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Text Part Number: 78EE117C99-1664024933

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1.636.1 Available under license
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That's all there is to it!

1.4 read-pkg 1.1.0

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1.5 use-latest 1.2.0

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1.6 python-certifi 2020.12.5

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ca-bundle.crt -- Bundle of CA Root Certificates

Certificate data from Mozilla as of: Thu Nov 3 19:04:19 2011#

This is a bundle of X.509 certificates of public Certificate Authorities (CA). These were automatically extracted from Mozilla's root certificates file (certdata.txt). This file can be found in the mozilla source tree:

<http://mxr.mozilla.org/mozilla/source/security/nss/lib/ckfw/builtins/certdata.txt?raw=1#>

It contains the certificates in PEM format and therefore can be directly used with curl / libcurl / php_curl, or with an Apache+mod_ssl webserver for SSL client authentication.

Just configure this file as the SSLCACertificateFile.#

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1.7 history 5.3.0

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1.8 ts-dedent 2.0.0

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1.9 @types/qs 6.9.6

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1.10 fraction.js 4.2.0

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1.11 zipp 3.15.0

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1.12 csstype 3.0.6

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1.13 qr-code 7.3.1

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1.14 restart-hooks 0.4.7

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1.15 @storybook/semver 7.3.2

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1.16 pinkie-promise 2.0.1

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1.17 aws-cli 1.18.104

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1.18 delta-spark 2.0.2

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1.19 async-timeout 3.0.1

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1.20 isodate 0.6.0

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1.21 focus-lock 0.9.2

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1.22 postcss-dir-pseudo-class 6.0.5

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1.23 @csstools/postcss-normalize-display-values 1.0.1

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1.24 cython 0.29.22

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1.25 prism-js 1.28.0

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1.27 urllib3 1.26.8

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1.28 envinfo 7.7.3

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1.29 gulp-util 3.0.1

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classes are based on the Python code in module "optimize.py" (version 0.5)
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<https://github.com/almende/vis>

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@version 4.20.1-SNAPSHOT

@date 2017-10-12

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Jackson JSON processor

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It is currently developed by a community of developers, as well as supported commercially by FasterXML.com.

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Eclipse

The following artifacts are EPL.

* org.eclipse.jetty.orbit:org.eclipse.jdt.core

The following artifacts are EPL and ASL2.

* org.eclipse.jetty.orbit:javax.security.auth.message

The following artifacts are EPL and CDDL 1.0.

* org.eclipse.jetty.orbit:javax.mail.glassfish

Oracle

The following artifacts are CDDL + GPLv2 with classpath exception.

<https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html>

* javax.servlet:javax.servlet-api

* javax.annotation:javax.annotation-api

* javax.transaction:javax.transaction-api

* javax.websocket:javax.websocket-api

Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.

<http://openjdk.java.net/legal/gplv2+ce.html>

OW2

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terms of <http://asm.ow2.org/license.html>

org.ow2.asm:asm-commons

org.ow2.asm:asm

Apache

The following artifacts are ASL2 licensed.

org.apache.taglibs:taglibs-standard-spec

org.apache.taglibs:taglibs-standard-impl

MortBay

The following artifacts are ASL2 licensed. Based on selected classes from following Apache Tomcat jars, all ASL2 licensed.

org.mortbay.jasper:apache-jsp

org.apache.tomcat:tomcat-jasper

org.apache.tomcat:tomcat-juli

org.apache.tomcat:tomcat-jsp-api

org.apache.tomcat:tomcat-el-api

org.apache.tomcat:tomcat-jasper-el

org.apache.tomcat:tomcat-api

org.apache.tomcat:tomcat-util-scan

org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el

org.apache.tomcat:tomcat-jasper-el

org.apache.tomcat:tomcat-el-api

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<https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html>

org.eclipse.jetty.toolchain:jetty-schemas

Assorted

The UnixCrypt.java code implements the one way cryptography used by Unix systems for simple password protection. Copyright 1996 Aki Yoshida, modified April 2001 by Iris Van den Broeke, Daniel Deville. Permission to use, copy, modify and distribute UnixCrypt for non-commercial or commercial purposes and without fee is granted provided that the copyright notice appears in all copies.

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Source Code

The project maintains the following source code repositories:

* <https://github.com/eclipse-ee4j/jaxb-api>

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None

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hadoop-hdfs-project/hadoop-hdfs/src/main/java/org/apache/hadoop/hdfs/server/datanode/checker/AbstractFuture.java
hadoop-hdfs-project/hadoop-hdfs/src/main/java/org/apache/hadoop/hdfs/server/datanode/checker/TimeoutFuture.java

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hadoop-mapreduce-project/hadoop-mapreduce-client/hadoop-mapreduce-client-nativetask/src/main/native/lz4/lz4.{c|h}
hadoop-hdfs-project/hadoop-hdfs-native-client/src/main/native/fuse-dfs/util/tree.h
hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-nodemanager/src/main/native/container-executor/impl/compat/{fstatat|openat|unlinkat}.h

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hadoop-common-project/hadoop-common/src/main/java/org/apache/hadoop/util/bloom/*
hadoop-common-project/hadoop-common/src/main/native/gtest/gtest-all.cc
hadoop-common-project/hadoop-common/src/main/native/gtest/include/gtest/gtest.h
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hadoop-hdfs-project/hadoop-hdfs-native-client/src/main/native/libhdfspp/third_party/protobuf/cpp_helpers.h
hadoop-hdfs-project/hadoop-hdfs-native-client/src/main/native/libhdfspp/third_party/gmock-1.7.0/*.*.{cc|h}
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hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-nodemanager/src/main/resources/TERMINAL

uriparser2 (hadoop-hdfs-project/hadoop-hdfs-native-client/src/main/native/libhdfspp/third_party/uriparser2)
hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-nodemanager/src/main/native/container-executor/impl/Utils/cJSON.[ch]

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asio-1.10.2 (hadoop-hdfs-project/hadoop-hdfs-native-client/src/main/native/libhdfspp/third_party/asio-1.10.2)
rapidxml-1.13 (hadoop-hdfs-project/hadoop-hdfs-native-client/src/main/native/libhdfspp/third_party/rapidxml-1.13)
tr2 (hadoop-hdfs-project/hadoop-hdfs-native-client/src/main/native/libhdfspp/third_party/tr2)

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hadoop-hdfs-project/hadoop-hdfs/src/main/webapps/static/json-bignum.js
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Other contributors include:

- * Jon Hartlaub (first versions of streaming reader/writer; unit tests)
- * Cedrik Lime: parallel LZF implementation

Various community members have contributed bug reports, and suggested minor fixes; these can be found from file "VERSION.txt" in SCM.

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1.33 pycparser 2.20

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pycparser -- A C parser in Python

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1.34 jsonpatch 1.25

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1.35 phonenumber 8.13.4

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1.42 cffi 1.14.0

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1.43 lasier 0.2.3

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1.45 jmespath 1.0.1

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1.46 postcss-initial 4.0.1

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1.47 automat 20.2.0

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1.50 amplitude-analytics 1.1.0

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1.51 css-has-pseudo 3.0.4

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1.53 networkx 2.4

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1.54 @storybook/addon-actions 6.3.11

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1.55 postcss-double-position-gradients 3.1.2

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1.56 mobx-react-lite 3.3.0

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1.59 postcss-overflow-shorthand 3.0.4

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1.60 qs 6.10.1

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1.61 global 4.4.0

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1.62 normalize-range 0.1.2

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1.63 @types/reach__router 1.3.7

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1.64 pytz 2023.3

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1.66 react-select 1.3.0

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1.67 botocore 1.17.17

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1.69 commonmark 0.9.1

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1.70 protobuf 4.21.7

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1.71 has-ansi 0.1.0

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1.72 urllib3 1.26.7

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1.73 pytz 2022.2.1

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1.74 mccabe 0.6.1

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1.76 zope_interface 5.2.0

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1.78 clone 0.2.0

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1.79 phonenumbers 8.12.5

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```
* /opt/cola/permits/1664027786_1683225609.2341096/0/phonenumbers-8-12-5-tar-gz/phonenumbers-8.12.5/phonenumbers/__init__.py  
* /opt/cola/permits/1664027786_1683225609.2341096/0/phonenumbers-8-12-5-tar-gz/phonenumbers-8.12.5/tests/shortnumberinfotest.py  
* /opt/cola/permits/1664027786_1683225609.2341096/0/phonenumbers-8-12-5-tar-gz/phonenumbers-
```

8.12.5/tests/phonumbermatchertest.py
* /opt/cola/permits/1664027786_1683225609.2341096/0/phonenumbers-8-12-5-tar-gz/phonenumbers-8.12.5/phonenumbers/shortnumberinfo.py
* /opt/cola/permits/1664027786_1683225609.2341096/0/phonenumbers-8-12-5-tar-gz/phonenumbers-8.12.5/tests/carriertest.py
* /opt/cola/permits/1664027786_1683225609.2341096/0/phonenumbers-8-12-5-tar-gz/phonenumbers-8.12.5/phonenumbers/asyoutypeformatter.py
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* /opt/cola/permits/1664027786_1683225609.2341096/0/phonenumbers-8-12-5-tar-gz/phonenumbers-8.12.5/tests/examplenumberstest.py
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* /opt/cola/permits/1664027786_1683225609.2341096/0/phonenumbers-8-12-5-tar-gz/phonenumbers-8.12.5/phonenumbers/phonumberutil.py
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* /opt/cola/permits/1664027786_1683225609.2341096/0/phonenumbers-8-12-5-tar-gz/phonenumbers-8.12.5/setup.py

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Metadata-Version: 2.1

Name: phonenumbers

Version: 8.12.5

Summary: Python version of Google's common library for parsing, formatting, storing and validating international phone numbers.

Home-page: <https://github.com/daviddrysdale/python-phonenumbers>

Author: David Drysdale

Author-email: dmd@lurklurk.org

License: Apache License 2.0

Description: phonenumbers Python Library

=====

[![Coverage Status](https://coveralls.io/repos/daviddrysdale/python-phonenumbers/badge.svg?branch=dev&service=github)](https://coveralls.io/github/daviddrysdale/python-phonenumbers?branch=dev)

This is a Python port of [Google's libphonenumber library](https://github.com/google/libphonenumber) It supports Python 2.5-2.7 and Python 3.x (in the same codebase, with no [2to3](http://docs.python.org/2/library/2to3.html) conversion needed).

Original Java code is Copyright (C) 2009-2015 The Libphonenumber Authors.

Release [HISTORY](python/HISTORY.md), derived from [upstream release notes](https://github.com/google/libphonenumber/blob/master/release_notes.txt).

Installation

Install using [pip](https://pypi.org/project/phonenumbers/) with:

...

```
pip install phonenumbers
```

...

Example Usage

The main object that the library deals with is a `PhoneNumber` object. You can create this from a string representing a phone number using the `parse` function, but you also need to specify the country that the phone number is being dialled from (unless the number is in E.164 format, which is globally unique).

```
``pycon
>>> import phonenumbers
>>> x = phonenumbers.parse("+442083661177", None)
>>> print(x)
Country Code: 44 National Number: 2083661177 Leading Zero: False
>>> type(x)
<class 'phonenumbers.phonenumber.PhoneNumber'>
>>> y = phonenumbers.parse("020 8366 1177", "GB")
>>> print(y)
Country Code: 44 National Number: 2083661177 Leading Zero: False
>>> x == y
True
>>> z = phonenumbers.parse("00 1 650 253 2222", "GB") # as dialled from GB, not a GB number
>>> print(z)
Country Code: 1 National Number: 6502532222 Leading Zero(s): False
...

```

The `PhoneNumber` object that `parse` produces typically still needs to be validated, to check whether

it's a *possible* number (e.g. it has the right number of digits) or a *valid* number (e.g. it's in an assigned exchange).

```
```pycon
>>> z = phonenumbers.parse("+120012301", None)
>>> print(z)
Country Code: 1 National Number: 20012301 Leading Zero: False
>>> phonenumbers.is_possible_number(z) # too few digits for USA
False
>>> phonenumbers.is_valid_number(z)
False
>>> z = phonenumbers.parse("+12001230101", None)
>>> print(z)
Country Code: 1 National Number: 2001230101 Leading Zero: False
>>> phonenumbers.is_possible_number(z)
True
>>> phonenumbers.is_valid_number(z) # NPA 200 not used
False
...

```

The `parse` function will also fail completely (with a `NumberParseException`) on inputs that cannot be uniquely parsed, or that can't possibly be phone numbers.

```
```pycon
>>> z = phonenumbers.parse("02081234567", None) # no region, no + => unparseable
Traceback (most recent call last):
  File "phonenumbers/phonenumutil.py", line 2350, in parse
    "Missing or invalid default region.")
phonenumbers.phonenumutil.NumberParseException: (0) Missing or invalid default region.
>>> z = phonenumbers.parse("gibberish", None)
Traceback (most recent call last):
  File "phonenumbers/phonenumutil.py", line 2344, in parse
    "The string supplied did not seem to be a phone number.")
phonenumbers.phonenumutil.NumberParseException: (1) The string supplied did not seem to be a phone
number.
...

```

Once you've got a phone number, a common task is to format it in a standardized format. There are a few formats available (under `PhoneNumberFormat`), and the `format_number` function does the formatting.

```
```pycon
>>> phonenumbers.format_number(x, phonenumbers.PhoneNumberFormat.NATIONAL)
'020 8366 1177'
>>> phonenumbers.format_number(x, phonenumbers.PhoneNumberFormat.INTERNATIONAL)
'+44 20 8366 1177'
>>> phonenumbers.format_number(x, phonenumbers.PhoneNumberFormat.E164)
'+442083661177'
...

```

If your application has a UI that allows the user to type in a phone number, it's nice to get the formatting applied as the user types. The `AsYouTypeFormatter`` object allows this.

```
```python
>>> formatter = phonenumbers.AsYouTypeFormatter("US")
>>> formatter.input_digit("6")
'6'
>>> formatter.input_digit("5")
'65'
>>> formatter.input_digit("0")
'650'
>>> formatter.input_digit("2")
'650 2'
>>> formatter.input_digit("5")
'650 25'
>>> formatter.input_digit("3")
'650 253'
>>> formatter.input_digit("2")
'650-2532'
>>> formatter.input_digit("2")
'(650) 253-22'
>>> formatter.input_digit("2")
'(650) 253-222'
>>> formatter.input_digit("2")
'(650) 253-2222'
```
```

Sometimes, you've got a larger block of text that may or may not have some phone numbers inside it. For this, the `PhoneNumberMatcher`` object provides the relevant functionality; you can iterate over it to retrieve a sequence of `PhoneNumberMatch`` objects. Each of these match objects holds a `PhoneNumber`` object together with information about where the match occurred in the original string.

```
```python
>>> text = "Call me at 510-748-8230 if it's before 9:30, or on 703-4800500 after 10am."
>>> for match in phonenumbers.PhoneNumberMatcher(text, "US"):
...     print(match)
...
PhoneNumberMatch [11,23) 510-748-8230
PhoneNumberMatch [51,62) 703-4800500
>>> for match in phonenumbers.PhoneNumberMatcher(text, "US"):
...     print(phonenumbers.format_number(match.number, phonenumbers.PhoneNumberFormat.E164))
...
+15107488230
+17034800500
```
```

You might want to get some information about the location that corresponds to a phone number. The



`geocoder.area_description_for_number` does this, when possible.`

```
```pycon
>>> from phonenumbers import geocoder
>>> ch_number = phonenumbers.parse("0431234567", "CH")
>>> geocoder.description_for_number(ch_number, "de")
'Zürich'
>>> geocoder.description_for_number(ch_number, "en")
'Zurich'
>>> geocoder.description_for_number(ch_number, "fr")
'Zurich'
>>> geocoder.description_for_number(ch_number, "it")
'Zurigo'
```
```

For mobile numbers in some countries, you can also find out information about which carrier originally owned a phone number.

```
```pycon
>>> from phonenumbers import carrier
>>> ro_number = phonenumbers.parse("+40721234567", "RO")
>>> carrier.name_for_number(ro_number, "en")
'Vodafone'
```
```

You might also be able to retrieve a list of time zone names that the number potentially belongs to.

```
```pycon
>>> from phonenumbers import timezone
>>> gb_number = phonenumbers.parse("+447986123456", "GB")
>>> timezone.time_zones_for_number(gb_number)
('Atlantic/Reykjavik', 'Europe/London')
```
```

For more information about the other functionality available from the library, look in the unit tests or in the original

[libphonenumber project](<https://github.com/google/libphonenumber>).

## Memory Usage

-----

The library includes a lot of metadata, giving a significant memory overhead. This metadata is loaded on-demand so that the memory footprint of applications that only use a subset of the library functionality is not adversely affected.

In particular:

- \* The geocoding metadata (which is over 100 megabytes) is only loaded on the first use of one of the geocoding functions (`geocoder.description_for_number``, `geocoder.description_for_valid_number`` or `geocoder.country_name_for_number``).
- \* The carrier metadata is only loaded on the first use of one of the mapping functions (`carrier.name_for_number`` or `carrier.name_for_valid_number``).
- \* The timezone metadata is only loaded on the first use of one of the timezone functions (`time_zones_for_number`` or `time_zones_for_geographical_number``).
- \* The normal metadata for each region is only loaded on the first time that metadata for that region is needed.

If you need to ensure that the metadata memory use is accounted for at start of day (i.e. that a subsequent on-demand

load of metadata will not cause a pause or memory exhaustion):

- \* Force-load the geocoding metadata by invoking `import phonenumbers.geocoder``.
- \* Force-load the carrier metadata by invoking `import phonenumbers.carrier``.
- \* Force-load the timezone metadata by invoking `import phonenumbers.timezone``.
- \* Force-load the normal metadata by calling `phonenumbers.PhoneMetadata.load_all()``.

The `phonenumberslite`` version of the package does not include the geocoding, carrier and timezone metadata, which can be useful if you have problems installing the main `phonenumbers`` package due to space/memory limitations.

#### Project Layout

-----

- \* The `python/`` directory holds the Python code.
- \* The `resources/`` directory is a copy of the `resources/`` directory from [libphonenumber](<https://github.com/google/libphonenumber/tree/master/resources>). This is not needed to run the Python code, but is needed when upstream changes to the master metadata need to be incorporated.
- \* The `tools/`` directory holds the tools that are used to process upstream changes to the master metadata.

Platform: Posix; MacOS X; Windows

Classifier: Development Status :: 5 - Production/Stable

Classifier: Intended Audience :: Developers

Classifier: License :: OSI Approved :: Apache Software License

Classifier: Operating System :: OS Independent

Classifier: Topic :: Communications :: Telephony

Classifier: Programming Language :: Python :: 2

Classifier: Programming Language :: Python :: 2.5

Classifier: Programming Language :: Python :: 2.6

Classifier: Programming Language :: Python :: 2.7

Classifier: Programming Language :: Python :: 3

Classifier: Programming Language :: Python :: 3.3

Classifier: Programming Language :: Python :: 3.4

Classifier: Programming Language :: Python :: 3.5  
Classifier: Programming Language :: Python :: 3.6  
Classifier: Programming Language :: Python :: 3.7  
Classifier: Programming Language :: Python :: Implementation :: CPython  
Classifier: Programming Language :: Python :: Implementation :: PyPy  
Description-Content-Type: text/markdown

Found in path(s):

\* /opt/cola/permits/1664027786\_1683225609.2341096/0/phonenumbers-8-12-5-tar-gz/phonenumbers-8.12.5/phonenumbers.egg-info/PKG-INFO  
\* /opt/cola/permits/1664027786\_1683225609.2341096/0/phonenumbers-8-12-5-tar-gz/phonenumbers-8.12.5/PKG-INFO

No license file was found, but licenses were detected in source scan.

```
Licensed under the Apache License, Version 2.0 (the "License");
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http://www.apache.org/licenses/LICENSE-2.0
distributed under the License is distributed on an "AS IS" BASIS,
```

Found in path(s):

\* /opt/cola/permits/1664027786\_1683225609.2341096/0/phonenumbers-8-12-5-tar-gz/phonenumbers-8.12.5/phonenumbers/geodata/data22.py  
\* /opt/cola/permits/1664027786\_1683225609.2341096/0/phonenumbers-8-12-5-tar-gz/phonenumbers-8.12.5/tests/testtzdata/\_\_init\_\_.py  
\* /opt/cola/permits/1664027786\_1683225609.2341096/0/phonenumbers-8-12-5-tar-gz/phonenumbers-8.12.5/phonenumbers/geodata/data13.py  
\* /opt/cola/permits/1664027786\_1683225609.2341096/0/phonenumbers-8-12-5-tar-gz/phonenumbers-8.12.5/phonenumbers/geodata/data17.py  
\* /opt/cola/permits/1664027786\_1683225609.2341096/0/phonenumbers-8-12-5-tar-gz/phonenumbers-8.12.5/tests/testcarrierdata/\_\_init\_\_.py  
\* /opt/cola/permits/1664027786\_1683225609.2341096/0/phonenumbers-8-12-5-tar-gz/phonenumbers-8.12.5/phonenumbers/geodata/data10.py  
\* /opt/cola/permits/1664027786\_1683225609.2341096/0/phonenumbers-8-12-5-tar-gz/phonenumbers-8.12.5/phonenumbers/shortdata/\_\_init\_\_.py  
\* /opt/cola/permits/1664027786\_1683225609.2341096/0/phonenumbers-8-12-5-tar-gz/phonenumbers-8.12.5/phonenumbers/geodata/\_\_init\_\_.py  
\* /opt/cola/permits/1664027786\_1683225609.2341096/0/phonenumbers-8-12-5-tar-gz/phonenumbers-8.12.5/phonenumbers/geodata/data14.py  
\* /opt/cola/permits/1664027786\_1683225609.2341096/0/phonenumbers-8-12-5-tar-gz/phonenumbers-8.12.5/tests/testgeodata/data0.py  
\* /opt/cola/permits/1664027786\_1683225609.2341096/0/phonenumbers-8-12-5-tar-gz/phonenumbers-8.12.5/phonenumbers/geodata/data26.py  
\* /opt/cola/permits/1664027786\_1683225609.2341096/0/phonenumbers-8-12-5-tar-gz/phonenumbers-8.12.5/phonenumbers/geodata/data3.py  
\* /opt/cola/permits/1664027786\_1683225609.2341096/0/phonenumbers-8-12-5-tar-gz/phonenumbers-8.12.5/phonenumbers/geodata/data12.py  
\* /opt/cola/permits/1664027786\_1683225609.2341096/0/phonenumbers-8-12-5-tar-gz/phonenumbers-

8.12.5/tests/testgeodata/\_\_init\_\_.py  
\* /opt/cola/permits/1664027786\_1683225609.2341096/0/phonenumbers-8-12-5-tar-gz/phonenumbers-8.12.5/phonenumbers/geodata/data25.py  
\* /opt/cola/permits/1664027786\_1683225609.2341096/0/phonenumbers-8-12-5-tar-gz/phonenumbers-8.12.5/phonenumbers/geodata/data9.py  
\* /opt/cola/permits/1664027786\_1683225609.2341096/0/phonenumbers-8-12-5-tar-gz/phonenumbers-8.12.5/phonenumbers/geodata/data15.py  
\* /opt/cola/permits/1664027786\_1683225609.2341096/0/phonenumbers-8-12-5-tar-gz/phonenumbers-8.12.5/phonenumbers/geodata/data19.py  
\* /opt/cola/permits/1664027786\_1683225609.2341096/0/phonenumbers-8-12-5-tar-gz/phonenumbers-8.12.5/phonenumbers/geodata/data28.py  
\* /opt/cola/permits/1664027786\_1683225609.2341096/0/phonenumbers-8-12-5-tar-gz/phonenumbers-8.12.5/phonenumbers/geodata/data0.py  
\* /opt/cola/permits/1664027786\_1683225609.2341096/0/phonenumbers-8-12-5-tar-gz/phonenumbers-8.12.5/phonenumbers/geodata/data7.py  
\* /opt/cola/permits/1664027786\_1683225609.2341096/0/phonenumbers-8-12-5-tar-gz/phonenumbers-8.12.5/phonenumbers/geodata/data1.py  
\* /opt/cola/permits/1664027786\_1683225609.2341096/0/phonenumbers-8-12-5-tar-gz/phonenumbers-8.12.5/tests/testcarrierdata/data0.py  
\* /opt/cola/permits/1664027786\_1683225609.2341096/0/phonenumbers-8-12-5-tar-gz/phonenumbers-8.12.5/phonenumbers/carrierdata/\_\_init\_\_.py  
\* /opt/cola/permits/1664027786\_1683225609.2341096/0/phonenumbers-8-12-5-tar-gz/phonenumbers-8.12.5/phonenumbers/geodata/data23.py  
\* /opt/cola/permits/1664027786\_1683225609.2341096/0/phonenumbers-8-12-5-tar-gz/phonenumbers-8.12.5/phonenumbers/geodata/data11.py  
\* /opt/cola/permits/1664027786\_1683225609.2341096/0/phonenumbers-8-12-5-tar-gz/phonenumbers-8.12.5/tests/testdata/\_\_init\_\_.py  
\* /opt/cola/permits/1664027786\_1683225609.2341096/0/phonenumbers-8-12-5-tar-gz/phonenumbers-8.12.5/phonenumbers/geodata/data5.py  
\* /opt/cola/permits/1664027786\_1683225609.2341096/0/phonenumbers-8-12-5-tar-gz/phonenumbers-8.12.5/phonenumbers/carrierdata/data2.py  
\* /opt/cola/permits/1664027786\_1683225609.2341096/0/phonenumbers-8-12-5-tar-gz/phonenumbers-8.12.5/phonenumbers/carrierdata/data0.py  
\* /opt/cola/permits/1664027786\_1683225609.2341096/0/phonenumbers-8-12-5-tar-gz/phonenumbers-8.12.5/phonenumbers/geodata/data6.py  
\* /opt/cola/permits/1664027786\_1683225609.2341096/0/phonenumbers-8-12-5-tar-gz/phonenumbers-8.12.5/phonenumbers/tzdata/data0.py  
\* /opt/cola/permits/1664027786\_1683225609.2341096/0/phonenumbers-8-12-5-tar-gz/phonenumbers-8.12.5/phonenumbers/geodata/data20.py  
\* /opt/cola/permits/1664027786\_1683225609.2341096/0/phonenumbers-8-12-5-tar-gz/phonenumbers-8.12.5/phonenumbers/geodata/data4.py  
\* /opt/cola/permits/1664027786\_1683225609.2341096/0/phonenumbers-8-12-5-tar-gz/phonenumbers-8.12.5/phonenumbers/geodata/data18.py  
\* /opt/cola/permits/1664027786\_1683225609.2341096/0/phonenumbers-8-12-5-tar-gz/phonenumbers-8.12.5/phonenumbers/geodata/data21.py  
\* /opt/cola/permits/1664027786\_1683225609.2341096/0/phonenumbers-8-12-5-tar-gz/phonenumbers-8.12.5/phonenumbers/geodata/data8.py  
\* /opt/cola/permits/1664027786\_1683225609.2341096/0/phonenumbers-8-12-5-tar-gz/phonenumbers-

8.12.5/phonenumbers/tzdata/\_\_init\_\_.py  
\* /opt/cola/permits/1664027786\_1683225609.2341096/0/phonenumbers-8-12-5-tar-gz/phonenumbers-8.12.5/tests/testtzdata/data0.py  
\* /opt/cola/permits/1664027786\_1683225609.2341096/0/phonenumbers-8-12-5-tar-gz/phonenumbers-8.12.5/phonenumbers/carrierdata/data1.py  
\* /opt/cola/permits/1664027786\_1683225609.2341096/0/phonenumbers-8-12-5-tar-gz/phonenumbers-8.12.5/phonenumbers/data/\_\_init\_\_.py  
\* /opt/cola/permits/1664027786\_1683225609.2341096/0/phonenumbers-8-12-5-tar-gz/phonenumbers-8.12.5/phonenumbers/geodata/data16.py  
\* /opt/cola/permits/1664027786\_1683225609.2341096/0/phonenumbers-8-12-5-tar-gz/phonenumbers-8.12.5/phonenumbers/geodata/data24.py  
\* /opt/cola/permits/1664027786\_1683225609.2341096/0/phonenumbers-8-12-5-tar-gz/phonenumbers-8.12.5/phonenumbers/geodata/data27.py  
\* /opt/cola/permits/1664027786\_1683225609.2341096/0/phonenumbers-8-12-5-tar-gz/phonenumbers-8.12.5/phonenumbers/geodata/data2.py

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## Introduction

-----

This file holds summarized version history for code changes affecting the phonenumbers library.

This file does not generally include descriptions of patch releases (vX.Y.Z => vX.Y.Z+1) unless there are significant changes to code, not just metadata changes. (Metadata updates are best checked [upstream]([https://github.com/google/libphonenumber/blob/master/release\\_notes.txt](https://github.com/google/libphonenumber/blob/master/release_notes.txt).)

## What's new in 8.12.0

-----

### Merge to

[upstream commit fbfc3639d484](<https://github.com/google/libphonenumber/commit/fbfc3639d484>); just metadata changes.

## What's new in 8.11.0

-----

### Merge to

[upstream commit ca195d5aff67](<https://github.com/google/libphonenumber/commit/ca195d5aff67>); just metadata changes.

## What's new in 8.10.8

-----

Merge to

[upstream commit aa1e7af6d637](<https://github.com/google/libphonenumber/commit/aa1e7af6d637>);

relevant code changes:

- Making the application of alternate formats when finding phone numbers in text in strict-grouping and exact-match mode depend on the leading digits for each rule. This was always assumed but never actually done. This means that the false positive rate will decrease but also that more valid numbers are skipped. A subsequent CL will update patterns to increase recall.

What's new in 8.10.3

-----

Merge to

[upstream commit 45953266d45d](<https://github.com/google/libphonenumber/commit/45953266d45d>);

relevant code changes:

- Better documentation for `length_of_national_destination_code` to emphasise that not every number has one.
- Removed unused code in the `AsYouTypeFormatter`: We no longer have numbers in formatting matching patterns, only `\d`.

What's new in 8.10.0

-----

Merge to

[upstream commit d62a8fb2b719](<https://github.com/google/libphonenumber/commit/d62a8fb2b719>);

relevant code changes:

- `AsYouTypeFormatter` changed to better choose between rules when dialling locally; previously we used the international rules when the national prefix was present since this would exclude the local-only rules. However, there are some numbers that are not internationally diallable that *do* use the national prefix, and this logic precluded formatting them correctly.

What's new in 8.9.12

-----

Merge to

[upstream commit d56bf9da349b](<https://github.com/google/libphonenumber/commit/d56bf9da349b>);

relevant code changes:

- Support Russian extension character `"` as a valid one while parsing the numbers.

What's new in 8.9.0

-----

Just metadata changes.

## What's new in 8.8.0

-----

### Merge to

[upstream commit 7e4e754bda09](<https://github.com/google/libphonenumber/commit/7e4e754bda09>);  
relevant code changes:

- Improve parsing logic to be smarter about national-prefix detection & stripping based on possible-lengths (`IS_POSSIBLE_LOCAL_ONLY`` and `INVALID_LENGTH``). Enables e.g. adding Iran short-codes starting with "096" without the need to hack IR's national prefix parsing config.

## What's new in 8.7.1

-----

### Merge to

[upstream commit fb9aa53ecfa3](<https://github.com/google/libphonenumber/commit/fb9aa53ecfa3>);  
relevant code changes:

- Documentation fix for `number_type``

## What's new in 8.7.0

-----

### Merge to

[upstream commit 1ad92eb35a44](<https://github.com/google/libphonenumber/commit/1ad92eb35a44>);  
relevant code changes:

- New method `supported_calling_codes()`` API to return all the calling codes that the library considers valid, both for geographical and non-geographical entities.
- Added `is_sms_service_for_region(numobj, region_dialing_from)`` API in short number info library. An SMS service is where the primary or only intended usage is to receive and/or send text messages (SMSs). This includes MMS as MMS numbers downgrade to SMS if the other party isn't MMS-capable. The `is_sms_service`` metadata is also serialized for the first time.
- Documentation update for private variables `_VALID_PUNCTUATION`` and `_SINGLE_INTERNATIONAL_PREFIX``, also renaming the latter from `_UNIQUE_INTERNATIONAL_PREFIX``.

## What's new in 8.6.0

-----

Merge to

[upstream commit 242a186f1fbf](https://github.com/google/libphonenumber/commit/242a186f1fbf);  
relevant code changes:

- Removing ``leading_zero_possible`` from the metadata and all the places it is referenced in the build and prod code. Will be removed from the metadata proto itself in a subsequent release. This should not affect users of the library - the only place it was used was ``format_in_original_format``, and only initially to try and avoid modifying the input number by removing/adding digits inadvertently. Now this is checked at the end of the method anyway. However slight formatting differences with this method on invalid numbers starting with 0s may be noticed in some countries.
- Updated the documentation for the ``is_number_geographical`` API.
- Small comment improvements for ``parse()`` method to point users at ``keep_raw_input`` parameter.
- Added a new enum for ``CountryCodeSource`` called ``UNSPECIFIED``. This is used as a default value, and will be returned if someone calls ``parse(keep_raw_input=False)`` and then ``.country_code_sourc`` on the result. If users want an actual value for this then they should call ``parse(keep_raw_input=True)`` instead; the values that were previously returned after calling this method will not change.
- Deletion of the possible number pattern in the `phonemetadata.proto` file and all generated code. This has not been used for a long time.

What's new in 8.5.0

-----

Merge to

[upstream commit 52cff9d8837f](https://github.com/google/libphonenumber/commit/52cff9d8837f);  
relevant code changes:

- Add ``can_be_internationally_dialled`` public API; This was already in JS.

What's new in 8.4.2

-----

Merge to

[upstream commit 9923d9211432](https://github.com/google/libphonenumber/commit/9923d9211432);  
relevant code changes:

- Small fix for possible out-of-bounds exception on RFC3966 input where no phone context was actually provided.

What's new in 8.4.1

-----



Merge to

[upstream commit 02dbc0921cf5](<https://github.com/google/libphonenumber/commit/02dbc0921cf5>);  
relevant code changes:

- Changing ``is_possible_with_reason`` to return the enums ``INVALID_LENGTH`` and ``IS_POSSIBLE_LOCAL_ONLY``, where these apply. ``is_possible_number`` continues to consider ``IS_POSSIBLE`` or ``IS_POSSIBLE_LOCAL_ONLY`` numbers as possible to dial.  
Announcement: <https://groups.google.com/d/msg/libphonenumber-discuss/sPhYzdzFCmg/6tYsS1f6DgAJ>
- Doc updates for ``region_code_for_number`` to clarify that it does not work for short-codes or invalid numbers.

What's new in 8.4.0

-----

Merge to

[upstream commit 77affd08f65f](<https://github.com/google/libphonenumber/commit/77affd08f65f>);  
relevant code changes:

- Doc changes to update references to ISO country codes to CLDR region codes, which are what we actually use. Notice in some of the mapper files the country code is still the ISO one, because it's used as part of a description of a language only (e.g. zh-TW vs zh-CN). Edited the language comments there since they can be two \*or\* three letters (c.f. fil for filipino). Also edited the comment for `leadingDigits` at the territory level in the ``phonemetadata.proto`` file.
- New API methods: ``is_possible_number_for_type`` and ``is_possible_number_for_type_with_reason``, along with ``supported_types_for_region`` and ``supported_types_for_non_geo_entity``. These allow you to query which types (e.g. Mobile) exist for a particular region, and work out if a number is possible for that type (this is a simple length check) rather than for the region as a whole.

What's new in 8.3.3

-----

Merge to

[upstream commit 46a38545ba01](<https://github.com/google/libphonenumber/commit/46a38545ba01>);  
relevant code changes:

- Doc fix for ``geocoder.py`` to explain the cases where an empty string might be returned.

What's new in 8.3.2

-----

Metadata changes only.

What's new in 8.3.1

-----

Merge to

[upstream commit 5507fdbf623f](<https://github.com/google/libphonenumber/commit/5507fdbf623f>);

relevant code changes:

- Making ``national_significant_number`` more robust in the face of malicious input. This now ignores the ``number_of_leading_zeros`` if they are less than zero.

What's new in 8.3.0

-----

Merge to

[upstream commit ad297a10ba19](<https://github.com/google/libphonenumber/commit/ad297a10ba19>);

relevant code changes:

- Added two new enum values to ``ValidationResult`` - ``IS_POSSIBLE_LOCAL_ONLY`` and ``INVALID_LENGTH``. Added more documentation to the existing values; see the docstrings for when these are going to be used. Note that the API for ``is_possible_number_with_reason`` has not yet been changed to return these values. ``IS_POSSIBLE_LOCAL_ONLY`` will be returned for some values which currently return ``IS_POSSIBLE``, and ``INVALID_LENGTH`` will be returned for some values which currently return ``TOO_LONG``.
- Fix for ``is_number_match`` to ignore the ``number_of_leading_zeros`` field when comparing numbers unless ``italian_leading_zero`` is ``True``, and to consider default values to match the same value when explicitly set for these two fields. This fix shouldn't be needed for anyone correctly creating phone numbers using "parse" as recommended.

What's new in 8.2.0

-----

Merge to

[upstream commit 3b16d6b06497](<https://github.com/google/libphonenumber/commit/3b16d6b06497>);

relevant code changes:

- Exported ``normalize_diallable_chars_only``. This method is already public in the C++ implementation. It has also now been added to the Javascript implementation.

What's new in 8.1.0

-----  
Merge to

[upstream commit c210dbca4e93](https://github.com/google/libphonenumber/commit/c210dbca4e93);  
relevant code changes:

- Introduced new `is_carrier_specific_for_region` API in `shortnumberinfo`.  
This determines whether the provided short code is carrier-specific or not when dialed from the given region.

What's new in 8.0.0  
-----

Merge to

[upstream commit 1eb06f31e1dd](https://github.com/google/libphonenumber/commit/1eb06f31e1dd);  
relevant code changes:

- Removing the ability for `.._for_region` methods in `shortnumberinfo.py` to work on strings, as well of phone number objects. These have been marked deprecated for months. Any users of these methods should call `phonenumbers.parse` first to create a `PhoneNumber` object, and pass this in.
- Support semicolon as extension character while parsing phone numbers. This is not applicable when you are trying to find the phone numbers.

What's new in 7.7.5  
-----

Merge to

[upstream commit e905483f87cf](https://github.com/google/libphonenumber/commit/e905483f87cf);  
relevant code changes:

- Removing all references to `possible_number_pattern` other than in the metadata itself.

What's new in 7.7.4  
-----

Merge to

[upstream commit fedbc7020703](https://github.com/google/libphonenumber/commit/fedbc7020703);  
code changes:

- GitHub project changes:

- Changed tag to `vX.Y.Z` from `release-X.Y.Z`; this may affect ports and derived projects.
- Metadata structure changes in XML file:
  - Mobile and Fixed-Line blocks are no longer assumed to inherit missing data from the GeneralDesc, but are treated like every other phone number type. This means that for the non-geographical country codes, like +800, the example number has been moved from generalDesc to the relevant number types, and the code in `getExampleNumberForNonGeoEntity` has been changed to look at these sub-types for an example number. This also means that the "NA" and "-1" blocks present in the metadata to indicate that no mobile or fixed-line numbers appear for the entity have been removed. There should no longer be an `exampleNumber` at the `generalDesc` level, but it should be present at every `PhoneNumberDesc` with data.
- Code changes:
  - Using new `possibleLengthInfo` to decide whether a short number is the right length or not. This could result in more specific results; whereas before, a number from length 3 to length 6 may have been deemed possible, now we may exclude a number of length 5.
  - Add hash (#) as a diallable character. Numbers with # in them will no longer have formatting applied in `format_n_original_format`, and `normalize_diallable_chars_only` now retains the # symbol.
  - `example_number_for_non_geo_entity` has been changed to look at the specific number types, not just the generalDesc, for the example numbers; this is a necessary change after the metadata structure change detailed above.

### What's new in 7.7.3

-----

#### Merge to

[upstream commit ad0ce0c94501](<https://github.com/google/libphonenumber/commit/ad0ce0c94501>);  
code changes:

- Fixed `phonemetadata.py` not to merge from a `NumberFormat`'s unset bool `national_prefix_optional_when_formatting`.

### What's new in 7.7.2

-----

#### Merge to

[upstream commit 2d0d216f6032](<https://github.com/google/libphonenumber/commit/2d0d216f6032>);  
code changes:

- Stop setting empty `preferred_domestic_carrier_code`, and if we are passed such a number then treat the empty field as if unset.

## What's new in 7.7.1

-----

Merge to

[upstream commit 8c37310deb49](<https://github.com/google/libphonenumber/commit/8c37310deb49>);

code changes:

- Switching the internal implementation of ``is_possible_number`` and related functions to use the new ``possibleLengths`` metadata. This affects a lot of countries, making ``is_possible_number`` more restrictive as more precise data is available. It also affects parsing ambiguous and invalid numbers, as we decide whether to strip a possible national prefix (1) or country code based on the length of the number and whether it is possible before or after this.
- Formatting, naming and comment tweaks to follow style guide
- Removal of unneeded ``_can_be_geocoded`` method in the ``timezone.py`` file, using ``phonenumberutil.py`` instead

## What's new in 7.7.0

-----

Merge to

[upstream commit 1ec4d341c3cd](<https://github.com/google/libphonenumber/commit/1ec4d341c3cd>);

no code changes that affect the Python version so this is just a version bump to stay in sync with upstream.

## What's new in 7.6.1

-----

Merge to [upstream commit 7cc500f588db](<https://github.com/google/libphonenumber/commit/7cc500f588db>);  
code changes:

- ``phonemetadata.py`` has two more fields to represent possible lengths of phone numbers. Changed ``buildmetadatafromxml.py`` to alter the way that metadata about possible-lengths information is consumed when constructing metadata to populate these.  
[Discussion list email](<https://groups.google.com/forum/#!topic/libphonenumber-discuss/75TOpTFVi08>)

## What's new in 7.6.0

-----

Merge to [upstream commit ddf60b1c175e](<https://github.com/google/libphonenumber/commit/ddf60b1c175e>);  
code changes:

- Made ``is_number_geographical()`` public and added ``is_number_type_geographical()``,

and changed the geocoder to use this when checking whether to give a detailed answer or country-level only.

#### What's new in 7.5.0

-----

Merge to [upstream commit 3f83454ed62b](<https://github.com/google/libphonenumber/commit/3f83454ed62b>); no code changes that affect the Python version so this is just a version bump to stay in sync with upstream.

#### What's new in 7.4.0

-----

Merge to [upstream commit 598b9a4f89d6](<https://github.com/google/libphonenumber/commit/598b9a4f89d6>); no code changes that affect the Python version so this is just a version bump to stay in sync with upstream.

#### What's new in 7.3.0

-----

Merge to [upstream commit d933631fbf15](<https://github.com/google/libphonenumber/commit/d933631fbf15>); code changes:

- Added support for `region\_code` of None in `example_number_for_type()`
- Added `invalid_example_number()`
- Improvements to docstring for `parse` method
- Update `is_number_geographical` to return true for geographical mobile numbers.

#### What's new in 7.2.0

-----

Merge to [upstream commit ab5e61acc087ec9f5](<https://github.com/google/libphonenumber/commit/ab5e61acc087ec9f5>), which is 7.2.1 (7.2.0 had an immediate problem on release); upstream changelog mentions no code changes, but the Java implementation includes a change to use nano protobufs.

#### What's new in 7.1.0

-----

Merge to [upstream commit 903ac5de5b6e1112](<https://github.com/google/libphonenumber/commit/903ac5de5b6e1112>); upstream code changelog:

- Only upstream code change doesn't affect python version  
(New `MetadataSource` implementation that reads from a single metadata file with all regions' phone number metadata.)

#### What's new in 7.0.0

-----

Merge to upstream Subversion revision 715; upstream code changelog:

- New APIs for ShortNumberInfo. The old APIs have been deprecated and will be removed in an upcoming release.

#### What's new in 6.3.0

-----

Merge to upstream Subversion revision 703; upstream code changelog:

- Changing the offline geocoder to not return any country at all if the number could belong to multiple countries
- Removing obsolete code that treated countries with no metadata as valid.

#### What's new in 6.2.0

-----

Merge to upstream Subversion revision 674; upstream code changelog:

- Better exclusion of dates when matching phone numbers from text.
- Handle phone input in RFC3966 with missing tel: prefix

#### What's new in 6.1.0

-----

Merge to upstream Subversion revision 656; upstream code changelog:

- Adding MetadataLoader support to allow custom metadata loading from alternative sources (should have no visible impact to users).
- Fixing bug where digits could be lost in as-you-type formatting and formatting patterns incorrectly applied.

#### What's new in 6.0.0a

-----

Split geographic metadata into chunks.  
Generate separate `phonenumbers-lite` package.  
(No upstream changes.)

#### What's new in 6.0.0

-----

Removed beta status.

Merge up to upstream Subversion revision 650; upstream code changelog:

- Better support for detecting phone numbers in text that are beside each other
- Change to how Japanese numbers beginning with "00" are modelled, with the side-effect that the maximum possible number length has been extended by 1.
- Handle `StringIndexOutOfBoundsException` in the `AsYouTypeFormatter` when the national prefix that was extracted was not found in the prefix. This affected countries with very long carrier codes, such as Korea.
- Removal of some of the author attributions - contributions to be tracked in CONTRIBUTORS file.

#### What's new in 5.9b1

-----

The codebase now supports Python 2.5-2.7 and Python 3.x out of the box, without needing 2to3 conversion.

The top-level module no longer exports the following functions:

- `country\_name\_for\_number`
- `description\_for\_number`
- `description\_for\_valid\_number`

These functions now need to be imported via the `phonenumbers.geocoder` submodule.

The short number functions have been renamed:

- `is\_possible\_short\_number\_object` becomes `is\_possible\_short\_number`
- `is\_possible\_short\_number` becomes `is\_possible\_short\_number\_for\_object`
- `is\_valid\_short\_number\_object` becomes `is\_valid\_short\_number`
- `is\_valid\_short\_number` becomes `is\_valid\_short\_number\_for\_object`
- `expected\_cost` becomes `expected\_cost\_for\_region`, and there's a new `expected\_cost` function that takes a `PhoneNumber` object.

Merge up to upstream Subversion revision 622; upstream code changelog:



- Adding support for numbers with multiple Italian leading zeros, by adding a field to the phone number proto to allow an arbitrary number of leading zeros, and supporting this when parsing, validating and formatting.
- Adding more functionality to ``ShortNumberInfo`` -> such as ``GetExpectedCostForRegion``.
- Fix for parsing short numbers that start with the national prefix.
- Updating ``FormatNumberForMobileDialing`` to work with short numbers.
- Stop finding Israeli 4-digit "star" numbers in text when no star is in fact present.
- Bug fix for finding phone numbers where the area code was also part of the country calling code.

#### What's new in 5.8b1

-----

Rename ``shortnumberutil.py`` to ``shortnumberinfo.py``.

Merge up to upstream Subversion revision 603; upstream code changelog:

- Renamed ``ShortNumberUtil`` to ``ShortNumberInfo`` -> the former class is now deprecated and will be deleted in a later release. At the moment it just delegates to ``ShortNumberInfo``.
- New methods in the ``ShortNumberInfo`` API - ``isCarrierSpecific``, singleton interface, ``isPossibleShortNumber``, ``isValidShortNumber``, ``getShortNumberCost``. Note this is an experimental API at the moment and subject to change.
- Bug fixes:
  - `AsYouTypeFormatting``: 3-digit numbers can be formatted as a group where appropriate
  - `AsYouTypeFormatting``: Countries with an optional national prefix were considered before to have always entered it, resulting in bugs where numbers without the national prefix were not properly formatted.
  - Numbers in Chile that overlap with emergency numbers are no longer marked as connecting to them
  - Not requiring the NDC to be alone for countries where there is no national prefix in strict grouping when extracting phone numbers

#### What's new in 5.7b2

-----

Fix ``setup.py`` to include new ``.shortdata`` sub-package.

#### What's new in 5.7b1

-----

Merge up to upstream Subversion revision 594; upstream code changelog:

- Improve phone number extraction recall.
- Add support for loading short number metadata.

#### What's new in 5.6b1

-----

Merge up to upstream Subversion revision 579; upstream code changelog:

- Fix for as-you-type-formatting bug affecting countries with no national prefix formatting rule, such as China.

#### What's new in 5.5b1

-----

Merge up to upstream Subversion revision 574; upstream code changelog:

- Changed internal initialization code and made more fields final.  
Note that we now throw an exception if an attempt is made to set the metadata more than once (which should only happen during testing).
- Fix problem with `formatNumberForMobileDialing`` for HU and CL.

#### What's new in 5.4b1

-----

Load metadata on demand rather than all at start of day.

Merge up to upstream Subversion revision 557; upstream code changelog:

- Switch `formatNumberForMobileDialing`` to prefer national format to international format when the number is dialed from the same region the phone number is from.

#### What's new in 5.3b1

-----

Merge up to upstream Subversion revision 550; upstream code changelog:

- Handling UAN numbers in Argentina better when dialling them locally from a mobile

#### What's new in 5.2b1

-----

Merge up to upstream Subversion revision 532.

What's new in 5.1b1

-----

Merge up to upstream Subversion revision 516.

What's new in 5.0b2

-----

Merge up to upstream Subversion revision 500.  
The upstream metadata at r489 didn't match the  
generated Java code in 5.0; this upstream revision  
fixed the mismatch.

What's new in 5.0b1

-----

Merge up to upstream Subversion revision 492.

What's new in 4.9b1

-----

Merge up to upstream Subversion revision 469.

What's new in 4.8b1

-----

Merge up to upstream Subversion revision 441.

What's new in 4.7b1

-----

Merge up to upstream Subversion revision 431.

What's new in 4.6b1

-----

Merge up to upstream Subversion revision 426.  
Reinstated Python 2.5 support, accidentally broken since 4.3.

What's new in 4.5b1

-----

Merge up to upstream Subversion revision 419.

What's new in 4.4b1

-----

Merge up to upstream Subversion revision 411.

What's new in 4.3b1

-----

Merge up to upstream Subversion revision 396.  
Adjust codebase to allow 2to3 generation of Python 3.x version.

What's new in 4.2b1

-----

Merge up to upstream Subversion revision 383.

What's new in 4.1b1

-----

Merge up to upstream Subversion revision 374.

What's new in 4.0b1

-----

Merge up to upstream Subversion revision 362.

What's new in 3.9b1

-----

Merge up to upstream Subversion revision 353.

What's new in 3.8b1

-----

Merge up to upstream Subversion revision 325.  
Includes initial simplistic implementation of geocoding functionality.

What's new in 3.7b1

-----

Merge up to upstream Subversion revision 289 (but geocoding functionality not yet ported).

What's new in 3.6b1

-----

Merge up to upstream Subversion revision 277 (but geocoding functionality not yet ported).

Require Python 2.5, to allow import unicodedata.

What's new in 3.5b2

-----

Fix GH-3: crash in `parse()` for number with blank metadata

What's new in 3.5b1

-----

Merge up to upstream Subversion revision 213.

What's new in 3.4b1

-----

Merge up to upstream Subversion revision 205.

Changed version marker from a to b.

More unit test coverage

What's new in 3.3a1

-----

Merge up to upstream Subversion revision 190.

What's new in 3.2a1

-----

Merge up to upstream version 3.3, Subversion revision 171.

What's new in 3.1a1

-----  
Initial port of libphonenumber, from <http://code.google.com/p/libphonenumber/>

This version based on upstream version 3.2, Subversion revision 166 of:  
<http://libphonenumber.googlecode.com/svn/trunk/java>

Found in path(s):

\* /opt/cola/permits/1664027786\_1683225609.2341096/0/phonenumbers-8-12-5-tar-gz/phonenumbers-8.12.5/HISTORY.md

## 1.80 boto3 1.14.27

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## 1.81 path-to-regexp 1.8.0

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## 1.83 postcss-place 7.0.5

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## 1.85 boto3 1.17.106

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## 1.87 space-separated-tokens 1.1.5

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## 1.88 gsm0338 1.0a1

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Metadata-Version: 1.1

Name: gsm0338

Version: 1.0a1  
Summary: GSM 03.38 codec  
Home-page: <https://github.com/dsch/gsm0338>  
Author: David Schneider  
Author-email: [david.schneider@postmail.ch](mailto:david.schneider@postmail.ch)  
License: MIT  
Description: gsm0338

=====

.. image:: <https://travis-ci.org/dsch/gsm0338.svg?branch=master>  
:target: <https://travis-ci.org/dsch/gsm0338>

Python Codec for ETSI GSM 03.38

Example

-----

Decode GSM 03.38 encoded bytes:

```
>>> import gsm0338
>>> b'\x1b(\x1b'.decode('gsm0338')
u'{'
```

Mapping source

-----

`GSM 03.38 to Unicode`\_

**\*\*Exception:\*\*** Uppercase C-cedilla glyph at 0x09 as in ETSI GSM standard

.. \_GSM 03.38 to Unicode: <ftp://ftp.unicode.org/Public/MAPPINGS/ETSI/GSM0338.TXT>

Platform: UNKNOWN

Classifier: Development Status :: 3 - Alpha

Classifier: Intended Audience :: Developers

Classifier: License :: OSI Approved :: MIT License

Classifier: Operating System :: OS Independent

Classifier: Programming Language :: Python :: 2.6

Classifier: Programming Language :: Python :: 2.7

Classifier: Programming Language :: Python :: 3.3

Classifier: Programming Language :: Python :: 3.4

Classifier: Topic :: Software Development :: Libraries

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\* /opt/cola/permits/1664030207\_1683227720.751913/0/gsm0338-1-0a1-1-tar-gz/gsm0338-1.0a1/PKG-INFO

\* /opt/cola/permits/1664030207\_1683227720.751913/0/gsm0338-1-0a1-1-tar-gz/gsm0338-1.0a1/gsm0338.egg-info/PKG-INFO

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# 1.89 opentelemetry\_propagator\_b3 1.1.0

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```
select
```

```
[![Build Status](http://img.shields.io/travis/zenorocha/select/master.svg?style=flat)](https://travis-ci.org/zenorocha/select)
```

Programmatically select the text of a HTML element.

```
Install
```

You can get it on npm.

```
...
```

```
npm install select --save
```

```
...
```

Or bower, too.

```
...
```

```
bower install select --save
```

```
...
```



If you're not into package management, just [download a ZIP](<https://github.com/zenorocha/select/archive/master.zip>) file.

```
Usage
```

```
Standalone
```

```
```html  
<script src="dist/select.js"></script>  
```
```

```
```js  
var input = document.querySelector('input');  
var result = select(input);  
```
```

```
Browserify
```

```
```js  
var select = require('select');  
```
```

```
```js  
var input = document.querySelector('input');  
var result = select(input);  
```
```

```
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```

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\* /opt/cola/permits/1664027343\_1683224539.358101/0/zenorocha-select-v1-1-2-0-g53e4a21-1-tar-gz/zenorocha-select-53e4a21/readme.md

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## 1.92 @storybook/client-logger 6.3.11

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## 1.93 types-color-name 1.1.1

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## 1.94 urllib3 1.26.15

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# 1.97 opentelemetry\_instrumentation\_dbapi

## 0.20b0

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# Contributors

- \* [Fernando Montoya](https://github.com/montogeek) - Use separate lodash functions instead of the core package. Faster to install this way.
- \* [Jonathan Felchlin](https://github.com/GreenGremlin) - Smart merging for loaders.
- \* [David Gmez](https://github.com/davegomez) - Performance and cosmetic improvements.
- \* [siready](https://github.com/siready) - Extend `merge.smart` to support `include/exclude`.
- \* [C.J. Winslow](https://github.com/Whoaa512) - Make `merge.smart` `include/exclude` to work correctly with `loader`.
- \* [Artem Zakharchenko](https://github.com/blackrabbit99) - Fix `merge.smart` duplication so that if `include` exists, it will merge.
- \* [Matt Shwery](https://github.com/mshwery) - If `exclude` is the same while using `merge.smart`, merge `loaders`.
- \* [Lucretiel](https://github.com/Lucretiel) - Added a more generic test to describe merge behavior better.
- \* [Christian Hoffmeister](https://github.com/choffmeister) - Fix `merge.smart` behavior so that it checks against full loader names instead of just the first letter.
- \* [Ken Powers](https://github.com/knpwrs) - Changed Travis icon to use SVG (scales better).
- \* [Kyle Herock](https://github.com/rockmacaca) - Improved webpack 2 support, avoided concatenating loaders if the first matching entry's include/exclude doesn't match. #41
- \* [Steven Haddix](https://github.com/steven-haddix) - Clarify description. #42
- \* [Artem Sapegin](https://github.com/sapegin) - Tweaked customizeArray/customizeObject example. #60
- \* [Dan Kirkham](https://github.com/heresydev) - `merge.multiple`. #74
- \* [Ahmed Elmehri](https://github.com/ahmehri) - Add `customizeArray` and `customizeObject` examples. #93
- \* [Flvio](https://github.com/flviorocks) - Maintenance - Update lodash, #97, #98

- \* [Amy Lynn](https://github.com/Amy-Lynn) - Smart merge should maintain existing loader order. #79, #101
- \* [Daniel Ruf](https://github.com/DanielRuf) - Remove bitHound from the README as it closed down. #102
- \* [Adrien Harnay](https://github.com/adrienharnay) - Update README to comply with webpack API. #108
- \* [Pawe Lula](https://github.com/desfero) - Support `oneOf` at `merge.smart`. #111

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# 1.114 python-requests 2.25.1

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## 1.115 css-prefers-color-scheme 6.0.3

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## 1.119 opentelemetry-exporter-otlp-proto-http 1.8.0

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## 1.120 postcss-value-parser 4.2.0

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## 1.122 responses 0.10.15

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## 1.123 zipp 3.1.0

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# 1.124 google-api-core 2.11.0

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# 1.126 execa 5.0.0

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## 1.127 dom-helpers 5.2.1

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# 1.129 react-textarea-autosize 8.3.3

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## 1.133 camelcase 2.1.1

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# 1.134 @webpack-cli/serve 1.2.2

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# 1.135 pyparsing 2.4.7

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# 1.136 backoff 1.10.0

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## 1.138 python-certifi 2022.12.7

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Just configure this file as the SSLCACertificateFile.#

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## 1.140 d3 3.5.17

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## 1.141 pydantic 1.9.0

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## 1.142 pyasn1 0.4.6

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ASN.1 library for Python

-----

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This is a free and open source implementation of ASN.1 types and codecs as a Python package. It has been first written to support particular protocol (SNMP) but then generalized to be suitable for a wide range of protocols based on

[ASN.1 specification](https://www.itu.int/rec/dologin\_pub.asp?lang=e&id=T-REC-X.208-198811-W!!PDF-E&type=items).

Features

-----

- \* Generic implementation of ASN.1 types (X.208)
- \* Standards compliant BER/CER/DER codecs
- \* Dumps/loads ASN.1 structures from Python types
- \* 100% Python, works with Python 2.4 up to Python 3.7
- \* MT-safe
- \* Contributed ASN.1 compiler [Asn1ate](https://github.com/kimgr/asn1ate)

Why using pyasn1

-----

ASN.1 solves the data serialisation problem. This solution was

designed long ago by the wise Ancients. Back then, they did not have the luxury of wasting bits. That is why ASN.1 is designed to serialise data structures of unbounded complexity into something compact and efficient when it comes to processing the data.

That probably explains why many network protocols and file formats still rely on the 30+ years old technology. Including a number of high-profile Internet protocols and file formats.

Quite a number of books cover the topic of ASN.1. [Communication between heterogeneous systems](<http://www.oss.com/asn1/dubuisson.html>) by Olivier Dubuisson is one of those high quality books freely available on the Internet.

The pyasn1 package is designed to help Python programmers tackling network protocols and file formats at the comfort of their Python prompt. The tool struggles to capture all aspects of a rather complicated ASN.1 system and to represent it on the Python terms.

How to use pyasn1

-----

With pyasn1 you can build Python objects from ASN.1 data structures. For example, the following ASN.1 data structure:

```
```bash
Record ::= SEQUENCE {
  id    INTEGER,
  room  [0] INTEGER OPTIONAL,
  house [1] INTEGER DEFAULT 0
}
```
```

Could be expressed in pyasn1 like this:

```
```python
class Record(Sequence):
    componentType = NamedTypes(
        NamedType('id', Integer()),
        OptionalNamedType(
            'room', Integer().subtype(
                implicitTag=Tag(tagClassContext, tagFormatSimple, 0)
            )
        ),
        DefaultedNamedType(
            'house', Integer(0).subtype(
                implicitTag=Tag(tagClassContext, tagFormatSimple, 1)
            )
        )
    )
```
```



```
)
)
)
...

```

It is in the spirit of ASN.1 to take abstract data description and turn it into a programming language specific form. Once you have your ASN.1 data structure expressed in Python, you can use it along the lines of similar Python type (e.g. ASN.1 `SET` is similar to Python `dict`, `SET OF` to `list`):

```
```python  
>>> record = Record()  
>>> record['id'] = 123  
>>> record['room'] = 321  
>>> str(record)  
Record:  
id=123  
room=321  
>>>  
...  

```

Part of the power of ASN.1 comes from its serialisation features. You can serialise your data structure and send it over the network.

```
```python  
>>> from pyasn1.codec.der.encoder import encode
>>> substrate = encode(record)
>>> hexdump(substrate)
00000: 30 07 02 01 7B 80 02 01 41
...

```

Conversely, you can turn serialised ASN.1 content, as received from network or read from a file, into a Python object which you can introspect, modify, encode and send back.

```
```python  
>>> from pyasn1.codec.der.decoder import decode  
>>> received_record, rest_of_substrate = decode(substrate, asn1Spec=Record())  
>>>  
>>> for field in received_record:  
>>>     print('{} is {}'.format(field, received_record[field]))  
id is 123  
room is 321  
house is 0  
>>>  
>>> record == received_record  
True  

```

```
>>> received_record.update(room=123)
>>> substrate = encode(received_record)
>>> hexdump(substrate)
00000: 30 06 02 01 7B 80 01 7B
...
```

The pyasn1 classes struggle to emulate their Python prototypes (e.g. int, list, dict etc.). But ASN.1 types exhibit more complicated behaviour.

To make life easier for a Pythonista, they can turn their pyasn1 classes into Python built-ins:

```
```python
>>> from pyasn1.codec.native.encoder import encode
>>> encode(record)
{'id': 123, 'room': 321, 'house': 0}
...
```
```

Or vice-versa -- you can initialize an ASN.1 structure from a tree of Python objects:

```
```python
>>> from pyasn1.codec.native.decoder import decode
>>> record = decode({'id': 123, 'room': 321, 'house': 0}, asn1Spec=Record())
>>> str(record)
Record:
id=123
room=321
>>>
...
```
```

With ASN.1 design, serialisation codecs are decoupled from data objects, so you could turn every single ASN.1 object into many different serialised forms. As of this moment, pyasn1 supports BER, DER, CER and Python built-ins codecs. The extremely compact PER encoding is expected to be introduced in the upcoming pyasn1 release.

More information on pyasn1 APIs can be found in the [documentation](<http://snmplabs.com/pyasn1/>), compiled ASN.1 modules for different protocols and file formats could be found in the pyasn1-modules [repo](<https://github.com/etingof/pyasn1-modules>).

How to get pyasn1

The pyasn1 package is distributed under terms and conditions of 2-clause BSD [license](<http://snmplabs.com/pyasn1/license.html>). Source code is freely available as a GitHub [repo](<https://github.com/etingof/pyasn1>).

You could `pip install pyasn1` or download it from [PyPI](https://pypi.org/project/pyasn1).

If something does not work as expected,

[open an issue](https://github.com/etingof/pyasn1/issues) at GitHub or

post your question [on Stack Overflow](https://stackoverflow.com/questions/ask)

or try browsing pyasn1

[mailing list archives](https://sourceforge.net/p/pyasn1/mailman/pyasn1-users/).

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* /opt/cola/permits/1664030577_1683571700.4530535/0/pwaruna-pyasn1-v0-4-6-0-gbb6b6e2-tar-gz/pwaruna-pyasn1-bb6b6e2/tests/base.py
* /opt/cola/permits/1664030577_1683571700.4530535/0/pwaruna-pyasn1-v0-4-6-0-gbb6b6e2-tar-gz/pwaruna-pyasn1-bb6b6e2/tests/codec/cer/test_decoder.py
* /opt/cola/permits/1664030577_1683571700.4530535/0/pwaruna-pyasn1-v0-4-6-0-gbb6b6e2-tar-gz/pwaruna-pyasn1-bb6b6e2/pyasn1/type/useful.py
* /opt/cola/permits/1664030577_1683571700.4530535/0/pwaruna-pyasn1-v0-4-6-0-gbb6b6e2-tar-gz/pwaruna-pyasn1-bb6b6e2/pyasn1/type/error.py
```

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ASN.1 library for Python

=====

```
.. toctree::
   :maxdepth: 1
```

Abstract Syntax Notation One (ASN.1)

http://en.wikipedia.org/wiki/Abstract_Syntax_Notation_1) is a technology for exchanging structured data in a universally understood, hardware agnostic way. Many industrial, security and telephony applications heavily rely on ASN.1.

The `pyasn1` <https://pypi.org/project/pyasn1/> library implements ASN.1 support in pure-Python.

What is ASN.1

ASN.1 is a large, arguably over-engineered and extremely old data modelling and serialisation tool. It is probably among the first serialisation protocols in the history of computer science and technology.

ASN.1 started its life over 30 years ago as a serialisation mechanism for the first electronic mail (known as X.400). Later on it was split off the e-mail application and become a stand-alone tech still being actively supported by its designers and widely used in industry and technology.

Since then ASN.1 is sort of haunted by its relations with the OSI model -- the first, unsuccessful, version of the Internet. You can read many interesting [discussions](https://news.ycombinator.com/item?id=8871453) <https://news.ycombinator.com/item?id=8871453> on that topic.

In the following years, generations of software engineers tackled the serialisation problem many times. We can see that in Google's `ProtoBuffers` <https://developers.google.com/protocol-buffers/> or `FlatBuffers` <https://google.github.io/flatbuffers/>, for example. Interestingly, many new takes on binary protocol design do not depart far from ASN.1 from technical perspective. It's more of a matter of striking a balance between processing overhead, wire format overhead and human readability.

Looking at what ASN.1 has to offer, it has three loosely coupled parts:

- * Data types: the standard introduces a collection of basic data types (integers, bits, strings, arrays and records) that can be used for describing arbitrarily complex, nested data structures.
- * Serialisation protocols: the above data structures could be converted into a series of octets for storage or transmission over the wire as well as recovered back into their structured form. The system is fully agnostic to hardware architectures differences.
- * Schema language: ASN.1 data structures could be described in terms of a schema language for ASN.1 compiler to turn it into platform-specific implementation.

ASN.1 applications

Being an old and generally successful standard, ASN.1 is widely adopted for many uses. To give you an example, these technologies use ASN.1 for their data exchange needs:

- * Signaling standards for the public switched telephone network (SS7 family)
- * Network management standards (SNMP, CMIP)
- * Directory standards (X.500 family, LDAP)
- * Public Key Infrastructure standards (X.509, etc.)
- * PBX control (CSTA)
- * IP-based Videoconferencing (H.323 family)
- * Biometrics (BIP, CBEFF, ACBio)
- * Intelligent transportation (SAE J2735)
- * Cellular telephony (GSM, GPRS/EDGE, UMTS, LTE)

ASN.1 gotchas

Apparently, ASN.1 is hard to implement properly. Quality open-source ASN.1 tools are rare, but ad-hoc implementations are numerous. Judging from the ``statistics <http://cve.mitre.org/cgi-bin/cvekey.cgi?keyword=ASN.1>`` on discovered security vulnerabilities, many people have implemented ASN.1 parsers and oftentimes fell victim to its edge cases.

On the bright side, ASN.1 has been around for a long time, it is well understood and security reviewed.

Documentation

```
.. toctree::
  :maxdepth: 2

  /pyasn1/contents
```

Use case

```
.. toctree::
  :maxdepth: 2

  /example-use-case
```

Download & Install

```
.. toctree::
    :maxdepth: 2
```

/download

Changes

All changes and release history is maintained in changelog. There you could also download the latest unreleased pyasn1 tarball containing the latest fixes and improvements.

```
.. toctree::
    :maxdepth: 1
```

/changelog

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```
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```

/license

Getting help

Please, file your `issues` <<https://github.com/etingof/pyasn1/issues>>`_` and `PRs` <<https://github.com/etingof/pyasn1/pulls>>`_` at GitHub. Alternatively, you could ask for help at `Stack Overflow` <<http://stackoverflow.com/questions/tagged/pyasn1>>`_` or search `pyasn1-users` <<https://lists.sourceforge.net/lists/listinfo/pyasn1-users>>`_` mailing list archive.

Books on ASN.1

The pyasn1 implementation is largely based on reading up the following awesome books:

- * `ASN.1 - Communication between heterogeneous systems` <<http://www.oss.com/asn1/dubuisson.html>>`_` by Olivier Dubuisson
- * `ASN.1 Complete` <<http://www.oss.com/asn1/resources/books-whitepapers-pubs/larmouth-asn1-book.pdf>>`_` by

Prof John Larmouth

Here you can get the official standards which is hard to read:

* `ITU standards <<http://www.itu.int/ITU-T/studygroups/com17/languages/X.680-X.693-0207w.zip>>` _

On the other end of the readability spectrum, here is a quick and sweet write up:

* `A Layman's Guide to a Subset of ASN.1, BER, and DER <<ftp://ftp.rsasecurity.com/pub/pkcs/ascii/layman.asc>>` _
by Burton S. Kaliski

If you are working with ASN.1, we'd highly recommend reading a proper book on the subject.

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* /opt/cola/permits/1664030577_1683571700.4530535/0/pwaruna-pyasn1-v0-4-6-0-gbb6b6e2-tar-gz/pwaruna-pyasn1-bb6b6e2/docs/source/contents.rst

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```
* /opt/cola/permits/1664030577_1683571700.4530535/0/pwaruna-pyasn1-v0-4-6-0-gbb6b6e2-tar-gz/pwaruna-pyasn1-bb6b6e2/docs/source/license.rst
```

1.143 haversine 2.7.0

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1.144 source-map 0.1.34

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1.145 postcss-media-minmax 5.0.0

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1.146 qs 6.11.1

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1.147 typing-extensions 4.1.1

1.147.1 Available under license :

A. HISTORY OF THE SOFTWARE

=====

Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see <http://www.cwi.nl>) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see <http://www.cnri.reston.va.us>) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see <http://www.zope.com>). In 2001, the Python Software Foundation (PSF, see <http://www.python.org/psf/>) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

All Python releases are Open Source (see <http://www.opensource.org> for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

| Release | Derived from | Year | Owner | GPL-compatible? (1) |
|----------------|--------------|-----------|------------|---------------------|
| 0.9.0 thru 1.2 | | 1991-1995 | CWI | yes |
| 1.3 thru 1.5.2 | 1.2 | 1995-1999 | CNRI | yes |
| 1.6 | 1.5.2 | 2000 | CNRI | no |
| 2.0 | 1.6 | 2000 | BeOpen.com | no |
| 1.6.1 | 1.6 | 2001 | CNRI | yes (2) |
| 2.1 | 2.0+1.6.1 | 2001 | PSF | no |
| 2.0.1 | 2.0+1.6.1 | 2001 | PSF | yes |
| 2.1.1 | 2.1+2.0.1 | 2001 | PSF | yes |
| 2.1.2 | 2.1.1 | 2002 | PSF | yes |
| 2.1.3 | 2.1.2 | 2002 | PSF | yes |
| 2.2 and above | 2.1.1 | 2001-now | PSF | yes |

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(2) According to Richard Stallman, 1.6.1 is not GPL-compatible, because its license has a choice of law clause. According to CNRI, however, Stallman's lawyer has told CNRI's lawyer that 1.6.1 is "not incompatible" with the GPL.

Thanks to the many outside volunteers who have worked under Guido's

direction to make these releases possible.

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1.148 more-iterools 7.2.0

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1.149 postcss-page-break 3.0.4

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1.150 autoprefixer 10.4.12

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1.151 character-entities 1.2.4

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1.152 store2 2.12.0

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```

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*
* When quota is reached on a storage area, this shifts incoming values to
* fake storage, so they last only as long as the page does. This is useful
* because it is more burdensome for localStorage to recover from quota errors
* than incomplete caches. In other words, it is wiser to rely on store.js
* never complaining than never missing data. You should already be checking
* the integrity of cached data on every page load.
*
* Status: BETA
*/
```

Found in path(s):

```
* /opt/cola/permits/1664027829_1683224680.8220472/0/store2-2-12-0-2-tgz/package/src/store.overflow.js
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```
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* http://www.opensource.org/licenses/mit-license.php
* http://www.gnu.org/licenses/gpl.html
*
* Makes it easy to watch for storage events by enhancing the events and
* allowing binding to particular keys and/or namespaces.
*
* // listen to particular key storage events (yes, this is namespace sensitive)
```

```
* store.on('foo', function listenToFoo(e){ console.log('foo was changed:', e); });
* store.off('foo', listenToFoo);
*
* // listen to all storage events
* store.on(function storageEvent(e){ console.log('web storage:', e); });
* store.off(storageEvent);
*
* Status: ALPHA - useful, if you don't mind incomplete browser support for events
*/
```

Found in path(s):

```
* /opt/cola/permits/1664027829_1683224680.8220472/0/store2-2-12-0-2-tgz/package/src/store.bind.js
No license file was found, but licenses were detected in source scan.
```

```
/**
```

```
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* http://www.gnu.org/licenses/gpl.html
*
* store.remainingSpace();// returns remainingSpace value (if browser supports it)
* store.charsUsed();// returns length of all data when stringified
* store.charsLeft([true]);// tests how many more chars we can fit (crash threat!)
* store.charsTotal([true]);// charsUsed + charsLeft, duh.
*
* TODO: byte/string conversions
*
* Status: ALPHA - changing API *and* crash threats :)
*/
```

Found in path(s):

```
* /opt/cola/permits/1664027829_1683224680.8220472/0/store2-2-12-0-2-tgz/package/src/store.measure.js
No license file was found, but licenses were detected in source scan.
```

```
/**
```

```
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*
* Store nothing when storage is not supported.
*
* Status: ALPHA - due to being of doubtful propriety
*/
```

Found in path(s):

```
* /opt/cola/permits/1664027829_1683224680.8220472/0/store2-2-12-0-2-tgz/package/src/store.onlyreal.js
```

No license file was found, but licenses were detected in source scan.

```
/**
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 * http://www.gnu.org/licenses/gpl.html
 *
 * Declarative, persistent DOM content.
 *
 * <input store name="whatever">
 * <div store="somekey" store-area="session" contenteditable>Some content</div>
 *
 * Status: BETA - uses store, doesn't extend it, deserves standalone project
 */
```

Found in path(s):

```
*/opt/cola/permits/1664027829_1683224680.8220472/0/store2-2-12-0-2-tgz/package/src/store.dom.js
```

No license file was found, but licenses were detected in source scan.

```
/**
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 *
 * Adds shortcut for safely applying all available Array functions to stored values. If there is no
 * value, the functions will act as if upon an empty one. If there is a non, array value, it is put
 * into an array before the function is applied. If the function results in an empty array, the
 * key/value is removed from the storage, otherwise the array is restored.
 *
 * store.push('array', 'a', 1, true);// == store.set('array', (store.get('array')||[]).push('a', 1, true));
 * store.indexOf('array', true);// === store.get('array').indexOf(true)
 *
 * This will add all functions of Array.prototype that are specific to the Array interface and have no
 * conflict with existing store functions.
 *
 * Status: BETA - useful, but adds more functions than reasonable
 */
```

Found in path(s):

```
*/opt/cola/permits/1664027829_1683224680.8220472/0/store2-2-12-0-2-tgz/package/src/store.array.js
```

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```
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```

```
* http://www.gnu.org/licenses/gpl.html
*
* Bind handlers to quota errors:
* store.quota(function(e, area, key, str) {
*   console.log(e, area, key, str);
* });
* If a handler returns true other handlers are not called and
* the error is suppressed.
*
* Think quota errors will never happen to you? Think again:
* http://spin.atomicobject.com/2013/01/23/ios-private-browsing-localstorage/
* (this affects sessionStorage too)
*
* Status: ALPHA - API could use unbind feature
*/
```

Found in path(s):

```
*/opt/cola/permits/1664027829_1683224680.8220472/0/store2-2-12-0-2-tgz/package/src/store.quota.js
No license file was found, but licenses were detected in source scan.
```

```
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* http://www.gnu.org/licenses/gpl.html
*
* Creates a store API that uses cookies for each key/value pair.
*
* Status: BETA - unsupported, useful, needs testing
*/
```

Found in path(s):

```
*/opt/cola/permits/1664027829_1683224680.8220472/0/store2-2-12-0-2-tgz/package/src/store.cookies.js
No license file was found, but licenses were detected in source scan.
```

```
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*
* If fake (non-persistent) storage for users stuck in the dark ages
* does not satisfy you, this will replace it with the a reasonable imitator for their
* pathetic, incompetent browser. Note that the session replacement here is potentially
* insecure as it uses window.name without any fancy protections.
*
* Status: BETA - unsupported, useful, needs testing & refining
*/
```

Found in path(s):

```
* /opt/cola/permits/1664027829_1683224680.8220472/0/store2-2-12-0-2-tgz/package/src/store.old.js
```

No license file was found, but licenses were detected in source scan.

```
/**
```

```
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```

```
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```

```
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```

```
* http://www.gnu.org/licenses/gpl.html
```

```
*/
```

Found in path(s):

```
* /opt/cola/permits/1664027829_1683224680.8220472/0/store2-2-12-0-2-tgz/package/src/store2.js
```

No license file was found, but licenses were detected in source scan.

```
/**
```

```
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```

```
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```

```
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```

```
* http://www.gnu.org/licenses/gpl.html
```

```
*
```

```
* Allows use of the 'overwrite' param on set calls to give an enforced expiration date
```

```
* without breaking existing 'overwrite' functionality.
```

```
*
```

```
* Status: BETA - useful, needs testing
```

```
*/
```

Found in path(s):

```
* /opt/cola/permits/1664027829_1683224680.8220472/0/store2-2-12-0-2-tgz/package/src/store.cache.js
```

No license file was found, but licenses were detected in source scan.

```
/**
```

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```

```
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```

```
* http://www.gnu.org/licenses/gpl.html
```

```
*
```

```
* Makes it easy to watch for storage events by enhancing the events and
```

```
* allowing binding to particular keys and/or namespaces.
```

```
*
```

```
* // listen to particular key storage events (yes, this is namespace sensitive)
```

```
* store.on('foo', function listenToFoo(e){ console.log('foo was changed:', e); });
```

```
* store.off('foo', listenToFoo);
```

```
*
```

```
* // listen to all storage events (also namespace sensitive)
```

```
* store.on(function storageEvent(e){ console.log('web storage:', e); });
```

```
* store.off(storageEvent);
```


*
* Status: BETA - useful, if you aren't using IE8 or worse
*/

Found in path(s):

* /opt/cola/permits/1664027829_1683224680.8220472/0/store2-2-12-0-2-tgz/package/dist/app.js
* /opt/cola/permits/1664027829_1683224680.8220472/0/store2-2-12-0-2-tgz/package/src/store.on.js
No license file was found, but licenses were detected in source scan.

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*
* Adds an 'async' duplicate on all store APIs that
* performs storage-related operations asynchronously and returns
* a promise.
*
* Status: BETA - works great, but lacks justification for existence
*/

Found in path(s):

* /opt/cola/permits/1664027829_1683224680.8220472/0/store2-2-12-0-2-tgz/package/src/store.async.js
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*
* Adds getters and setters for existing keys (and newly set() ones) to enable dot access to stored properties.
*
* store.dot('foo','bar');// makes store aware of keys (could also do store.set('foo',''))
* store.foo = { is: true };// == store.set('foo', { is: true });
* console.log(store.foo.is);// logs 'true'
*
* This will not create accessors that conflict with existing properties of the store object.
*
* Status: ALPHA - good, but ``store.foo.is=false`` won't persist while looking like it would
*/

Found in path(s):

* /opt/cola/permits/1664027829_1683224680.8220472/0/store2-2-12-0-2-tgz/package/src/store.dot.js
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/**

```
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* http://www.gnu.org/licenses/gpl.html
*
* Creates a store API that uses a single cookie as the backing storage.
*
* Status: BETA - unsupported, useful, needs testing
*/
```

Found in path(s):

```
*/opt/cola/permits/1664027829_1683224680.8220472/0/store2-2-12-0-2-tgz/package/src/store.cookie.js
No license file was found, but licenses were detected in source scan.
```

```
/**
```

```
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* http://www.gnu.org/licenses/gpl.html
*
* Allows retrieval of values from within a stored object.
*
* store.set('foo', { is: { not: { quite: false } } });
* console.log(store.get('foo.is.not.quite')); // logs false
*
* Status: ALPHA - currently only supports get, inefficient, uses eval
*/
```

Found in path(s):

```
*/opt/cola/permits/1664027829_1683224680.8220472/0/store2-2-12-0-2-tgz/package/src/store.deep.js
```

1.153 find-root 1.1.0

1.153.1 Available under license :

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1.154 ballpark 1.1.1

1.154.1 Available under license :

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Metadata-Version: 1.1

Name: ballpark

Version: 1.1.1

Summary: Better human-readable numbers.

Home-page: <https://github.com/debrouwere/python-ballpark/>

Author: Stijn Debrouwere

Author-email: stijn@debrouwere.org

License: ISC

Download-URL: <https://www.github.com/debrouwere/python-ballpark/tarball/master>

Description: Ballpark

=====

When people think of human-readable numbers, they think of rounding to two decimal places and adding a thousands separator. 12,214.17 is already quite an improvement over 12214.16666667. But standard formats for human-readable numbers still have various flaws:

- even with a thousands separator, at a glance you might easily mistake a billion for a trillion
- even when rounding, an amount like 12,214.17 dollars is a lot of number noise for communicating 12.2K
- scientific notation leads to exponents like ``1.22e4`` which are hard to interpret because we're used to working with thousands, millions and billions – orders of magnitudes that are multiples of three
- when comparing multiple measurements of the same underlying variable, like the yearly sales numbers for 2010-2015, it's annoying to have some numbers in thousands and other numbers in millions – you want consistency so that digits in the same position are of the same magnitude

``python-ballpark`` introduces *business notation*, an offshoot of *engineering notation* <https://en.wikipedia.org/wiki/Engineering_notation>`, for producing better human-readable numbers.

Install with ``pip install ballpark`` or ``pip3 install ballpark``.

What it looks like

```

-----
+-----+-----+-----+-----+
+
| numbers          | rounded          | engineering notation | **business notation** |
+=====+=====+=====+=====+
| 11234.22, 233000.55, 1175125.2 | 11,234.22, 233,000.55, 1,175,125.2 | 11.2E+3, 233E+3, 1.18E+6 | 11K,
233K, 1,180K |
+-----+-----+-----+-----+
+
| 111, 1111.23, 1175125.234 | 111, 1,111.23, 1,175,125.23 | 111, 1.11E+3, 1.18E+6 | 0.11K,
1.11K, 1,180.00K |
+-----+-----+-----+-----+
+

```

How to use it

.. code:: python

```

>>> from ballpark import human, scientific, engineering, business
>>> business([11234.22, 233000.55, 1175125.2])
['11K', '233K', '1,180K']
>>>
>>> # or use the shortcut functions
>>> from ballpark import H, S, E, B
>>> B([11234.22, 233000.55, 1175125.2])
['11K', '233K', '1,180K']
>>>
>>> # all notations accept single numbers too, but then we can't guarantee
>>> # that all numbers will have the same prefix (kilo, mega etc.)
>>> [B(value) for value in [11234.22, 233000.55, 1175125.2]]
['11.2K', '233K', '1.18M']

```

How it works

.. code:: python

```

business(values, precision=3, prefix=True, prefixes=SI, statistic=median)

```

- ****precision:**** the amount of significant digits; when necessary, ``business`` will round beyond the decimal sign as well: in the example above, ``1175125.2`` was turned into ``1,180K`` rather than ``1,175K`` to retain only 3 significant digits
- ****prefix:**** whether to use SI prefixes like m (milli), K (kilo) and so on instead of scientific exponents like E+03

- **prefixes:** a mapping of orders of magnitude to prefixes, e.g. `{-3: 'm', 3: 'K'}`, allowing you to customize the prefixes, for example using B for billion instead of T for tera
- **statistic:** a function which returns the reference number that will determine the order of magnitude for the entire group of numbers, so that for example when the reference number is 233K, smaller numbers like 11K won't have any more numbers after the comma and numbers like 1,180K won't jump an order of magnitude to 1.18M; the median often works well, but if you want more precision for small outliers, try `ballpark.statistics.Q1` or even Python's builtin `min`

Keywords: human numbers format notation scientific engineering

Platform: UNKNOWN

Classifier: Development Status :: 4 - Beta

Classifier: Intended Audience :: Developers

Classifier: License :: OSI Approved :: ISC License (ISCL)

Classifier: Operating System :: OS Independent

Classifier: Topic :: Scientific/Engineering :: Information Analysis

Classifier: Topic :: Utilities

Classifier: Programming Language :: Python

Classifier: Programming Language :: Python :: 2

Classifier: Programming Language :: Python :: 2.7

Classifier: Programming Language :: Python :: 3

Classifier: Programming Language :: Python :: 3.4

Found in path(s):

* /opt/cola/permits/1664031050_1683227896.1951535/0/ballpark-1-1-1-1-tar-gz/ballpark-1.1.1/PKG-INFO

* /opt/cola/permits/1664031050_1683227896.1951535/0/ballpark-1-1-1-1-tar-gz/ballpark-1.1.1/ballpark.egg-info/PKG-INFO

1.155 is-dom 1.1.0

1.155.1 Available under license :

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1.156 he 0.5.0

1.156.1 Available under license :

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1.157 jmespath 0.10.0

1.157.1 Available under license :

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1.158 @emotion/memoize 0.7.4

1.158.1 Available under license :

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1.159 shellingham 1.5.0.post1

1.159.1 Available under license :

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1.160 react-router-dom 6.3.0

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1.161 opentelemetry-semantic-conventions

0.27b0

1.161.1 Available under license :

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Version 2.0, January 2004

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1.163 python-requests 2.22.0

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1.165 ws 7.4.5

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1.167 py4j 0.10.9

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1.168 cfn-lint 0.33.0

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1.171 decimal.js 10.2.1

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1.173 react-input-autosize 2.2.2

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1.174 python-dateutil 2.8.2

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1.175 cfn-lint 0.23.3

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1.176 setuptools-scm 3.5.0

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1.177 typing-extensions 3.7.4.3

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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see <http://www.cwi.nl>) in the Netherlands

as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see <http://www.cnri.reston.va.us>) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see <http://www.zope.com>). In 2001, the Python Software Foundation (PSF, see <http://www.python.org/psf/>) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

All Python releases are Open Source (see <http://www.opensource.org> for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

| Release | Derived from | Year | Owner | GPL-compatible? (1) |
|----------------|--------------|-----------|------------|---------------------|
| 0.9.0 thru 1.2 | | 1991-1995 | CWI | yes |
| 1.3 thru 1.5.2 | 1.2 | 1995-1999 | CNRI | yes |
| 1.6 | 1.5.2 | 2000 | CNRI | no |
| 2.0 | 1.6 | 2000 | BeOpen.com | no |
| 1.6.1 | 1.6 | 2001 | CNRI | yes (2) |
| 2.1 | 2.0+1.6.1 | 2001 | PSF | no |
| 2.0.1 | 2.0+1.6.1 | 2001 | PSF | yes |
| 2.1.1 | 2.1+2.0.1 | 2001 | PSF | yes |
| 2.1.2 | 2.1.1 | 2002 | PSF | yes |
| 2.1.3 | 2.1.2 | 2002 | PSF | yes |
| 2.2 and above | 2.1.1 | 2001-now | PSF | yes |

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1.178 opentelemetry_api 1.1.0

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1.179 persistent 0.16.0

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1.180 classnames 2.2.6

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1.181 wewidth 0.2.4

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Markus Kuhn -- 2007-05-26 (Unicode 5.0)

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1.182 scheduler 0.15.0

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1.183 webauthn 1.6.0

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1.184 aiobotocore 1.4.2

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1.187 @emotion/core 10.3.1

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1.190 cryptography 3.4.7

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1.193 aioboto3 9.2.2

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1.194 comma-separated-tokens 1.0.8

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1.195 character-reference-invalid 1.1.4

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1.196 tenacity 8.0.1

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1.197 mini-create-react-context 0.4.1

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1.198 @emotion/styled-base 10.3.0

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1.199 jmespath 0.9.4

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1.200 freezegun 0.3.12

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1.201 good-listener 1.2.2

1.201.1 Available under license :

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```
# good-listener
```

```
![Build Status](http://img.shields.io/travis/zenorocha/good-listener/master.svg?style=flat)(https://travis-ci.org/zenorocha/good-listener)
```

> A more versatile way of adding & removing event listeners.

```
![good listener](https://cloud.githubusercontent.com/assets/398893/10718224/dfc25f6c-7b2a-11e5-9d3d-75b35e8603c8.jpg)
```

```
## Install
```

You can get it on npm.

```
...
```

```
npm install good-listener --save
```

```
...
```

Or bower, too.

```
...
```

```
bower install good-listener --save
```

```
...
```

If you're not into package management, just [download a ZIP](https://github.com/zenorocha/good-listener/archive/master.zip) file.

Setup

Node (Browserify)

```
```js
var listen = require('good-listener');
```
```

Browser (Standalone)

```
```html
<script src="dist/good-listener.js"></script>
```
```

Usage

Add an event listener

By passing a string selector [(see full demo)](https://github.com/zenorocha/good-listener/blob/master/demo/selector.html).

```
```js
listen('.btn', 'click', function(e) {
 console.log(e);
});
```
```

Or by passing a HTML element [(see full demo)](https://github.com/zenorocha/good-listener/blob/master/demo/node.html).

```
```js
var logo = document.getElementById('logo');

listen(logo, 'click', function(e) {
 console.log(e);
});
```
```

Or by passing a list of HTML elements [(see full demo)](https://github.com/zenorocha/good-listener/blob/master/demo/nodelist.html).

```
```js
var anchors = document.querySelectorAll('a');
```

```
listen(anchors, 'click', function(e) {
 console.log(e);
});
```
```







Remove an event listener

By calling the `destroy` function that returned from previous operation [(see full demo)](<https://github.com/zenorocha/good-listener/blob/master/demo/destroy.html>).

```
```js
var listener = listen('.btn', 'click', function(e) {
 console.log(e);
});

listener.destroy();
```
```

Browser Support

|  |  |  |  |  |  |
|:---:|:---:|:---:|:---:|:---:|:---:|
| Latest | Latest | Latest | 9+ | Latest | Latest |

License

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Found in path(s):

* /opt/cola/permits/1664030723_1683227526.5179126/0/zenorocha-good-listener-v1-2-2-0-g74ff637-1-tar-gz/zenorocha-good-listener-2f88fc4/readme.md

1.202 py 1.8.1

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1.203 hypothesis 5.3.1

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1.204 jed 1.1.0

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```
// under the MIT License by Jeremy Ashkenas.
```

```
/**
```

```
    sprintf() for JavaScript 0.7-beta1
```

```
    http://www.diveintojavascript.com/projects/javascript-sprintf
```

```
    Copyright (c) Alexandru Marasteanu <alexaholic [at] gmail (dot) com>
```

```
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```

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*/

Found in path(s):

* /opt/cola/permits/1664030041_1683224613.8293264/0/jed-1-1-0-1-tgz/package/jed.js

1.205 webencodings 0.5.1

1.205.1 Available under license :

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Metadata-Version: 1.1

Name: webencodings

Version: 0.5.1

Summary: Character encoding aliases for legacy web content

Home-page: <https://github.com/SimonSapin/python-webencodings>

Author: Geoffrey Sneddon

Author-email: me@gsnedders.com

License: BSD

Description: python-webencodings

=====

This is a Python implementation of the `WHATWG Encoding standard`
<<http://encoding.spec.whatwg.org/>>`_.

* Latest documentation: <http://packages.python.org/webencodings/>

* Source code and issue tracker:

<https://github.com/gsnedders/python-webencodings>

* PyPI releases: <http://pypi.python.org/pypi/webencodings>

* License: BSD

* Python 2.6+ and 3.3+

In order to be compatible with legacy web content

when interpreting something like ``Content-Type: text/html; charset=latin1``,

tools need to use a particular set of aliases for encoding labels

as well as some overriding rules.

For example, ``US-ASCII`` and ``iso-8859-1`` on the web are actually

aliases for ``windows-1252``, and an UTF-8 or UTF-16 BOM takes precedence

over any other encoding declaration.

The Encoding standard defines all such details so that implementations do

not have to reverse-engineer each other.

This module has encoding labels and BOM detection,

but the actual implementation for encoders and decoders is Python's.

Platform: UNKNOWN

Classifier: Development Status :: 4 - Beta
Classifier: Intended Audience :: Developers
Classifier: License :: OSI Approved :: BSD License
Classifier: Programming Language :: Python
Classifier: Programming Language :: Python :: 2
Classifier: Programming Language :: Python :: 2.6
Classifier: Programming Language :: Python :: 2.7
Classifier: Programming Language :: Python :: 3
Classifier: Programming Language :: Python :: 3.3
Classifier: Programming Language :: Python :: 3.4
Classifier: Programming Language :: Python :: 3.5
Classifier: Programming Language :: Python :: 3.6
Classifier: Programming Language :: Python :: Implementation :: CPython
Classifier: Programming Language :: Python :: Implementation :: PyPy
Classifier: Topic :: Internet :: WWW/HTTP

Found in path(s):

```
* /opt/cola/permits/1664030552_1683224506.7313783/0/webencodings-0-5-1-1-tar-gz/webencodings-0.5.1/webencodings.egg-info/PKG-INFO
```

```
* /opt/cola/permits/1664030552_1683224506.7313783/0/webencodings-0-5-1-1-tar-gz/webencodings-0.5.1/PKG-INFO
```

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```
from setuptools import setup, find_packages
import io
from os import path
import re
```

```
VERSION = re.search("VERSION = '([^\s]+)'", io.open(
    path.join(path.dirname(__file__), 'webencodings', '__init__.py'),
    encoding='utf-8'
).read().strip()).group(1)
```

```
LONG_DESCRIPTION = io.open(
    path.join(path.dirname(__file__), 'README.rst'),
    encoding='utf-8'
).read()
```

```
setup(
    name='webencodings',
    version=VERSION,
    url='https://github.com/SimonSapin/python-webencodings',
    license='BSD',
    author='Simon Sapin',
    author_email='simon.sapin@exyr.org',
    maintainer='Geoffrey Sneddon',
```

```

maintainer_email='me@gsnedders.com',
description='Character encoding aliases for legacy web content',
long_description=LONG_DESCRIPTION,
classifiers=[
    'Development Status :: 4 - Beta',
    'Intended Audience :: Developers',
    'License :: OSI Approved :: BSD License',
    'Programming Language :: Python',
    'Programming Language :: Python :: 2',
    'Programming Language :: Python :: 2.6',
    'Programming Language :: Python :: 2.7',
    'Programming Language :: Python :: 3',
    'Programming Language :: Python :: 3.3',
    'Programming Language :: Python :: 3.4',
    'Programming Language :: Python :: 3.5',
    'Programming Language :: Python :: 3.6',
    'Programming Language :: Python :: Implementation :: CPython',
    'Programming Language :: Python :: Implementation :: PyPy',
    'Topic :: Internet :: WWW/HTTP',
],
packages=find_packages(),
)

```

Found in path(s):

```
* /opt/cola/permits/1664030552_1683224506.7313783/0/webencodings-0-5-1-1-tar-gz/webencodings-0.5.1/setup.py
```

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Found in path(s):

```
* /opt/cola/permits/1664030552_1683224506.7313783/0/webencodings-0-5-1-1-tar-gz/webencodings-0.5.1/webencodings/x_user_defined.py
* /opt/cola/permits/1664030552_1683224506.7313783/0/webencodings-0-5-1-1-tar-gz/webencodings-0.5.1/webencodings/tests.py
* /opt/cola/permits/1664030552_1683224506.7313783/0/webencodings-0-5-1-1-tar-gz/webencodings-0.5.1/webencodings/labels.py
* /opt/cola/permits/1664030552_1683224506.7313783/0/webencodings-0-5-1-1-tar-gz/webencodings-0.5.1/webencodings/__init__.py
```

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```
webencodings.mklabels
~~~~~
```

Regenerate the webencodings.labels module.

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"""

```
import json
try:
    from urllib import urlopen
except ImportError:
    from urllib.request import urlopen
```

```
def assert_lower(string):
    assert string == string.lower()
    return string
```

```
def generate(url):
```

```
    parts = ["\
```

"""

```
webencodings.labels
```

```
~~~~~
```

Map encoding labels to their name.

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"""

```
# XXX Do not edit!
```

```
# This file is automatically generated by mklabels.py
```

```
LABELS = {
```

```
"""
```

```
    labels = [
```

```
        (repr(assert_lower(label)).lstrip('u'),
```

```
         repr(encoding['name']).lstrip('u'))
```

```
        for category in json.loads(urlopen(url).read().decode('ascii'))
```

```
        for encoding in category['encodings']
```

```
        for label in encoding['labels']]
```

```
    max_len = max(len(label) for label, name in labels)
```

```
    parts.extend(
```

```
        ' %s:%s %s,\n' % (label, ' ' * (max_len - len(label)), name)
```

```
        for label, name in labels)
```

```
    parts.append('}')
```

```
    return ".join(parts)
```



```
if __name__ == '__main__':
    print(generate('http://encoding.spec.whatwg.org/encodings.json'))
```

Found in path(s):

* /opt/cola/permits/1664030552_1683224506.7313783/0/webencodings-0-5-1-1-tar-gz/webencodings-0.5.1/webencodings/mklabels.py

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python-webencodings

=====

This is a Python implementation of the `WHATWG Encoding standard`
<<http://encoding.spec.whatwg.org/>>` _.

- * Latest documentation: <http://packages.python.org/webencodings/>
- * Source code and issue tracker:
<https://github.com/gsnedders/python-webencodings>
- * PyPI releases: <http://pypi.python.org/pypi/webencodings>
- * License: BSD
- * Python 2.6+ and 3.3+

In order to be compatible with legacy web content when interpreting something like ``Content-Type: text/html; charset=latin1``, tools need to use a particular set of aliases for encoding labels as well as some overriding rules.

For example, ``US-ASCII`` and ``iso-8859-1`` on the web are actually aliases for ``windows-1252``, and an UTF-8 or UTF-16 BOM takes precedence over any other encoding declaration.

The Encoding standard defines all such details so that implementations do not have to reverse-engineer each other.

This module has encoding labels and BOM detection, but the actual implementation for encoders and decoders is Python's.

Found in path(s):

* /opt/cola/permits/1664030552_1683224506.7313783/0/webencodings-0-5-1-1-tar-gz/webencodings-0.5.1/README.rst

1.206 @storybook/channels 6.3.11

1.206.1 Available under license :

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1.207 pyjwt 2.5.0

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1.208 react-dom 16.9.0

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1.209 txredisapi 1.0

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```

- * /opt/cola/permits/1664029714_1684259158.0654404/0/ilyaskriblovsky-txredisapi-v1-0-0-g92591fa-targz/IlyaSkriblovsky-txredisapi-58cf054/examples/subscriber.py
- * /opt/cola/permits/1664029714_1684259158.0654404/0/ilyaskriblovsky-txredisapi-v1-0-0-g92591fa-targz/IlyaSkriblovsky-txredisapi-58cf054/tests/test_scripting.py
- * /opt/cola/permits/1664029714_1684259158.0654404/0/ilyaskriblovsky-txredisapi-v1-0-0-g92591fa-targz/IlyaSkriblovsky-txredisapi-58cf054/setup.py
- * /opt/cola/permits/1664029714_1684259158.0654404/0/ilyaskriblovsky-txredisapi-v1-0-0-g92591fa-targz/IlyaSkriblovsky-txredisapi-58cf054/tests/test_sets.py
- * /opt/cola/permits/1664029714_1684259158.0654404/0/ilyaskriblovsky-txredisapi-v1-0-0-g92591fa-targz/IlyaSkriblovsky-txredisapi-58cf054/tests/test_unix_connection.py
- * /opt/cola/permits/1664029714_1684259158.0654404/0/ilyaskriblovsky-txredisapi-v1-0-0-g92591fa-targz/IlyaSkriblovsky-txredisapi-58cf054/tests/test_sortedsets.py
- * /opt/cola/permits/1664029714_1684259158.0654404/0/ilyaskriblovsky-txredisapi-v1-0-0-g92591fa-targz/IlyaSkriblovsky-txredisapi-58cf054/txredisapi.py
- * /opt/cola/permits/1664029714_1684259158.0654404/0/ilyaskriblovsky-txredisapi-v1-0-0-g92591fa-targz/IlyaSkriblovsky-txredisapi-58cf054/tests/test_multibulk.py
- * /opt/cola/permits/1664029714_1684259158.0654404/0/ilyaskriblovsky-txredisapi-v1-0-0-g92591fa-targz/IlyaSkriblovsky-txredisapi-58cf054/examples/twistedweb_server.py
- * /opt/cola/permits/1664029714_1684259158.0654404/0/ilyaskriblovsky-txredisapi-v1-0-0-g92591fa-targz/IlyaSkriblovsky-txredisapi-58cf054/tests/test_transactions.py
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- * /opt/cola/permits/1664029714_1684259158.0654404/0/ilyaskriblovsky-txredisapi-v1-0-0-g92591fa-targz/IlyaSkriblovsky-txredisapi-58cf054/examples/monitor.py
- * /opt/cola/permits/1664029714_1684259158.0654404/0/ilyaskriblovsky-txredisapi-v1-0-0-g92591fa-targz/IlyaSkriblovsky-txredisapi-58cf054/tests/test_publish.py

1.210 duo 0.3.2

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1.211 pyrsistent 0.17.3

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1.212 python-lxml 4.6.3

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1.213 soupsieve 1.9.5

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1.214 python-babel 2.9.1

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1.215 six 1.15.0

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The primary author and maintainer of six is Benjamin Peterson. He would like to acknowledge the following people who submitted bug reports, pull requests, and otherwise worked to improve six:

Marc Abramowitz
immerrr again
Alexander Artemenko
Aymeric Augustin
Lee Ball
Ben Bariteau
Ned Batchelder
Wouter Bolsterlee
Brett Cannon
Jason R. Coombs
Julien Danjou
Ben Darnell
Ben Davis
Jon Dufresne
Tim Graham
Thomas Grainger
Max Grender-Jones
Joshua Harlow
Toshiki Kataoka
Hugo van Kemenade
Anselm Kruis
Ivan Levkivskiy
Alexander Lukanin
James Mills
Jordan Moldow
Berker Peksag
Sridhar Ratnakumar
Erik Rose
Mirko Rossini
Peter Ruibal
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1.216 recurly 2.9.2

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```
# Recurly [![Build Status](https://secure.travis-ci.org/recurly/recurly-client-ruby.png?branch=master)](http://travis-ci.org/recurly/recurly-client-ruby) [![Gem Version](https://badge.fury.io/rb/recurly.svg)](http://badge.fury.io/rb/recurly)
```

```
<https://github.com/recurly/recurly-client-ruby>
```

[Recurly](https://recurly.com/)'s Ruby client library is an interface to its [REST API](https://dev.recurly.com/docs/getting-started).

You can also look at [rubydocs](http://www.rubydoc.info/github/recurly/recurly-client-ruby/master) to see documentation on the classes and methods available.

Installation

Recurly is packaged as a Ruby gem. We recommend you install it with [Bundler](http://gembundler.com/) by adding the following line to your Gemfile:

```
```` ruby
gem 'recurly', '~> 2.9.2'
````
```

Recurly will automatically use [Nokogiri](http://nokogiri.org/) (for a nice speed boost) if it's available and loaded in your app's environment.

Configuration

If you're using Rails, you can generate an initializer with the following command:

```
```` bash
$ rails g recurly:config
````
```

If you're not using Rails, use the following template:

```
```` ruby
Recurly.subdomain = ENV['RECURLY_SUBDOMAIN']
Recurly.api_key = ENV['RECURLY_API_KEY']
````
```

Configure the client library with

[your API credentials](https://app.recurly.com/go/developer/api_access).

* `RECURLY_SUBDOMAIN` should contain subdomain for your recurly account.

* `RECURLY_API_KEY` is your "Private API Key" which can be found under "API Credentials" on the

`api_access` admin page.

The default currency is USD. To override with a different code:

```
``` ruby
Recurly.default_currency = 'EUR' # Assign nil to disable the default entirely.
```
```

If you are using [Recurly.js](https://js.recurly.com) you can store "Public API Key" (which can be found under "API Credentials" on the `api_access` admin page):

```
``` ruby
Recurly.js.public_key = ENV['RECURLY_PUBLIC_API_KEY']
```
```

Then, in your Rails project you can create `recurly_service.js.erb` file and [configure](https://docs.recurly.com/js/#configure) recurly.js with public key this way:

```
``` js
recurly.configure({ publicKey: '<%= Recurly.js.public_key %>'});
```
```

The client library currently uses a Net::HTTP adapter. If you need to configure the settings passed to Net::HTTP (e.g., an SSL certificates path), make sure you assign them before you make any requests:

```
``` ruby
Recurly::API.net_http = {
 :ca_path => "/etc/ssl/certs"
}
```
```

Multi-Threaded Configuration

If you are using the client in a multi-threaded environment and require a different configuration per thread you can use the following within the thread's context:

```
``` ruby
Recurly.config({
 subdomain: ENV['RECURLY_SUBDOMAIN']
 api_key: ENV['RECURLY_API_KEY'],
 default_currency: "US",
 private_key: ENV['RECURLY_PUBLIC_API_KEY']
})
```
```

Any configuration items you do not include in the above config call will be defaulted to the standard configuration items. For example if you do not define default_currency then Recurly.default_currency will be used.

Supported Versions

We are currently supporting versions `2.1.0` and above. `1.9` and `2.0` will still work but are deprecated.

If you are still using one of these rubies, you should know that support for them ended in 2015 (1.9) and 2016 (2.0) and continuing to use them is a security risk.

- <https://www.ruby-lang.org/en/news/2015/02/23/support-for-ruby-1-9-3-has-ended/>
- <https://www.ruby-lang.org/en/news/2016/02/24/support-plan-of-ruby-2-0-0-and-2-1/>

For now, we are still running the tests on 1.9 and 2.0 but without `nokogiri` and only `rexml`. Nokogiri is no longer supported on 1.9 or 2.0 and has patched known vulnerabilities since dropping support. If you must run one of these rubies (this includes jruby1.7), you must use rexml and not nokogiri.

Usage

Instructions and examples are available on [Recurly's documentation site](<https://dev.recurly.com/docs/getting-started>).

Recurly's gem API is available [here](<http://rubydoc.info/gems/recurly/frames/Recurly>).

Support

- [support.recurly.com](<https://support.recurly.com>)
- [[stackoverflow](http://stackoverflow.com/questions/tagged/recurly)](<http://stackoverflow.com/questions/tagged/recurly>)

Announcements

- [[@recurly](https://twitter.com/recurly)](<https://twitter.com/recurly>)
- [[Google Group Announcements](https://groups.google.com/group/recurly-api)](<https://groups.google.com/group/recurly-api>)

Contributing

Developing for the Recurly gem is easy with [Bundler](<http://gembundler.com/>).

Fork and clone the repository, `cd` into the directory, and, with a Ruby of your choice (1.9.3 or greater), set up your environment.

If you don't have Bundler installed, install it with the following command:

```
``` bash
$ [sudo] gem install bundler
```
```

And bundle:

```
``` bash
$ bundle --path=vendor/bundle
```
```

You should now be able to run the test suite with Rake:

```
``` bash
$ bundle exec rake
```
```

To run the suite using Nokogiri:

```
``` bash
$ XML=nokogiri bundle exec rake
```
```

If you plan on submitting a patch, please write tests for it (we use `MiniTest::Spec`)(<http://bfts.rubyforge.org/minitest/MiniTest/Expectations.html>)).

If everything looks good, submit a pull request on GitHub and we'll bring in your changes.

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Found in path(s):

* /opt/cola/permits/1664027491_1684259117.8199298/0/recurly-2-9-2-2-gem/data-tar-gz/README.md

1.217 pyuca 1.1.2

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1.218 opentelemetry-exporter-otlp-proto-grpc

1.8.0

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1.220 pandas 1.5.3

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A. HISTORY OF THE SOFTWARE

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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see <http://www.cwi.nl>) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see <http://www.cnri.reston.va.us>) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see <http://www.zope.com>). In 2001, the Python Software Foundation (PSF, see <http://www.python.org/psf/>) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

All Python releases are Open Source (see <http://www.opensource.org> for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

| Release | Derived from | Year | Owner | GPL-compatible? (1) |
|----------------|--------------|-----------|------------|---------------------|
| 0.9.0 thru 1.2 | | 1991-1995 | CWI | yes |
| 1.3 thru 1.5.2 | 1.2 | 1995-1999 | CNRI | yes |
| 1.6 | 1.5.2 | 2000 | CNRI | no |
| 2.0 | 1.6 | 2000 | BeOpen.com | no |
| 1.6.1 | 1.6 | 2001 | CNRI | yes (2) |
| 2.1 | 2.0+1.6.1 | 2001 | PSF | no |
| 2.0.1 | 2.0+1.6.1 | 2001 | PSF | yes |
| 2.1.1 | 2.1+2.0.1 | 2001 | PSF | yes |
| 2.2 | 2.1.1 | 2001 | PSF | yes |
| 2.1.2 | 2.1.1 | 2002 | PSF | yes |
| 2.1.3 | 2.1.2 | 2002 | PSF | yes |
| 2.2.1 | 2.2 | 2002 | PSF | yes |
| 2.2.2 | 2.2.1 | 2002 | PSF | yes |
| 2.2.3 | 2.2.2 | 2003 | PSF | yes |
| 2.3 | 2.2.2 | 2002-2003 | PSF | yes |
| 2.3.1 | 2.3 | 2002-2003 | PSF | yes |

| | | | | |
|-------|-------|-----------|-----|-----|
| 2.3.2 | 2.3.1 | 2002-2003 | PSF | yes |
| 2.3.3 | 2.3.2 | 2002-2003 | PSF | yes |
| 2.3.4 | 2.3.3 | 2004 | PSF | yes |
| 2.3.5 | 2.3.4 | 2005 | PSF | yes |
| 2.4 | 2.3 | 2004 | PSF | yes |
| 2.4.1 | 2.4 | 2005 | PSF | yes |
| 2.4.2 | 2.4.1 | 2005 | PSF | yes |
| 2.4.3 | 2.4.2 | 2006 | PSF | yes |
| 2.4.4 | 2.4.3 | 2006 | PSF | yes |
| 2.5 | 2.4 | 2006 | PSF | yes |
| 2.5.1 | 2.5 | 2007 | PSF | yes |
| 2.5.2 | 2.5.1 | 2008 | PSF | yes |
| 2.5.3 | 2.5.2 | 2008 | PSF | yes |
| 2.6 | 2.5 | 2008 | PSF | yes |
| 2.6.1 | 2.6 | 2008 | PSF | yes |
| 2.6.2 | 2.6.1 | 2009 | PSF | yes |
| 2.6.3 | 2.6.2 | 2009 | PSF | yes |
| 2.6.4 | 2.6.3 | 2009 | PSF | yes |
| 2.6.5 | 2.6.4 | 2010 | PSF | yes |
| 2.7 | 2.6 | 2010 | PSF | yes |

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1.221 @storybook/router 6.3.11

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1.222 platformdirs 2.4.1

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1.223 aioboto3 8.3.0

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1.224 uuid-browser 3.1.0

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1.225 is-object 1.0.2

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```
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```

Found in path(s):

```
* /opt/cola/permits/1664027229_1683227702.2600112/0/jsmicro-is-object-v1-0-2-0-g1c798b4-1-tar-gz/jsmicro-is-object-29dd0e3/readme.md
```

1.226 pyarrow 9.0.0

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```
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```

Found in path(s):

```
* /opt/cola/permits/1664031134_1684336156.620792/0/pyarrow-9-0-0-tar-gz/pyarrow-
```

9.0.0/pyarrow/vendored/docscrape.py

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```
* /opt/cola/permits/1664031134_1684336156.620792/0/pyarrow-9-0-0-tar-gz/pyarrow-  
9.0.0/cmake_modules/FindInferTools.cmake  
* /opt/cola/permits/1664031134_1684336156.620792/0/pyarrow-9-0-0-tar-gz/pyarrow-  
9.0.0/cmake_modules/FindBrotli.cmake  
* /opt/cola/permits/1664031134_1684336156.620792/0/pyarrow-9-0-0-tar-gz/pyarrow-  
9.0.0/cmake_modules/FindgRPCAlt.cmake  
* /opt/cola/permits/1664031134_1684336156.620792/0/pyarrow-9-0-0-tar-gz/pyarrow-  
9.0.0/cmake_modules/FindClangTools.cmake  
* /opt/cola/permits/1664031134_1684336156.620792/0/pyarrow-9-0-0-tar-gz/pyarrow-  
9.0.0/cmake_modules/Findjemalloc.cmake  
* /opt/cola/permits/1664031134_1684336156.620792/0/pyarrow-9-0-0-tar-gz/pyarrow-  
9.0.0/cmake_modules/FindThrift.cmake  
* /opt/cola/permits/1664031134_1684336156.620792/0/pyarrow-9-0-0-tar-gz/pyarrow-  
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The ORC and JSON files come from the `examples` directory in the Apache ORC source tree:

<https://github.com/apache/orc/tree/master/examples>

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```
* /opt/cola/permits/1664031134_1684336156.620792/0/pyarrow-9-0-0-tar-gz/pyarrow-9.0.0/pyarrow/tests/data/orc/README.md
```

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* /opt/cola/permits/1664031134_1684336156.620792/0/pyarrow-9-0-0-tar-gz/pyarrow-9.0.0/cmake_modules/UseCython.cmake
```

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```
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```

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```

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```
* /opt/cola/permits/1664031134_1684336156.620792/0/pyarrow-9-0-0-tar-gz/pyarrow-
9.0.0/pyarrow/tests/test_csv.py
* /opt/cola/permits/1664031134_1684336156.620792/0/pyarrow-9-0-0-tar-gz/pyarrow-
9.0.0/pyarrow/tests/test_plasma_tf_op.py
* /opt/cola/permits/1664031134_1684336156.620792/0/pyarrow-9-0-0-tar-gz/pyarrow-9.0.0/pyarrow/public-api.pxi
* /opt/cola/permits/1664031134_1684336156.620792/0/pyarrow-9-0-0-tar-gz/pyarrow-
9.0.0/cmake_modules/FindArrowDataset.cmake
* /opt/cola/permits/1664031134_1684336156.620792/0/pyarrow-9-0-0-tar-gz/pyarrow-
9.0.0/pyarrow/tests/test_compute.py
* /opt/cola/permits/1664031134_1684336156.620792/0/pyarrow-9-0-0-tar-gz/pyarrow-
9.0.0/pyarrow/includes/libarrow_feather.pxd
* /opt/cola/permits/1664031134_1684336156.620792/0/pyarrow-9-0-0-tar-gz/pyarrow-
9.0.0/pyarrow/includes/libarrow_cuda.pxd
* /opt/cola/permits/1664031134_1684336156.620792/0/pyarrow-9-0-0-tar-gz/pyarrow-9.0.0/pyarrow/ipc.pxi
* /opt/cola/permits/1664031134_1684336156.620792/0/pyarrow-9-0-0-tar-gz/pyarrow-
9.0.0/pyarrow/tests/test_hdfs.py
* /opt/cola/permits/1664031134_1684336156.620792/0/pyarrow-9-0-0-tar-gz/pyarrow-9.0.0/pyarrow/_fs.pyx
* /opt/cola/permits/1664031134_1684336156.620792/0/pyarrow-9-0-0-tar-gz/pyarrow-
9.0.0/pyarrow/vendored/__init__.py
* /opt/cola/permits/1664031134_1684336156.620792/0/pyarrow-9-0-0-tar-gz/pyarrow-9.0.0/pyarrow/_parquet.pyx
* /opt/cola/permits/1664031134_1684336156.620792/0/pyarrow-9-0-0-tar-gz/pyarrow-
9.0.0/pyarrow/includes/libplasma.pxd
* /opt/cola/permits/1664031134_1684336156.620792/0/pyarrow-9-0-0-tar-gz/pyarrow-9.0.0/pyarrow/scalar.pxi
* /opt/cola/permits/1664031134_1684336156.620792/0/pyarrow-9-0-0-tar-gz/pyarrow-9.0.0/pyarrow/_orc.pyx
* /opt/cola/permits/1664031134_1684336156.620792/0/pyarrow-9-0-0-tar-gz/pyarrow-9.0.0/pyarrow/conftest.py
* /opt/cola/permits/1664031134_1684336156.620792/0/pyarrow-9-0-0-tar-gz/pyarrow-
9.0.0/pyarrow/includes/common.pxd
* /opt/cola/permits/1664031134_1684336156.620792/0/pyarrow-9-0-0-tar-gz/pyarrow-9.0.0/pyarrow/_csv.pyx
* /opt/cola/permits/1664031134_1684336156.620792/0/pyarrow-9-0-0-tar-gz/pyarrow-
9.0.0/pyarrow/includes/libarrow_dataset.pxd
* /opt/cola/permits/1664031134_1684336156.620792/0/pyarrow-9-0-0-tar-gz/pyarrow-
9.0.0/cmake_modules/FindArrowFlightSql.cmake
* /opt/cola/permits/1664031134_1684336156.620792/0/pyarrow-9-0-0-tar-gz/pyarrow-9.0.0/pyarrow/_plasma.pyx
* /opt/cola/permits/1664031134_1684336156.620792/0/pyarrow-9-0-0-tar-gz/pyarrow-
9.0.0/cmake_modules/Usevcpkg.cmake
* /opt/cola/permits/1664031134_1684336156.620792/0/pyarrow-9-0-0-tar-gz/pyarrow-
9.0.0/pyarrow/tests/parquet/test_parquet_writer.py
* /opt/cola/permits/1664031134_1684336156.620792/0/pyarrow-9-0-0-tar-gz/pyarrow-
9.0.0/pyarrow/tests/pandas_threaded_import.py
* /opt/cola/permits/1664031134_1684336156.620792/0/pyarrow-9-0-0-tar-gz/pyarrow-9.0.0/pyarrow/__init__.py
* /opt/cola/permits/1664031134_1684336156.620792/0/pyarrow-9-0-0-tar-gz/pyarrow-9.0.0/pyarrow/substrait.py
* /opt/cola/permits/1664031134_1684336156.620792/0/pyarrow-9-0-0-tar-gz/pyarrow-
```

9.0.0/pyarrow/tests/test_udf.py
* /opt/cola/permits/1664031134_1684336156.620792/0/pyarrow-9-0-0-tar-gz/pyarrow-9.0.0/pyarrow/tests/test_gandiva.py
* /opt/cola/permits/1664031134_1684336156.620792/0/pyarrow-9-0-0-tar-gz/pyarrow-9.0.0/cmake_modules/Findre2Alt.cmake
* /opt/cola/permits/1664031134_1684336156.620792/0/pyarrow-9-0-0-tar-gz/pyarrow-9.0.0/pyarrow/compat.pxi
* /opt/cola/permits/1664031134_1684336156.620792/0/pyarrow-9-0-0-tar-gz/pyarrow-9.0.0/pyarrow/types.py
* /opt/cola/permits/1664031134_1684336156.620792/0/pyarrow-9-0-0-tar-gz/pyarrow-9.0.0/pyarrow/orc.py
* /opt/cola/permits/1664031134_1684336156.620792/0/pyarrow-9-0-0-tar-gz/pyarrow-9.0.0/pyarrow/tests/strategies.py
* /opt/cola/permits/1664031134_1684336156.620792/0/pyarrow-9-0-0-tar-gz/pyarrow-9.0.0/pyarrow/includes/libgandiva.pxd
* /opt/cola/permits/1664031134_1684336156.620792/0/pyarrow-9-0-0-tar-gz/pyarrow-9.0.0/pyarrow/tests/test_adhoc_memory_leak.py
* /opt/cola/permits/1664031134_1684336156.620792/0/pyarrow-9-0-0-tar-gz/pyarrow-9.0.0/cmake_modules/FindParquet.cmake
* /opt/cola/permits/1664031134_1684336156.620792/0/pyarrow-9-0-0-tar-gz/pyarrow-9.0.0/pyarrow/tests/test_memory.py
* /opt/cola/permits/1664031134_1684336156.620792/0/pyarrow-9-0-0-tar-gz/pyarrow-9.0.0/pyarrow/tests/test_misc.py
* /opt/cola/permits/1664031134_1684336156.620792/0/pyarrow-9-0-0-tar-gz/pyarrow-9.0.0/cmake_modules/FindRapidJSONAlt.cmake
* /opt/cola/permits/1664031134_1684336156.620792/0/pyarrow-9-0-0-tar-gz/pyarrow-9.0.0/pyarrow/tests/test_extension_type.py
* /opt/cola/permits/1664031134_1684336156.620792/0/pyarrow-9-0-0-tar-gz/pyarrow-9.0.0/cmake_modules/FindSnappyAlt.cmake
* /opt/cola/permits/1664031134_1684336156.620792/0/pyarrow-9-0-0-tar-gz/pyarrow-9.0.0/pyarrow/_feather.pyx
* /opt/cola/permits/1664031134_1684336156.620792/0/pyarrow-9-0-0-tar-gz/pyarrow-9.0.0/cmake_modules/FindArrowFlight.cmake
* /opt/cola/permits/1664031134_1684336156.620792/0/pyarrow-9-0-0-tar-gz/pyarrow-9.0.0/pyarrow/tests/deserialize_buffer.py
* /opt/cola/permits/1664031134_1684336156.620792/0/pyarrow-9-0-0-tar-gz/pyarrow-9.0.0/cmake_modules/FindPython3Alt.cmake
* /opt/cola/permits/1664031134_1684336156.620792/0/pyarrow-9-0-0-tar-gz/pyarrow-9.0.0/pyarrow/tests/test_jvm.py
* /opt/cola/permits/1664031134_1684336156.620792/0/pyarrow-9-0-0-tar-gz/pyarrow-9.0.0/pyarrow/feather.py
* /opt/cola/permits/1664031134_1684336156.620792/0/pyarrow-9-0-0-tar-gz/pyarrow-9.0.0/pyarrow/_flight.pyx
* /opt/cola/permits/1664031134_1684336156.620792/0/pyarrow-9-0-0-tar-gz/pyarrow-9.0.0/pyarrow/tests/test_serialization.py
* /opt/cola/permits/1664031134_1684336156.620792/0/pyarrow-9-0-0-tar-gz/pyarrow-9.0.0/pyarrow/lib.pxd
* /opt/cola/permits/1664031134_1684336156.620792/0/pyarrow-9-0-0-tar-gz/pyarrow-9.0.0/pyarrow/tests/test_sparse_tensor.py
* /opt/cola/permits/1664031134_1684336156.620792/0/pyarrow-9-0-0-tar-gz/pyarrow-9.0.0/pyproject.toml
* /opt/cola/permits/1664031134_1684336156.620792/0/pyarrow-9-0-0-tar-gz/pyarrow-9.0.0/pyarrow/tests/arrow_7980.py
* /opt/cola/permits/1664031134_1684336156.620792/0/pyarrow-9-0-0-tar-gz/pyarrow-9.0.0/pyarrow/tests/test_deprecations.py
* /opt/cola/permits/1664031134_1684336156.620792/0/pyarrow-9-0-0-tar-gz/pyarrow-

9.0.0/cmake_modules/FindArrowCUDA.cmake
* /opt/cola/permits/1664031134_1684336156.620792/0/pyarrow-9-0-0-tar-gz/pyarrow-9.0.0/pyarrow/tensor.pxi
* /opt/cola/permits/1664031134_1684336156.620792/0/pyarrow-9-0-0-tar-gz/pyarrow-9.0.0/pyarrow/tests/parquet/test_pandas.py
* /opt/cola/permits/1664031134_1684336156.620792/0/pyarrow-9-0-0-tar-gz/pyarrow-9.0.0/pyarrow/tests/test_fs.py
* /opt/cola/permits/1664031134_1684336156.620792/0/pyarrow-9-0-0-tar-gz/pyarrow-9.0.0/pyarrow/includes/libarrow_fs.pxd
* /opt/cola/permits/1664031134_1684336156.620792/0/pyarrow-9-0-0-tar-gz/pyarrow-9.0.0/cmake_modules/BuildUtils.cmake
* /opt/cola/permits/1664031134_1684336156.620792/0/pyarrow-9-0-0-tar-gz/pyarrow-9.0.0/pyarrow/tests/test_subtrait.py
* /opt/cola/permits/1664031134_1684336156.620792/0/pyarrow-9-0-0-tar-gz/pyarrow-9.0.0/pyarrow/array.pxi
* /opt/cola/permits/1664031134_1684336156.620792/0/pyarrow-9-0-0-tar-gz/pyarrow-9.0.0/pyarrow/cffi.py
* /opt/cola/permits/1664031134_1684336156.620792/0/pyarrow-9-0-0-tar-gz/pyarrow-9.0.0/cmake_modules/Findlibrados.cmake
* /opt/cola/permits/1664031134_1684336156.620792/0/pyarrow-9-0-0-tar-gz/pyarrow-9.0.0/pyarrow/tests/parquet/test_encryption.py
* /opt/cola/permits/1664031134_1684336156.620792/0/pyarrow-9-0-0-tar-gz/pyarrow-9.0.0/cmake_modules/FindORC.cmake
* /opt/cola/permits/1664031134_1684336156.620792/0/pyarrow-9-0-0-tar-gz/pyarrow-9.0.0/cmake_modules/FindArrow.cmake
* /opt/cola/permits/1664031134_1684336156.620792/0/pyarrow-9-0-0-tar-gz/pyarrow-9.0.0/pyarrow/parquet/__init__.py
* /opt/cola/permits/1664031134_1684336156.620792/0/pyarrow-9-0-0-tar-gz/pyarrow-9.0.0/cmake_modules/FindArrowPythonFlight.cmake
* /opt/cola/permits/1664031134_1684336156.620792/0/pyarrow-9-0-0-tar-gz/pyarrow-9.0.0/pyarrow/fs.py
* /opt/cola/permits/1664031134_1684336156.620792/0/pyarrow-9-0-0-tar-gz/pyarrow-9.0.0/pyarrow/tests/test_json.py
* /opt/cola/permits/1664031134_1684336156.620792/0/pyarrow-9-0-0-tar-gz/pyarrow-9.0.0/pyarrow/tests/test_scalars.py
* /opt/cola/permits/1664031134_1684336156.620792/0/pyarrow-9-0-0-tar-gz/pyarrow-9.0.0/pyarrow/tests/test_exec_plan.py
* /opt/cola/permits/1664031134_1684336156.620792/0/pyarrow-9-0-0-tar-gz/pyarrow-9.0.0/pyarrow/tests/test_feather.py
* /opt/cola/permits/1664031134_1684336156.620792/0/pyarrow-9-0-0-tar-gz/pyarrow-9.0.0/pyarrow/tests/test_gdb.py
* /opt/cola/permits/1664031134_1684336156.620792/0/pyarrow-9-0-0-tar-gz/pyarrow-9.0.0/pyarrow/tests/test_io.py
* /opt/cola/permits/1664031134_1684336156.620792/0/pyarrow-9-0-0-tar-gz/pyarrow-9.0.0/pyarrow/tests/test_array.py
* /opt/cola/permits/1664031134_1684336156.620792/0/pyarrow-9-0-0-tar-gz/pyarrow-9.0.0/pyarrow/error.pxi
* /opt/cola/permits/1664031134_1684336156.620792/0/pyarrow-9-0-0-tar-gz/pyarrow-9.0.0/pyarrow/tests/test_cuda_numba_interop.py
* /opt/cola/permits/1664031134_1684336156.620792/0/pyarrow-9-0-0-tar-gz/pyarrow-9.0.0/pyarrow/tests/test_convert_builtin.py
* /opt/cola/permits/1664031134_1684336156.620792/0/pyarrow-9-0-0-tar-gz/pyarrow-9.0.0/pyarrow/includes/libarrow_python.pxd

- * /opt/cola/permits/1664031134_1684336156.620792/0/pyarrow-9-0-0-tar-gz/pyarrow-9.0.0/pyarrow/types.pxi
- * /opt/cola/permits/1664031134_1684336156.620792/0/pyarrow-9-0-0-tar-gz/pyarrow-9.0.0/pyarrow/_compute.pxd
- * /opt/cola/permits/1664031134_1684336156.620792/0/pyarrow-9-0-0-tar-gz/pyarrow-9.0.0/pyarrow/_dataset.pyx
- * /opt/cola/permits/1664031134_1684336156.620792/0/pyarrow-9-0-0-tar-gz/pyarrow-9.0.0/pyarrow/tests/test_pandas.py
- * /opt/cola/permits/1664031134_1684336156.620792/0/pyarrow-9-0-0-tar-gz/pyarrow-9.0.0/cmake_modules/Findlz4Alt.cmake
- * /opt/cola/permits/1664031134_1684336156.620792/0/pyarrow-9-0-0-tar-gz/pyarrow-9.0.0/pyarrow/benchmark.pxi
- * /opt/cola/permits/1664031134_1684336156.620792/0/pyarrow-9-0-0-tar-gz/pyarrow-9.0.0/cmake_modules/FindArrowSubstrait.cmake
- * /opt/cola/permits/1664031134_1684336156.620792/0/pyarrow-9-0-0-tar-gz/pyarrow-9.0.0/pyarrow/tests/util.py
- * /opt/cola/permits/1664031134_1684336156.620792/0/pyarrow-9-0-0-tar-gz/pyarrow-9.0.0/pyarrow/memory.pxi
- * /opt/cola/permits/1664031134_1684336156.620792/0/pyarrow-9-0-0-tar-gz/pyarrow-9.0.0/cmake_modules/ThirdpartyToolchain.cmake
- * /opt/cola/permits/1664031134_1684336156.620792/0/pyarrow-9-0-0-tar-gz/pyarrow-9.0.0/pyarrow/tests/test_plasma.py
- * /opt/cola/permits/1664031134_1684336156.620792/0/pyarrow-9-0-0-tar-gz/pyarrow-9.0.0/pyarrow/pandas-shim.pxi
- * /opt/cola/permits/1664031134_1684336156.620792/0/pyarrow-9-0-0-tar-gz/pyarrow-9.0.0/pyarrow/gandiva.pyx
- * /opt/cola/permits/1664031134_1684336156.620792/0/pyarrow-9-0-0-tar-gz/pyarrow-9.0.0/pyarrow/tests/conftest.py
- * /opt/cola/permits/1664031134_1684336156.620792/0/pyarrow-9-0-0-tar-gz/pyarrow-9.0.0/pyarrow/tests/test_cffi.py
- * /opt/cola/permits/1664031134_1684336156.620792/0/pyarrow-9-0-0-tar-gz/pyarrow-9.0.0/pyarrow/tests/parquet/test_basic.py
- * /opt/cola/permits/1664031134_1684336156.620792/0/pyarrow-9-0-0-tar-gz/pyarrow-9.0.0/pyarrow/_cuda.pyx
- * /opt/cola/permits/1664031134_1684336156.620792/0/pyarrow-9-0-0-tar-gz/pyarrow-9.0.0/cmake_modules/FindgflagsAlt.cmake
- * /opt/cola/permits/1664031134_1684336156.620792/0/pyarrow-9-0-0-tar-gz/pyarrow-9.0.0/pyarrow/csv.py
- * /opt/cola/permits/1664031134_1684336156.620792/0/pyarrow-9-0-0-tar-gz/pyarrow-9.0.0/pyarrow/tests/test_builder.py
- * /opt/cola/permits/1664031134_1684336156.620792/0/pyarrow-9-0-0-tar-gz/pyarrow-9.0.0/pyarrow/tests/test_ipc.py
- * /opt/cola/permits/1664031134_1684336156.620792/0/pyarrow-9-0-0-tar-gz/pyarrow-9.0.0/pyarrow/includes/libarrow.pxd
- * /opt/cola/permits/1664031134_1684336156.620792/0/pyarrow-9-0-0-tar-gz/pyarrow-9.0.0/pyarrow/_compute.pyx
- * /opt/cola/permits/1664031134_1684336156.620792/0/pyarrow-9-0-0-tar-gz/pyarrow-9.0.0/pyarrow/tests/read_record_batch.py
- * /opt/cola/permits/1664031134_1684336156.620792/0/pyarrow-9-0-0-tar-gz/pyarrow-9.0.0/cmake_modules/DefineOptions.cmake
- * /opt/cola/permits/1664031134_1684336156.620792/0/pyarrow-9-0-0-tar-gz/pyarrow-9.0.0/pyarrow/config.pxi
- * /opt/cola/permits/1664031134_1684336156.620792/0/pyarrow-9-0-0-tar-gz/pyarrow-9.0.0/pyarrow/includes/libarrow_flight.pxd
- * /opt/cola/permits/1664031134_1684336156.620792/0/pyarrow-9-0-0-tar-gz/pyarrow-9.0.0/pyarrow/tests/parquet/test_datetime.py
- * /opt/cola/permits/1664031134_1684336156.620792/0/pyarrow-9-0-0-tar-gz/pyarrow-9.0.0/pyarrow/plasma.py
- * /opt/cola/permits/1664031134_1684336156.620792/0/pyarrow-9-0-0-tar-gz/pyarrow-9.0.0/pyarrow/cuda.py

* /opt/cola/permits/1664031134_1684336156.620792/0/pyarrow-9-0-0-tar-gz/pyarrow-9.0.0/pyarrow/serialization.pxi

* /opt/cola/permits/1664031134_1684336156.620792/0/pyarrow-9-0-0-tar-gz/pyarrow-9.0.0/pyarrow/tests/parquet/test_compliant_nested_type.py

* /opt/cola/permits/1664031134_1684336156.620792/0/pyarrow-9-0-0-tar-gz/pyarrow-9.0.0/pyarrow/_dataset_parquet.pyx

* /opt/cola/permits/1664031134_1684336156.620792/0/pyarrow-9-0-0-tar-gz/pyarrow-9.0.0/pyarrow/tests/test_orc.py

* /opt/cola/permits/1664031134_1684336156.620792/0/pyarrow-9-0-0-tar-gz/pyarrow-9.0.0/pyarrow/tests/parquet/test_metadata.py

* /opt/cola/permits/1664031134_1684336156.620792/0/pyarrow-9-0-0-tar-gz/pyarrow-9.0.0/pyarrow/tests/parquet/___init__.py

* /opt/cola/permits/1664031134_1684336156.620792/0/pyarrow-9-0-0-tar-gz/pyarrow-9.0.0/pyarrow/tests/test_serialization_deprecated.py

* /opt/cola/permits/1664031134_1684336156.620792/0/pyarrow-9-0-0-tar-gz/pyarrow-9.0.0/cmake_modules/FindSQLite3Alt.cmake

* /opt/cola/permits/1664031134_1684336156.620792/0/pyarrow-9-0-0-tar-gz/pyarrow-9.0.0/pyarrow/_cuda.pxd

* /opt/cola/permits/1664031134_1684336156.620792/0/pyarrow-9-0-0-tar-gz/pyarrow-9.0.0/pyarrow/util.py

* /opt/cola/permits/1664031134_1684336156.620792/0/pyarrow-9-0-0-tar-gz/pyarrow-9.0.0/cmake_modules/FindOpenSSLAlt.cmake

* /opt/cola/permits/1664031134_1684336156.620792/0/pyarrow-9-0-0-tar-gz/pyarrow-9.0.0/pyarrow/tests/parquet/test_dataset.py

* /opt/cola/permits/1664031134_1684336156.620792/0/pyarrow-9-0-0-tar-gz/pyarrow-9.0.0/pyarrow/_csv.pxd

* /opt/cola/permits/1664031134_1684336156.620792/0/pyarrow-9-0-0-tar-gz/pyarrow-9.0.0/pyarrow/tests/pyarrow_cython_example.pyx

* /opt/cola/permits/1664031134_1684336156.620792/0/pyarrow-9-0-0-tar-gz/pyarrow-9.0.0/pyarrow/pandas_compat.py

* /opt/cola/permits/1664031134_1684336156.620792/0/pyarrow-9-0-0-tar-gz/pyarrow-9.0.0/pyarrow/tests/parquet/encryption.py

* /opt/cola/permits/1664031134_1684336156.620792/0/pyarrow-9-0-0-tar-gz/pyarrow-9.0.0/pyarrow/filesystem.py

* /opt/cola/permits/1664031134_1684336156.620792/0/pyarrow-9-0-0-tar-gz/pyarrow-9.0.0/pyarrow/tests/test_table.py

* /opt/cola/permits/1664031134_1684336156.620792/0/pyarrow-9-0-0-tar-gz/pyarrow-9.0.0/pyarrow/_gcsfs.pyx

* /opt/cola/permits/1664031134_1684336156.620792/0/pyarrow-9-0-0-tar-gz/pyarrow-9.0.0/pyarrow/flight.py

* /opt/cola/permits/1664031134_1684336156.620792/0/pyarrow-9-0-0-tar-gz/pyarrow-9.0.0/pyarrow/tests/test_strategies.py

* /opt/cola/permits/1664031134_1684336156.620792/0/pyarrow-9-0-0-tar-gz/pyarrow-9.0.0/pyarrow/includes/libarrow_dataset_parquet.pxd

* /opt/cola/permits/1664031134_1684336156.620792/0/pyarrow-9-0-0-tar-gz/pyarrow-9.0.0/pyarrow/tests/pandas_examples.py

* /opt/cola/permits/1664031134_1684336156.620792/0/pyarrow-9-0-0-tar-gz/pyarrow-9.0.0/pyarrow/tests/arrow_16597.py

* /opt/cola/permits/1664031134_1684336156.620792/0/pyarrow-9-0-0-tar-gz/pyarrow-9.0.0/pyarrow/tests/test_flight.py

* /opt/cola/permits/1664031134_1684336156.620792/0/pyarrow-9-0-0-tar-gz/pyarrow-9.0.0/pyarrow/tests/parquet/test_parquet_file.py

* /opt/cola/permits/1664031134_1684336156.620792/0/pyarrow-9-0-0-tar-gz/pyarrow-9.0.0/cmake_modules/FindArrowTesting.cmake

* /opt/cola/permits/1664031134_1684336156.620792/0/pyarrow-9-0-0-tar-gz/pyarrow-9.0.0/pyarrow/tests/test_filesystem.py

* /opt/cola/permits/1664031134_1684336156.620792/0/pyarrow-9-0-0-tar-gz/pyarrow-9.0.0/pyarrow/tests/test_util.py

* /opt/cola/permits/1664031134_1684336156.620792/0/pyarrow-9-0-0-tar-gz/pyarrow-9.0.0/CMakeLists.txt

* /opt/cola/permits/1664031134_1684336156.620792/0/pyarrow-9-0-0-tar-gz/pyarrow-9.0.0/pyarrow/_parquet.pxd

* /opt/cola/permits/1664031134_1684336156.620792/0/pyarrow-9-0-0-tar-gz/pyarrow-9.0.0/pyarrow/compute.py

* /opt/cola/permits/1664031134_1684336156.620792/0/pyarrow-9-0-0-tar-gz/pyarrow-9.0.0/pyarrow/_json.pyx

* /opt/cola/permits/1664031134_1684336156.620792/0/pyarrow-9-0-0-tar-gz/pyarrow-9.0.0/pyarrow/tests/test_dataset.py

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* /opt/cola/permits/1664031134_1684336156.620792/0/pyarrow-9-0-0-tar-gz/pyarrow-9.0.0/pyarrow/tests/test_schema.py

* /opt/cola/permits/1664031134_1684336156.620792/0/pyarrow-9-0-0-tar-gz/pyarrow-9.0.0/cmake_modules/Findutf8proc.cmake

* /opt/cola/permits/1664031134_1684336156.620792/0/pyarrow-9-0-0-tar-gz/pyarrow-9.0.0/pyarrow/includes/libarrow_substrait.pxd

* /opt/cola/permits/1664031134_1684336156.620792/0/pyarrow-9-0-0-tar-gz/pyarrow-9.0.0/setup.py

* /opt/cola/permits/1664031134_1684336156.620792/0/pyarrow-9-0-0-tar-gz/pyarrow-9.0.0/pyarrow/benchmark.py

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* /opt/cola/permits/1664031134_1684336156.620792/0/pyarrow-9-0-0-tar-gz/pyarrow-9.0.0/pyarrow/_orc.pxd

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* /opt/cola/permits/1664031134_1684336156.620792/0/pyarrow-9-0-0-tar-gz/pyarrow-9.0.0/pyarrow/lib.pyx

* /opt/cola/permits/1664031134_1684336156.620792/0/pyarrow-9-0-0-tar-gz/pyarrow-9.0.0/pyarrow/hdfs.py

* /opt/cola/permits/1664031134_1684336156.620792/0/pyarrow-9-0-0-tar-gz/pyarrow-9.0.0/pyarrow/tests/parquet/common.py

* /opt/cola/permits/1664031134_1684336156.620792/0/pyarrow-9-0-0-tar-gz/pyarrow-9.0.0/pyarrow/_parquet_encryption.pyx

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* /opt/cola/permits/1664031134_1684336156.620792/0/pyarrow-9-0-0-tar-gz/pyarrow-9.0.0/pyarrow/parquet/encryption.py
* /opt/cola/permits/1664031134_1684336156.620792/0/pyarrow-9-0-0-tar-gz/pyarrow-9.0.0/pyarrow/tests/test_types.py
* /opt/cola/permits/1664031134_1684336156.620792/0/pyarrow-9-0-0-tar-gz/pyarrow-9.0.0/pyarrow/_s3fs.pyx
* /opt/cola/permits/1664031134_1684336156.620792/0/pyarrow-9-0-0-tar-gz/pyarrow-9.0.0/pyarrow/tests/test_cython.py
* /opt/cola/permits/1664031134_1684336156.620792/0/pyarrow-9-0-0-tar-gz/pyarrow-9.0.0/cmake_modules/Findzstd.cmake
* /opt/cola/permits/1664031134_1684336156.620792/0/pyarrow-9-0-0-tar-gz/pyarrow-9.0.0/cmake_modules/Findc-aresAlt.cmake
* /opt/cola/permits/1664031134_1684336156.620792/0/pyarrow-9-0-0-tar-gz/pyarrow-9.0.0/pyarrow/tests/parquet/test_data_types.py
* /opt/cola/permits/1664031134_1684336156.620792/0/pyarrow-9-0-0-tar-gz/pyarrow-9.0.0/pyarrow/tests/test_cuda.py
* /opt/cola/permits/1664031134_1684336156.620792/0/pyarrow-9-0-0-tar-gz/pyarrow-9.0.0/pyarrow/_compute_docstrings.py
* /opt/cola/permits/1664031134_1684336156.620792/0/pyarrow-9-0-0-tar-gz/pyarrow-9.0.0/pyarrow/_dataset_orc.pyx
* /opt/cola/permits/1664031134_1684336156.620792/0/pyarrow-9-0-0-tar-gz/pyarrow-9.0.0/cmake_modules/FindLLVMAlt.cmake
* /opt/cola/permits/1664031134_1684336156.620792/0/pyarrow-9-0-0-tar-gz/pyarrow-9.0.0/pyarrow/_dataset.pxd
* /opt/cola/permits/1664031134_1684336156.620792/0/pyarrow-9-0-0-tar-gz/pyarrow-9.0.0/pyarrow/json.py
* /opt/cola/permits/1664031134_1684336156.620792/0/pyarrow-9-0-0-tar-gz/pyarrow-9.0.0/pyarrow/tests/bound_function_visit_strings.pyx
* /opt/cola/permits/1664031134_1684336156.620792/0/pyarrow-9-0-0-tar-gz/pyarrow-9.0.0/pyarrow/ipc.py
* /opt/cola/permits/1664031134_1684336156.620792/0/pyarrow-9-0-0-tar-gz/pyarrow-9.0.0/pyarrow/jvm.py
* /opt/cola/permits/1664031134_1684336156.620792/0/pyarrow-9-0-0-tar-gz/pyarrow-9.0.0/pyarrow/serialization.py
* /opt/cola/permits/1664031134_1684336156.620792/0/pyarrow-9-0-0-tar-gz/pyarrow-9.0.0/pyarrow/_fs.pxd
* /opt/cola/permits/1664031134_1684336156.620792/0/pyarrow-9-0-0-tar-gz/pyarrow-9.0.0/pyarrow/builder.pxi
* /opt/cola/permits/1664031134_1684336156.620792/0/pyarrow-9-0-0-tar-gz/pyarrow-9.0.0/cmake_modules/FindPlasma.cmake

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-->

Python library for Apache Arrow

[![pypi](https://img.shields.io/pypi/v/pyarrow.svg)](https://pypi.org/project/pyarrow/) [![conda-forge](https://img.shields.io/conda/vn/conda-forge/pyarrow.svg)](https://anaconda.org/conda-forge/pyarrow)

This library provides a Python API for functionality provided by the Arrow C++ libraries, along with tools for Arrow integration and interoperability with pandas, NumPy, and other software in the Python ecosystem.

Installing

Across platforms, you can install a recent version of pyarrow with the conda package manager:

```
```shell
conda install pyarrow -c conda-forge
```
```

On Linux, macOS, and Windows, you can also install binary wheels from PyPI with pip:

```
```shell
pip install pyarrow
```
```

If you encounter any issues importing the pip wheels on Windows, you may need to install the [Visual C++ Redistributable for Visual Studio 2015][6].

Development

See [Python Development][2] in the documentation subproject.

Building the documentation

See [documentation build instructions][1] in the documentation subproject.

[1]: <https://github.com/apache/arrow/blob/master/docs/source/developers/documentation.rst>

[2]: <https://github.com/apache/arrow/blob/master/docs/source/developers/python.rst>

[3]: <https://github.com/pandas-dev/pandas>

[5]: <https://arrow.apache.org/docs/latest/python/benchmarks.html>

[6]: <https://www.microsoft.com/en-us/download/details.aspx?id=48145>

Found in path(s):

* /opt/cola/permits/1664031134_1684336156.620792/0/pyarrow-9-0-0-tar-gz/pyarrow-9.0.0/README.md

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Metadata-Version: 2.1

Name: pyarrow

Version: 9.0.0

Summary: Python library for Apache Arrow

Home-page: <https://arrow.apache.org/>

Maintainer: Apache Arrow Developers

Maintainer-email: dev@arrow.apache.org

License: Apache License, Version 2.0

Project-URL: Documentation, <https://arrow.apache.org/docs/python>

Project-URL: Source, <https://github.com/apache/arrow>

Description: <!--

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Python library for Apache Arrow

[![pypi](https://img.shields.io/pypi/v/pyarrow.svg)](https://pypi.org/project/pyarrow/) [![conda-forge](https://img.shields.io/conda/vn/conda-forge/pyarrow.svg)](https://anaconda.org/conda-forge/pyarrow)

This library provides a Python API for functionality provided by the Arrow C++ libraries, along with tools for Arrow integration and interoperability with pandas, NumPy, and other software in the Python ecosystem.

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Development

See [Python Development][2] in the documentation subproject.

Building the documentation

See [documentation build instructions][1] in the documentation subproject.

[1]: <https://github.com/apache/arrow/blob/master/docs/source/developers/documentation.rst>

[2]: <https://github.com/apache/arrow/blob/master/docs/source/developers/python.rst>

[3]: <https://github.com/pandas-dev/pandas>

[5]: <https://arrow.apache.org/docs/latest/python/benchmarks.html>

[6]: <https://www.microsoft.com/en-us/download/details.aspx?id=48145>

Platform: UNKNOWN

Classifier: License :: OSI Approved :: Apache Software License

Classifier: Programming Language :: Python :: 3.7

Classifier: Programming Language :: Python :: 3.8

Classifier: Programming Language :: Python :: 3.9

Classifier: Programming Language :: Python :: 3.10

Requires-Python: >=3.7

Description-Content-Type: text/markdown

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* /opt/cola/permits/1664031134_1684336156.620792/0/pyarrow-9-0-0-tar-gz/pyarrow-9.0.0/pyarrow.egg-info/PKG-INFO

* /opt/cola/permits/1664031134_1684336156.620792/0/pyarrow-9-0-0-tar-gz/pyarrow-9.0.0/PKG-INFO

1.227 react-popper 2.2.5

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1.228 supports-color 0.2.0

1.228.1 Available under license :

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1.229 hastscript 6.0.0

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1.230 opentelemetry-sdk 1.8.0

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1.231 wordwrap 0.0.3

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1.232 beautiful-soup 4.11.1

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1.233 jquery-migrate 3.3.2

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1.234 google-auth-httpplib2 0.1.0

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1.235 mypy 0.812

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1.236 pep517 0.12.0

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1.237 opentelemetry-instrumentation-dbapi 0.27b0

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1.238 postcss-color-rebeccapurple 7.1.1

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1.239 deep-object-diff 1.1.7

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1.240 uglify-to-browserify 1.0.2

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1.241 highcharts 9.1.2

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1.242 pycparser 2.19

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pycparser -- A C parser in Python

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1.243 through2 0.6.5

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1.244 python-setuptools 67.2.0

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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see <http://www.cwi.nl>) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see <http://www.cnri.reston.va.us>) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see <http://www.zope.com>). In 2001, the Python Software Foundation (PSF, see <http://www.python.org/psf/>) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

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| 1.3 thru 1.5.2 | 1.2 | 1995-1999 | CNRI | yes |
| 1.6 | 1.5.2 | 2000 | CNRI | no |
| 2.0 | 1.6 | 2000 | BeOpen.com | no |
| 1.6.1 | 1.6 | 2001 | CNRI | yes (2) |
| 2.1 | 2.0+1.6.1 | 2001 | PSF | no |
| 2.0.1 | 2.0+1.6.1 | 2001 | PSF | yes |
| 2.1.1 | 2.1+2.0.1 | 2001 | PSF | yes |
| 2.1.2 | 2.1.1 | 2002 | PSF | yes |
| 2.1.3 | 2.1.2 | 2002 | PSF | yes |
| 2.2 and above | 2.1.1 | 2001-now | PSF | yes |

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| 2.0 | 1.6 | 2000 | BeOpen.com | no |
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```
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`validate-pyproject`

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1.245 boto3 1.26.112

1.245.1 Available under license :

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1.247 click 7.1.2

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Found in path(s):

* /opt/cola/permits/1664026520_1683224858.1017795/0/pallets-click-7-1-2-0-g1784558-1-tar-gz/pallets-click-1784558/tests/test_formatting.py

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.. _contrib:

=====

click-contrib

=====

As the userbase of Click grows, more and more major feature requests pop up in Click's bugtracker. As reasonable as it may be for those features to be bundled with Click instead of being a standalone project, many of those requested features are either highly experimental or have unproven practical use, while potentially being a burden to maintain.

This is why `click-contrib` exists. The GitHub organization is a collection of possibly experimental third-party packages whose featureset does not belong into Click, but also a playground for major features that may be added to Click in the future. It is also meant to coordinate and concentrate effort on writing third-party extensions for Click, and to ease the effort of searching for such extensions. In that sense it could be described as a low-maintenance alternative to extension repositories of other frameworks.

Please note that the quality and stability of those packages may be different than what you expect from Click itself. While published under a common organization, they are still projects separate from Click.

.. `_click-contrib`: <https://github.com/click-contrib/>

Found in path(s):

* `/opt/cola/permits/1664026520_1683224858.1017795/0/pallets-click-7-1-2-0-g1784558-1-tar-gz/pallets-click-1784558/docs/contrib.rst`

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```
import io
import re

from setuptools import find_packages
from setuptools import setup

with io.open("README.rst", "rt", encoding="utf8") as f:
    readme = f.read()

with io.open("src/click/__init__.py", "rt", encoding="utf8") as f:
    version = re.search(r'__version__ = "(.*?)"', f.read()).group(1)

setup(
    name="click",
    version=version,
    url="https://palletsprojects.com/p/click/",
    project_urls={
        "Documentation": "https://click.palletsprojects.com/",
        "Code": "https://github.com/pallets/click",
        "Issue tracker": "https://github.com/pallets/click/issues",
    },
    license="BSD-3-Clause",
```



```
maintainer="Pallets",
maintainer_email="contact@palletsprojects.com",
description="Composable command line interface toolkit",
long_description=readme,
packages=find_packages("src"),
package_dir={"": "src"},
include_package_data=True,
python_requires=">=2.7, !=3.0.*, !=3.1.*, !=3.2.*, !=3.3.*, !=3.4.*",
classifiers=[
    "Development Status :: 5 - Production/Stable",
    "Intended Audience :: Developers",
    "License :: OSI Approved :: BSD License",
    "Operating System :: OS Independent",
    "Programming Language :: Python",
    "Programming Language :: Python :: 2",
    "Programming Language :: Python :: 3",
],
)
```

Found in path(s):

```
* /opt/cola/permits/1664026520_1683224858.1017795/0/pallets-click-7-1-2-0-g1784558-1-tar-gz/pallets-click-1784558/setup.py
```

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Found in path(s):

```
* /opt/cola/permits/1664026520_1683224858.1017795/0/pallets-click-7-1-2-0-g1784558-1-tar-gz/pallets-click-1784558/src/click/parser.py
```

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binary only, patch it back to the system, and then use a wrapper

Found in path(s):

```
* /opt/cola/permits/1664026520_1683224858.1017795/0/pallets-click-7-1-2-0-g1784558-1-tar-gz/pallets-click-1784558/src/click/_compat.py
```

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Found in path(s):

```
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```

1.248 get-stream 6.0.0

1.248.1 Available under license :

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1.249 core-js 3.10.2

1.249.1 Available under license :

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1.250 more-itertools 8.12.0

1.250.1 Available under license :

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1.251 hpack 4.0.0

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1.252 redux 4.0.4

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1.253 jsdom 16.5.3

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1.254 aiocron 1.8

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1.255 resolve-pathname 2.2.0

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1.256 is-window 1.0.2

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1.257 pandas 1.4.1

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In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see <http://www.cnri.reston.va.us>) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see <http://www.zope.com>). In 2001, the Python Software Foundation (PSF, see <http://www.python.org/psf/>) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

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|----------------|--------------|-----------|------------|---------------------|
| 0.9.0 thru 1.2 | | 1991-1995 | CWI | yes |
| 1.3 thru 1.5.2 | 1.2 | 1995-1999 | CNRI | yes |
| 1.6 | 1.5.2 | 2000 | CNRI | no |
| 2.0 | 1.6 | 2000 | BeOpen.com | no |
| 1.6.1 | 1.6 | 2001 | CNRI | yes (2) |
| 2.1 | 2.0+1.6.1 | 2001 | PSF | no |
| 2.0.1 | 2.0+1.6.1 | 2001 | PSF | yes |
| 2.1.1 | 2.1+2.0.1 | 2001 | PSF | yes |
| 2.2 | 2.1.1 | 2001 | PSF | yes |
| 2.1.2 | 2.1.1 | 2002 | PSF | yes |
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| 2.2.1 | 2.2 | 2002 | PSF | yes |
| 2.2.2 | 2.2.1 | 2002 | PSF | yes |
| 2.2.3 | 2.2.2 | 2003 | PSF | yes |
| 2.3 | 2.2.2 | 2002-2003 | PSF | yes |
| 2.3.1 | 2.3 | 2002-2003 | PSF | yes |
| 2.3.2 | 2.3.1 | 2002-2003 | PSF | yes |

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|-------|-------|-----------|-----|-----|
| 2.3.3 | 2.3.2 | 2002-2003 | PSF | yes |
| 2.3.4 | 2.3.3 | 2004 | PSF | yes |
| 2.3.5 | 2.3.4 | 2005 | PSF | yes |
| 2.4 | 2.3 | 2004 | PSF | yes |
| 2.4.1 | 2.4 | 2005 | PSF | yes |
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| 2.4.3 | 2.4.2 | 2006 | PSF | yes |
| 2.4.4 | 2.4.3 | 2006 | PSF | yes |
| 2.5 | 2.4 | 2006 | PSF | yes |
| 2.5.1 | 2.5 | 2007 | PSF | yes |
| 2.5.2 | 2.5.1 | 2008 | PSF | yes |
| 2.5.3 | 2.5.2 | 2008 | PSF | yes |
| 2.6 | 2.5 | 2008 | PSF | yes |
| 2.6.1 | 2.6 | 2008 | PSF | yes |
| 2.6.2 | 2.6.1 | 2009 | PSF | yes |
| 2.6.3 | 2.6.2 | 2009 | PSF | yes |
| 2.6.4 | 2.6.3 | 2009 | PSF | yes |
| 2.6.5 | 2.6.4 | 2010 | PSF | yes |
| 2.7 | 2.6 | 2010 | PSF | yes |

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1.261 wrapt 1.12.1

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1.264 mock 3.0.5

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1.265 is-stream 2.0.0

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1.266 tomli 2.0.0

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1.267 zipp 0.5.2

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1.268 amdefine 1.0.1

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1.269 kafka-python 2.0.2

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1.270 q 1.0.1

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1.271 types-classnames 2.3.1

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1.272 deprecated 1.2.13

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```
%global srcname Deprecated
%global pkgname deprecated
```

```
Name:      python-%{pkgname}
Version:   1.2.13
Release:   1%{?dist}
Summary:   Python decorator to deprecate old python classes, functions or methods
License:   MIT
URL:       https://github.com/tantale/%{pkgname}
Source0:   %{pypi_source}
BuildArch: noarch
```

```
%description
Python @deprecated decorator to deprecate old python classes,
functions or methods.
```

```
%package -n python3-%{pkgname}
Summary:   %{summary}
BuildRequires: python3-devel
BuildRequires: python3-setuptools
%{?python_provide:python_provide python3-%{pkgname}}
```

```
%description -n python3-%{pkgname}
Python @deprecated decorator to deprecate old python classes,
functions or methods.
```

```
%prep
%autosetup -n %{srcname}-%{version}
rm -rf %{pkgname}.egg-info
```

```
%build
%py3_build
```

```
%install
%py3_install
```

```
%files -n python3-%{pkgname}
%license LICENSE.rst
%doc README.md
%{python3_sitelib}/%{pkgname}/
%{python3_sitelib}/%{srcname}-%*.egg-info/
```

```
%changelog
* Fri Jul 26 2019 Petr Hracek <phracek@redhat.com> - 1.2.6-2
- Fix python3_sitelib issue

* Fri Jul 26 2019 Petr Hracek <phracek@redhat.com> - 1.2.6-1
- Initial package
```

Found in path(s):

```
* /opt/cola/permits/1664031044_1683228238.4822319/0/tantale-deprecated-v1-2-13-0-g801c558-1-tar-gz/tantale-deprecated-801c558/python-deprecated.spec
```

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```
* /opt/cola/permits/1664031044_1683228238.4822319/0/tantale-deprecated-v1-2-13-0-g801c558-1-tar-gz/tantale-deprecated-801c558/LICENSE.rst
```

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1.273 use-sidecar 1.0.5

1.273.1 Available under license :

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1.274 use-isomorphic-layout-effect 1.1.2

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1.275 fsspec 2023.4.0

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1.276 mini-css-extract-plugin 1.6.0

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1.277 webidl-conversions 5.0.0

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1.278 chalk 0.5.1

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1.279 phonenumbers 8.13.11

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1.280 @csstools/postcss-trigonometric-functions 1.0.2

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1.281 promise-polyfill 2.0.2

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1.282 postcss-selector-not 6.0.1

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1.283 future 0.18.2

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1.284 pandas 1.1.2

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Portions of code from MODP_ASCII - Ascii transformations (upper/lower, etc)

<https://github.com/client9/stringencoders>

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dateutil - Extensions to the standard Python datetime module.

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A. HISTORY OF THE SOFTWARE

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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see <http://www.cwi.nl>) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see <http://www.cnri.reston.va.us>) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see <http://www.zope.com>). In 2001, the Python Software Foundation (PSF, see <http://www.python.org/psf/>) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

All Python releases are Open Source (see <http://www.opensource.org> for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

| Release | Derived | Year | Owner | GPL- |
|---------|---------|------|-------|------|
|---------|---------|------|-------|------|

| | from | | | compatible? (1) |
|----------------|-----------|-----------|------------|-----------------|
| 0.9.0 thru 1.2 | | 1991-1995 | CWI | yes |
| 1.3 thru 1.5.2 | 1.2 | 1995-1999 | CNRI | yes |
| 1.6 | 1.5.2 | 2000 | CNRI | no |
| 2.0 | 1.6 | 2000 | BeOpen.com | no |
| 1.6.1 | 1.6 | 2001 | CNRI | yes (2) |
| 2.1 | 2.0+1.6.1 | 2001 | PSF | no |
| 2.0.1 | 2.0+1.6.1 | 2001 | PSF | yes |
| 2.1.1 | 2.1+2.0.1 | 2001 | PSF | yes |
| 2.2 | 2.1.1 | 2001 | PSF | yes |
| 2.1.2 | 2.1.1 | 2002 | PSF | yes |
| 2.1.3 | 2.1.2 | 2002 | PSF | yes |
| 2.2.1 | 2.2 | 2002 | PSF | yes |
| 2.2.2 | 2.2.1 | 2002 | PSF | yes |
| 2.2.3 | 2.2.2 | 2003 | PSF | yes |
| 2.3 | 2.2.2 | 2002-2003 | PSF | yes |
| 2.3.1 | 2.3 | 2002-2003 | PSF | yes |
| 2.3.2 | 2.3.1 | 2002-2003 | PSF | yes |
| 2.3.3 | 2.3.2 | 2002-2003 | PSF | yes |
| 2.3.4 | 2.3.3 | 2004 | PSF | yes |
| 2.3.5 | 2.3.4 | 2005 | PSF | yes |
| 2.4 | 2.3 | 2004 | PSF | yes |
| 2.4.1 | 2.4 | 2005 | PSF | yes |
| 2.4.2 | 2.4.1 | 2005 | PSF | yes |
| 2.4.3 | 2.4.2 | 2006 | PSF | yes |
| 2.4.4 | 2.4.3 | 2006 | PSF | yes |
| 2.5 | 2.4 | 2006 | PSF | yes |
| 2.5.1 | 2.5 | 2007 | PSF | yes |
| 2.5.2 | 2.5.1 | 2008 | PSF | yes |
| 2.5.3 | 2.5.2 | 2008 | PSF | yes |
| 2.6 | 2.5 | 2008 | PSF | yes |
| 2.6.1 | 2.6 | 2008 | PSF | yes |
| 2.6.2 | 2.6.1 | 2009 | PSF | yes |
| 2.6.3 | 2.6.2 | 2009 | PSF | yes |
| 2.6.4 | 2.6.3 | 2009 | PSF | yes |
| 2.6.5 | 2.6.4 | 2010 | PSF | yes |
| 2.7 | 2.6 | 2010 | PSF | yes |

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(2) According to Richard Stallman, 1.6.1 is not GPL-compatible,

because its license has a choice of law clause. According to CNRI, however, Stallman's lawyer has told CNRI's lawyer that 1.6.1 is "not incompatible" with the GPL.

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1.286 reach-router 1.3.4

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1.287 process-nextick-args 2.0.1

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1.288 through2 0.6.2

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1.289 array-find-index 1.0.2

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1.290 cffi 1.15.0

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1.291 regex 2020.11.13

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1.292 @amplitude/analytics-core 0.9.1

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1.293 rich 12.6.0

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1.294 @storybook/client-api 6.3.11

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1.295 ansi-styles 1.1.0

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```
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```

> ANSI escape codes for coloring strings in the terminal.

You probably want the higher-level [chalk](https://github.com/sindresorhus/chalk) module for styling your strings.

![screenshot](screenshot.png)

Install

Install with [npm](https://npmjs.org/package/ansi-styles): `npm install --save ansi-styles`

Example

Generates the above screenshot.

```
```js
var ansi = require('ansi-styles');

console.log(ansi.green + 'Styles:' + ansi.reset + '\n');

Object.keys(ansi).forEach(function (el) {
 var style = ansi[el];

 if (/^bg[^\B]/.test(el)) {
 style = ansi.black + style;
 }

 process.stdout.write(style + el + ansi.reset + ' ');
});
```
```

Styles

General

- reset
- bold
- italic
- underline
- blink
- inverse
- strikethrough

Text colors

- black
- red
- green

- yellow
- blue
- magenta
- cyan
- white
- default
- gray

Background colors

- bgBlack
- bgRed
- bgGreen
- bgYellow
- bgBlue
- bgMagenta
- bgCyan
- bgWhite
- bgDefault

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1.296 zope-interface 5.4.0

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1.297 lottie-web 5.7.8

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1.299 postcss-lab-function 4.2.1

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1.300 cbor 5.4.2.post1

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1.301 packaging 20.9

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1.304 aws-sam-translator 1.24.0

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1.305 postcss-color-functional-notation 4.2.4

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1.306 mysqlclient 2.0.3

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1.307 pinkie 2.0.4

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1.308 postcss-gap-properties 3.0.5

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1.309 google-api-core 2.2.2

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1.310 pytz 2020.1

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1.311 protobuf 3.14.0

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Oleg Smolsky <oleg.smolsky@gmail.com>
* MS Visual Studio error format option.
* Detect unordered_map in stl_hash.m4.
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- * gzip/zlib I/O support.

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- * Fixed warnings about generated constructors not explicitly initializing all fields (only present with certain compiler settings).
- * Added generation of field number constants.

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- * Fixed initialization ordering problem in logging code.

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- * Small patch improving performance of in Python serialization.

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- * Emacs mode for Protocol Buffers (editors/protobuf-mode.el).

Scott Stafford <scott.stafford@gmail.com>

- * Added Swap(), SwapElements(), and RemoveLast() to Reflection interface.

Alexander Melnikov <alm@sibmail.ru>

- * HPUX support.

Oliver Jowett <oliver.jowett@gmail.com>

- * Detect whether zlib is new enough in configure script.
- * Fixes for Solaris 10 32/64-bit confusion.

Evan Jones <evanj@mit.edu>

- * Optimize Java serialization code when writing a small message to a stream.
- * Optimize Java serialization of strings so that UTF-8 encoding happens only once per string per serialization call.
- * Clean up some Java warnings.
- * Fix bug with permanent callbacks that delete themselves when run.

Michael Kucharski <m.kucharski@gmail.com>

- * Added CodedInputStream.getTotalBytesRead().

Kacper Kowalik <xarthisius.kk@gmail.com>

- * Fixed m4/acx_pthread.m4 problem for some Linux distributions.

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- * Fixed detection of sched_yield on Solaris.
- * Added atomicops for Solaris

Andrew Paprocki <andrew@ishiboo.com>

- * Fixed minor IBM xLC compiler build issues
- * Added atomicops for AIX (POWER)

1.312 uglify-js 2.4.15

1.312.1 Available under license :

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1.313 responses 0.10.6

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1.315 resolve-cwd 3.0.0

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1.316 datatables.net-responsive 2.4.1

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1.317 jinja2 2.11.2

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Found in path(s):

* /opt/cola/permits/1664029362_1684259135.278351/0/jinja2-2-11-2-1-tar-gz/Jinja2-2.11.2/LICENSE.rst

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```
import io
```

```
import re
```

```
from setuptools import find_packages
```

```
from setuptools import setup
```

```
with io.open("README.rst", "rt", encoding="utf8") as f:
```

```
    readme = f.read()
```

```
with io.open("src/jinja2/__init__.py", "rt", encoding="utf8") as f:
```

```
    version = re.search(r'__version__ = "(.*?)"', f.read(), re.M).group(1)
```

```
setup(
```

```
    name="Jinja2",
```

```
    version=version,
```

```
    url="https://palletsprojects.com/p/jinja/",
```

```
    project_urls={
```

```
        "Documentation": "https://jinja.palletsprojects.com/",
```

```
        "Code": "https://github.com/pallets/jinja",
```

```
        "Issue tracker": "https://github.com/pallets/jinja/issues",
```

```
    },
```

```
    license="BSD-3-Clause",
```

```
    author="Armin Ronacher",
```

```
    author_email="armin.ronacher@active-4.com",
```

```
    maintainer="Pallets",
```

```
    maintainer_email="contact@palletsprojects.com",
```

```
    description="A very fast and expressive template engine.",
```

```
    long_description=readme,
```

```
    classifiers=[
```

```
        "Development Status :: 5 - Production/Stable",
```

```
        "Environment :: Web Environment",
```

```
        "Intended Audience :: Developers",
```

```
        "License :: OSI Approved :: BSD License",
```

```
        "Operating System :: OS Independent",
```

```
        "Programming Language :: Python",
```

```
        "Programming Language :: Python :: 2",
```

```
        "Programming Language :: Python :: 2.7",
```

```
        "Programming Language :: Python :: 3",
```

```
        "Programming Language :: Python :: 3.5",
```

```
        "Programming Language :: Python :: 3.6",
```

```
        "Programming Language :: Python :: 3.7",
```

```
        "Programming Language :: Python :: 3.8",
```

```

"Programming Language :: Python :: Implementation :: CPython",
"Programming Language :: Python :: Implementation :: PyPy",
"Topic :: Internet :: WWW/HTTP :: Dynamic Content",
"Topic :: Software Development :: Libraries :: Python Modules",
"Topic :: Text Processing :: Markup :: HTML",
],
packages=find_packages("src"),
package_dir={"": "src"},
include_package_data=True,
python_requires=">=2.7, !=3.0.*, !=3.1.*, !=3.2.*, !=3.3.*, !=3.4.*",
install_requires=["MarkupSafe>=0.23"],
extras_require={"i18n": ["Babel>=0.8"]},
entry_points={"babel.extractors": ["jinja2 = jinja2.ext:babel_extract[i18n]"]},
)

```

Found in path(s):

```
* /opt/cola/permits/1664029362_1684259135.278351/0/jinja2-2-11-2-1-tar-gz/Jinja2-2.11.2/setup.py
```

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Metadata-Version: 2.1

Name: Jinja2

Version: 2.11.2

Summary: A very fast and expressive template engine.

Home-page: <https://palletsprojects.com/p/jinja/>

Author: Armin Ronacher

Author-email: armin.ronacher@active-4.com

Maintainer: Pallets

Maintainer-email: contact@palletsprojects.com

License: BSD-3-Clause

Project-URL: Documentation, <https://jinja.palletsprojects.com/>

Project-URL: Code, <https://github.com/pallets/jinja>

Project-URL: Issue tracker, <https://github.com/pallets/jinja/issues>

Description: Jinja

=====

Jinja is a fast, expressive, extensible templating engine. Special placeholders in the template allow writing code similar to Python syntax. Then the template is passed data to render the final document.

It includes:

- Template inheritance and inclusion.
- Define and import macros within templates.
- HTML templates can use autoescaping to prevent XSS from untrusted user input.
- A sandboxed environment can safely render untrusted templates.
- AsyncIO support for generating templates and calling async functions.

- I18N support with Babel.
- Templates are compiled to optimized Python code just-in-time and cached, or can be compiled ahead-of-time.
- Exceptions point to the correct line in templates to make debugging easier.
- Extensible filters, tests, functions, and even syntax.

Jinja's philosophy is that while application logic belongs in Python if possible, it shouldn't make the template designer's job difficult by restricting functionality too much.

Installing

Install and update using `pip`:

```
.. code-block:: text
```

```
$ pip install -U Jinja2
```

```
.. _pip: https://pip.pypa.io/en/stable/quickstart/
```

In A Nutshell

```
.. code-block:: jinja
```

```
{% extends "base.html" %}
{% block title %}Members{% endblock %}
{% block content %}
<ul>
  {% for user in users %}
    <li><a href="{{ user.url }}">{{ user.username }}</a></li>
  {% endfor %}
</ul>
{% endblock %}
```

Links

- Website: <https://palletsprojects.com/p/jinja/>
- Documentation: <https://jinja.palletsprojects.com/>
- Releases: <https://pypi.org/project/Jinja2/>
- Code: <https://github.com/pallets/jinja>
- Issue tracker: <https://github.com/pallets/jinja/issues>

- Test status: https://dev.azure.com/pallets/jinja/_build
- Official chat: <https://discord.gg/t6rrQZH>

Platform: UNKNOWN

Classifier: Development Status :: 5 - Production/Stable

Classifier: Environment :: Web Environment

Classifier: Intended Audience :: Developers

Classifier: License :: OSI Approved :: BSD License

Classifier: Operating System :: OS Independent

Classifier: Programming Language :: Python

Classifier: Programming Language :: Python :: 2

Classifier: Programming Language :: Python :: 2.7

Classifier: Programming Language :: Python :: 3

Classifier: Programming Language :: Python :: 3.5

Classifier: Programming Language :: Python :: 3.6

Classifier: Programming Language :: Python :: 3.7

Classifier: Programming Language :: Python :: 3.8

Classifier: Programming Language :: Python :: Implementation :: CPython

Classifier: Programming Language :: Python :: Implementation :: PyPy

Classifier: Topic :: Internet :: WWW/HTTP :: Dynamic Content

Classifier: Topic :: Software Development :: Libraries :: Python Modules

Classifier: Topic :: Text Processing :: Markup :: HTML

Requires-Python: >=2.7, !=3.0.*, !=3.1.*, !=3.2.*, !=3.3.*, !=3.4.*

Description-Content-Type: text/x-rst

Provides-Extra: i18n

Found in path(s):

* /opt/cola/permits/1664029362_1684259135.278351/0/jinja2-2-11-2-1-tar-gz/Jinja2-2.11.2/PKG-INFO

* /opt/cola/permits/1664029362_1684259135.278351/0/jinja2-2-11-2-1-tar-gz/Jinja2-2.11.2/src/Jinja2.egg-info/PKG-INFO

1.318 mock 4.0.2

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1.319 character-entities-legacy 1.1.4

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1.321 @storybook/api 6.3.11

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1.325 @csstools/postcss-font-format-keywords 1.0.1

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1.326 numpy 1.22.2

1.326.1 Available under license :

This binary distribution of NumPy also bundles the following software:

Name: OpenBLAS

Files: .libs/libopenb*.so

Description: bundled as a dynamically linked library

Availability: <https://github.com/xianyi/OpenBLAS/>

License: 3-clause BSD

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Name: LAPACK

Files: .libs/libopenb*.so

Description: bundled in OpenBLAS

Availability: <https://github.com/xianyi/OpenBLAS/>

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Name: GCC runtime library

Files: .libs/libgfortran*.so

Description: dynamically linked to files compiled with gcc

Availability: <https://gcc.gnu.org/viewcvs/gcc/>

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Version 3.1, 31 March 2009

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Description: dynamically linked to files compiled with gcc

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PCG Random Number Generation for C.

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Adapted from a C++ implementation of Chris Doty-Humphrey's SFC PRNG.

<https://gist.github.com/immeme/f1f7821f07cf76504a97f6537c818083>

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MT19937

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Original algorithm for the implementation of `rk_interval` function from Richard J. Wagner's implementation of the Mersenne Twister RNG, optimised by Magnus Jonsson.

Constants used in the `rk_double` implementation by Isaku Wada.

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1.329 confluent_kafka 0.11.6

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For the files wingetopt.c wingetopt.h downloaded from <https://github.com/alex85k/wingetopt>

```
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1.330 @types/hast 2.3.1

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1.331 sshpubkeys 3.1.0

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```
from setuptools import setup
from codecs import open as codecs_open
from os import path

here = path.abspath(path.dirname(__file__))

with codecs_open(path.join(here, 'README.rst'), encoding='utf-8') as f:
    long_description = f.read()

setup(
    name='sshpubkeys',
    version='3.1.0',
    description='SSH public key parser',
    long_description=long_description,
    url='https://github.com/ojarva/python-sshpubkeys',
    author='Olli Jarva',
    author_email='olli@jarva.fi',
    license='BSD',

    classifiers=[
        'Development Status :: 4 - Beta',

        'Intended Audience :: Developers',
        'Intended Audience :: System Administrators',
        'Topic :: Security',
        'License :: OSI Approved :: BSD License',

        'Programming Language :: Python :: 2.6',
        'Programming Language :: Python :: 2.7',
        'Programming Language :: Python :: 3',
        'Programming Language :: Python :: 3.2',
        'Programming Language :: Python :: 3.3',
        'Programming Language :: Python :: 3.4',
        'Programming Language :: Python :: 3.5',
        'Programming Language :: Python :: Implementation :: PyPy',
    ],
    keywords='ssh pubkey public key openssh ssh-rsa ssh-dss ssh-ed25519',
    packages=["sshpubkeys"],
    test_suite="tests",
    install_requires=['cryptography>=2.1.4', 'ecdsa>=0.13'],

    extras_require={
        'dev': ['twine', 'wheel'],
    },
)
```

Found in path(s):

* /opt/cola/permits/1664030007_1683307966.8925261/0/sshpubkeys-3-1-0-1-tar-gz/sshpubkeys-3.1.0/setup.py

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Metadata-Version: 1.1

Name: sshpubkeys

Version: 3.1.0

Summary: SSH public key parser

Home-page: <https://github.com/ojarva/python-sshpubkeys>

Author: Olli Jarva

Author-email: olli@jarva.fi

License: BSD

Description: OpenSSH Public Key Parser for Python

=====

.. image:: <https://travis-ci.org/ojarva/python-sshpubkeys.svg?branch=master>

:target: <https://travis-ci.org/ojarva/python-sshpubkeys>

Major changes between versions 2 and 3

- Dropped support for Python 2.6 and 3.3
- Even in loose mode, DSA keys must be 1024, 2048, or 3072 bits (earlier this was looser)
- The interface (API) is exactly the same

Usage

Native implementation for validating OpenSSH public keys.

Currently ssh-rsa, ssh-dss (DSA), ssh-ed25519 and ecdsa keys with NIST curves are supported.

Installation:

::

```
pip install sshpubkeys
```

or clone the `repository <<https://github.com/ojarva/sshpubkeys>>`_ and use

::

```
python setup.py install
```

Usage:

```

::

import sys
from sshpubkeys import SSHKey

ssh = SSHKey("ssh-rsa AAAAB3NzaC1yc2EAAAADAQABAAQYQCxO38tKAJXIs9ivPxt7AY"
            "dfybgAR1ow3Qkb9GPQ6wkFHQqcFDe6faKCxH6iDRteo4D8L8B"
            "xwzN42uZSB0nfmjkIxFTcEU3mFSXEbWByg78aoddMrAAjatyrh"
            "H1pON6P0= ojarva@ojar-laptop", strict=True)

try:
    ssh.parse()
except InvalidKeyError as err:
    print("Invalid key:", err)
    sys.exit(1)
except NotImplementedError as err:
    print("Invalid key type:", err)
    sys.exit(1)

print(ssh.bits) # 768
print(ssh.hash_md5()) # 56:84:1e:90:08:3b:60:c7:29:70:5f:5e:25:a6:3b:86
print(ssh.hash_sha256()) # SHA256:xk3IEJIdIoR9MmSRXTP98rjDdZocmXJje/28ohMQEwM
print(ssh.hash_sha512()) #
SHA512:1C31NBhjpDVQe39hnyy+xvLZYU3IPwzqK1rVneGavy6O3/ebjEQSFvmeWoyMTplIanmUK1hmr9nA8S
kmj516HA

print(ssh.comment) # ojar@ojar-laptop
print(ssh.options_raw) # None (string of optional options at the beginning of public key)
print(ssh.options) # None (options as a dictionary, parsed and validated)

Parsing of `authorized_keys` files:

::

from sshpubkeys import AuthorizedKeysFile

key_file = AuthorizedKeysFile("""ssh-ed25519
AAAAC3NzaC1lZDI1NTE5AAAAIEGODBKRsFB/1v3pDRGpA6xR+QpOJg9vat0brlbUNDD\n""")
    """#This is a comment\n\n""")
    """ecdsa-sha2-nistp521
AAAAE2VjZHNhLXNoYTItbmlzdHA1MjEAAAABmlzdHA1MjEAAACFBFAF9QpvUneTvt8""")
    """lu0ePSuzr7iLE9ZMPu2DFTmqh7BVn89IHuQ5dfg9pArxfHZWgu9lMdlOykVx0l6OXkE35A/mFqwwApyiPmi
wno""")
    """jmRnN//pApl6QQFINHzV/PGOSi599F1Y2tHQwcdB44CPOhkUmHtC9wKazSvw/ivbxNjcMzhHsWGnA==""")
    """

    strict=True, disallow_options=True)

for key in key_file.keys:
    print(key.key_type, key.bits, key.hash_512())

```

Options

Set options in constructor as a keywords (i.e., `SSHKey(None, strict=False)`)

- strict: defaults to True. Disallows keys OpenSSH's ssh-keygen refuses to create. For instance, this includes DSA keys where length != 1024 bits and RSA keys shorter than 1024-bit. If set to False, tries to allow all keys OpenSSH accepts, including highly insecure 1-bit DSA keys.
- skip_option_parsing: if set to True, options string is not parsed (ssh.options_raw is populated, but ssh.options is not).
- disallow_options: if set to True, options are not allowed and it will raise an InvalidOptionsError.

Exceptions

- NotImplementedError if invalid ecdsa curve or unknown key type is encountered.
- InvalidKeyError if any other error is encountered:
 - TooShortKeyError if key is too short (<768 bits for RSA, <1024 for DSA, <256 for ED25519)
 - TooLongKeyError if key is too long (>16384 for RSA, >1024 for DSA, >256 for ED25519)
 - InvalidTypeError if key type ("ssh-rsa" in above example) does not match to what is included in base64 encoded data.
- MalformedDataError if decoding and extracting the data fails.
- InvalidOptionsError if options string is invalid.
 - InvalidOptionNameError if option name contains invalid characters.
 - UnknownOptionNameError if option name is not recognized.
 - MissingMandatoryOptionValueError if option needs to have parameter, but it is absent.

Tests

See "`tests/` <<https://github.com/ojarva/sshpubkeys/tree/master/tests>>`_" folder for unit tests. Use

::

```
python setup.py test
```

or

::

```
python3 setup.py test
```

to run test suite. If you have keys that are not parsed properly, or malformed keys that raise incorrect exception, please send your `*public key*` to `olli@jarva.fi`, and I'll include it. Alternatively, ``create a new issue` <<https://github.com/ojarva/sshpubkeys/issues/new>>`_ or make ``a pull request` <<https://github.com/ojarva/sshpubkeys/compare>>`_ in github.

Keywords: ssh pubkey public key openssh ssh-rsa ssh-dss ssh-ed25519

Platform: UNKNOWN

Classifier: Development Status :: 4 - Beta

Classifier: Intended Audience :: Developers

Classifier: Intended Audience :: System Administrators

Classifier: Topic :: Security

Classifier: License :: OSI Approved :: BSD License

Classifier: Programming Language :: Python :: 2.6

Classifier: Programming Language :: Python :: 2.7

Classifier: Programming Language :: Python :: 3

Classifier: Programming Language :: Python :: 3.2

Classifier: Programming Language :: Python :: 3.3

Classifier: Programming Language :: Python :: 3.4

Classifier: Programming Language :: Python :: 3.5

Classifier: Programming Language :: Python :: Implementation :: PyPy

Found in path(s):

* /opt/cola/permits/1664030007_1683307966.8925261/0/sshpubkeys-3-1-0-1-tar-gz/sshpubkeys-3.1.0/sshpubkeys.egg-info/PKG-INFO

* /opt/cola/permits/1664030007_1683307966.8925261/0/sshpubkeys-3-1-0-1-tar-gz/sshpubkeys-3.1.0/PKG-INFO

1.332 opentelemetry_sdk 1.1.0

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1.333 pytz-deprecation-shim 0.1.0.post0

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1.338 python-lxml 4.9.1

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1.347 gspread 4.0.0

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1.348 react-lifecycles-compat 3.0.4

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1.349 markdown-to-jsx 7.1.7

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1.350 interpret 2.2.0

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1.351 @discoveryjs/json-ext 0.5.2

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1.352 moment-timezone 0.5.34

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1.353 packaging 19.1

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1.354 python-dateutil 2.7.3

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1.355 @csstools/postcss-oklab-function 1.1.1

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1.356 aiokafka 0.7.0

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1.357 colorette 1.2.1

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1.358 overlayscrollbars 1.13.1

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1.359 react-transition-group 2.3.1

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1.361 isarray 0.0.1

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1.362 six 1.16.0

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The primary author and maintainer of six is Benjamin Peterson. He would like to acknowledge the following people who submitted bug reports, pull requests, and otherwise worked to improve six:

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Alexander Artemenko
Aymeric Augustin
Lee Ball
Ben Bariteau
Ned Batchelder
Wouter Bolsterlee
Brett Cannon
Jason R. Coombs
Julien Danjou
Ben Darnell
Ben Davis
Jon Dufresne
Tim Graham
Thomas Grainger
Max Grender-Jones
Pierre Grimaud
Joshua Harlow
Toshiki Kataoka

Hugo van Kemenade
Anselm Kruis
Ivan Levkivskyi
Alexander Lukanin
James Mills
Jordan Moldow
Berker Peksag
Sridhar Ratnakumar
Erik Rose
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1.363 tiny-emitter 2.1.0

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1.364 mini-create-react-context 0.3.3

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1.365 warning 3.0.0

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1.366 markupsafe 1.1.1

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```
/**
 * markupsafe._speedups
 * ~~~~~
 *
 * C implementation of escaping for better performance. Used instead of
 * the native Python implementation when compiled.
 *
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```

*/

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1.367 dom-helpers 3.4.0

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1.368 jmespath 0.9.3

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1.371 black 20.8b1

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The `_Black_` code style

Code style

`_Black_` reformats entire files in place. It is not configurable. It doesn't take previous formatting into account. It doesn't reformat blocks that start with ``# fmt: off`` and end with ``# fmt: on``. ``# fmt: on/off`` have to be on the same level of indentation. It also recognizes [YAPF](https://github.com/google/yapf)'s block comments to the same effect, as a courtesy for straddling code.

How `_Black_` wraps lines

`_Black_` ignores previous formatting and applies uniform horizontal and vertical whitespace to your code. The rules for horizontal whitespace can be summarized as: do whatever makes ``pycodestyle`` happy. The coding style used by `_Black_` can be viewed as a

strict subset of PEP 8.

As for vertical whitespace, `_Black_` tries to render one full expression or simple statement per line. If this fits the allotted line length, great.

```
```py3
in:

j = [1,
 2,
 3
]

out:

j = [1, 2, 3]
```
```

If not, `_Black_` will look at the contents of the first outer matching brackets and put that in a separate indented line.

```
```py3
in:

ImportantClass.important_method(exc, limit, lookup_lines, capture_locals, extra_argument)

out:

ImportantClass.important_method(
 exc, limit, lookup_lines, capture_locals, extra_argument
)
```
```

If that still doesn't fit the bill, it will decompose the internal expression further using the same rule, indenting matching brackets every time. If the contents of the matching brackets pair are comma-separated (like an argument list, or a dict literal, and so on) then `_Black_` will first try to keep them on the same line with the matching brackets. If that doesn't work, it will put all of them in separate lines.

```
```py3
in:

def very_important_function(template: str, *variables, file: os.PathLike, engine: str, header: bool = True, debug: bool = False):
 """Applies `variables` to the `template` and writes to `file`."""
 with open(file, 'w') as f:
 ...
```
```



```

# out:

def very_important_function(
    template: str,
    *variables,
    file: os.PathLike,
    engine: str,
    header: bool = True,
    debug: bool = False,
):
    """Applies `variables` to the `template` and writes to `file`."""
    with open(file, "w") as f:
        ...
    ...

```

`_Black_` prefers parentheses over backslashes, and will remove backslashes if found.

```

```py3
in:

if some_short_rule1 \
 and some_short_rule2:
 ...

out:

if some_short_rule1 and some_short_rule2:
 ...

in:

if some_long_rule1 \
 and some_long_rule2:
 ...

out:

if (
 some_long_rule1
 and some_long_rule2
):
 ...

```

Backslashes and multiline strings are one of the two places in the Python grammar that break significant indentation. You never need backslashes, they are used to force the

grammar to accept breaks that would otherwise be parse errors. That makes them confusing to look at and brittle to modify. This is why `_Black_` always gets rid of them.

If you're reaching for backslashes, that's a clear signal that you can do better if you slightly refactor your code. I hope some of the examples above show you that there are many ways in which you can do it.

However there is one exception: ``with`` statements using multiple context managers. Python's grammar does not allow organizing parentheses around the series of context managers.

We don't want formatting like:

```
```py3
with make_context_manager1() as cm1, make_context_manager2() as cm2, make_context_manager3() as cm3,
make_context_manager4() as cm4:
    ... # nothing to split on - line too long
```
```

So `_Black_` will now format it like this:

```
```py3
with \
    make_context_manager(1) as cm1, \
    make_context_manager(2) as cm2, \
    make_context_manager(3) as cm3, \
    make_context_manager(4) as cm4 \
:
    ... # backslashes and an ugly stranded colon
```
```

You might have noticed that closing brackets are always dedented and that a trailing comma is always added. Such formatting produces smaller diffs; when you add or remove an element, it's always just one line. Also, having the closing bracket dedented provides a clear delimiter between two distinct sections of the code that otherwise share the same indentation level (like the arguments list and the docstring in the example above).

If a data structure literal (tuple, list, set, dict) or a line of "from" imports cannot fit in the allotted length, it's always split into one element per line. This minimizes diffs as well as enables readers of code to find which commit introduced a particular entry. This also makes `_Black_` compatible with `[isort](https://pypi.org/p/isort/)` with the following configuration.

```
<details>
<summary>A compatible .isort.cfg`</summary>
```

```
```cfg
[settings]
```

```
multi_line_output = 3
include_trailing_comma = True
force_grid_wrap = 0
use_parentheses = True
ensure_newline_before_comments = True
line_length = 88
...
```

The equivalent command line is:

```
...
$ isort --multi-line=3 --trailing-comma --force-grid-wrap=0 --use-parentheses --line-width=88 [ file.py ]
...
```

</details>

Line length

You probably noticed the peculiar default line length. `_Black_` defaults to 88 characters per line, which happens to be 10% over 80. This number was found to produce significantly shorter files than sticking with 80 (the most popular), or even 79 (used by the standard library). In general, [90-ish seems like the wise choice](<https://youtu.be/wf-BqAjZb8M?t=260>).

If you're paid by the line of code you write, you can pass `--line-length`` with a lower number. `_Black_` will try to respect that. However, sometimes it won't be able to without breaking other rules. In those rare cases, auto-formatted code will exceed your allotted limit.

You can also increase it, but remember that people with sight disabilities find it harder to work with line lengths exceeding 100 characters. It also adversely affects side-by-side diff review on typical screen resolutions. Long lines also make it harder to present code neatly in documentation or talk slides.

If you're using Flake8, you can bump `max-line-length`` to 88 and forget about it. Alternatively, use [Bugbear](<https://github.com/PyCQA/flake8-bugbear>)'s B950 warning instead of E501 and keep the max line length at 80 which you are probably already using. You'd do it like this:

```
```.ini
[flake8]
max-line-length = 80
...
select = C,E,F,W,B,B950
ignore = E203, E501, W503
...
```

You'll find `_Black_`'s own `.flake8` config file is configured like this. Explanation of

why W503 and E203 are disabled can be found further in this documentation. And if you're curious about the reasoning behind B950, [Bugbear's documentation](https://github.com/PyCQA/flake8-bugbear#opinionated-warnings) explains it. The tl;dr is "it's like highway speed limits, we won't bother you if you overdo it by a few km/h".

**\*\*If you're looking for a minimal, black-compatible flake8 configuration:\*\***

```
```.ini
[flake8]
max-line-length = 88
extend-ignore = E203
```.
```

### ### Empty lines

`_Black_` avoids spurious vertical whitespace. This is in the spirit of PEP 8 which says that in-function vertical whitespace should only be used sparingly.

`_Black_` will allow single empty lines inside functions, and single and double empty lines on module level left by the original editors, except when they're within parenthesized expressions. Since such expressions are always reformatted to fit minimal space, this whitespace is lost.

It will also insert proper spacing before and after function definitions. It's one line before and after inner functions and two lines before and after module-level functions and classes. `_Black_` will not put empty lines between function/class definitions and standalone comments that immediately precede the given function/class.

`_Black_` will enforce single empty lines between a class-level docstring and the first following field or method. This conforms to [PEP 257](https://www.python.org/dev/peps/pep-0257/#multi-line-docstrings).

`_Black_` won't insert empty lines after function docstrings unless that empty line is required due to an inner function starting immediately after.

### ### Trailing commas

`_Black_` will add trailing commas to expressions that are split by comma where each element is on its own line. This includes function signatures.

Unnecessary trailing commas are removed if an expression fits in one line. This makes it 1% more likely that your line won't exceed the allotted line length limit. Moreover, in this scenario, if you added another argument to your call, you'd probably fit it in the same line anyway. That doesn't make diffs any larger.

One exception to removing trailing commas is tuple expressions with just one element. In this case `_Black_` won't touch the single trailing comma as this would unexpectedly

change the underlying data type. Note that this is also the case when commas are used while indexing. This is a tuple in disguise: ``numpy_array[3, ]``.

One exception to adding trailing commas is function signatures containing ``*`, `*args`, or `**kwargs``. In this case a trailing comma is only safe to use on Python 3.6. `_Black_` will detect if your file is already 3.6+ only and use trailing commas in this situation. If you wonder how it knows, it looks for f-strings and existing use of trailing commas in function signatures that have stars in them. In other words, if you'd like a trailing comma in this situation and `_Black_` didn't recognize it was safe to do so, put it there manually and `_Black_` will keep it.

### ### Strings

`_Black_` prefers double quotes (``"`` and ``""``) over single quotes (``'`` and ``'''``). It will replace the latter with the former as long as it does not result in more backslash escapes than before.

`_Black_` also standardizes string prefixes, making them always lowercase. On top of that, if your code is already Python 3.6+ only or it's using the ``unicode_literals`` future import, `_Black_` will remove ``u`` from the string prefix as it is meaningless in those scenarios.

The main reason to standardize on a single form of quotes is aesthetics. Having one kind of quotes everywhere reduces reader distraction. It will also enable a future version of `_Black_` to merge consecutive string literals that ended up on the same line (see [#26](https://github.com/psf/black/issues/26) for details).

Why settle on double quotes? They anticipate apostrophes in English text. They match the docstring standard described in [PEP 257](https://www.python.org/dev/peps/pep-0257/#what-is-a-docstring). An empty string in double quotes (``""``) is impossible to confuse with a one double-quote regardless of fonts and syntax highlighting used. On top of this, double quotes for strings are consistent with C which Python interacts a lot with.

On certain keyboard layouts like US English, typing single quotes is a bit easier than double quotes. The latter requires use of the Shift key. My recommendation here is to keep using whatever is faster to type and let `_Black_` handle the transformation.

If you are adopting `_Black_` in a large project with pre-existing string conventions (like the popular ["single quotes for data, double quotes for human-readable strings"](https://stackoverflow.com/a/56190)), you can pass ``--skip-string-normalization`` on the command line. This is meant as an adoption helper, avoid using this for new projects.

### ### Numeric literals

`_Black_` standardizes most numeric literals to use lowercase letters for the syntactic parts and uppercase letters for the digits themselves: ``0xAB`` instead of ``0XAB`` and

`1e10` instead of `1E10`. Python 2 long literals are styled as `2L` instead of `2l` to avoid confusion between `l` and `1`.

### ### Line breaks & binary operators

`_Black_` will break a line before a binary operator when splitting a block of code over multiple lines. This is so that `_Black_` is compliant with the recent changes in the [PEP 8](<https://www.python.org/dev/peps/pep-0008/#should-a-line-break-before-or-after-a-binary-operator>) style guide, which emphasizes that this approach improves readability.

This behaviour may raise `W503 line break before binary operator` warnings in style guide enforcement tools like Flake8. Since `W503` is not PEP 8 compliant, you should tell Flake8 to ignore these warnings.

### ### Slices

#### PEP 8

[recommends](<https://www.python.org/dev/peps/pep-0008/#whitespace-in-expressions-and-statements>) to treat `:` in slices as a binary operator with the lowest priority, and to leave an equal amount of space on either side, except if a parameter is omitted (e.g. `ham[1 + 1 :]`). It recommends no spaces around `:` operators for "simple expressions" (`ham[lower:upper]`), and extra space for "complex expressions" (`ham[lower : upper + offset]`). `_Black_` treats anything more than variable names as "complex" (`ham[lower : upper + 1]`). It also states that for extended slices, both `:` operators have to have the same amount of spacing, except if a parameter is omitted (`ham[1 + 1 ::]`). `_Black_` enforces these rules consistently.

This behaviour may raise `E203 whitespace before ':'` warnings in style guide enforcement tools like Flake8. Since `E203` is not PEP 8 compliant, you should tell Flake8 to ignore these warnings.

### ### Parentheses

Some parentheses are optional in the Python grammar. Any expression can be wrapped in a pair of parentheses to form an atom. There are a few interesting cases:

- `if (...)`
- `while (...)`
- `for (...) in (...)`
- `assert (...), (...)`
- `from X import (...)`
- assignments like:
  - `target = (...)`
  - `target: type = (...)`
  - `some, \*un, packing = (...)`
  - `augmented += (...)`

In those cases, parentheses are removed when the entire statement fits in one line, or

if the inner expression doesn't have any delimiters to further split on. If there is only a single delimiter and the expression starts or ends with a bracket, the parenthesis can also be successfully omitted since the existing bracket pair will organize the expression neatly anyway. Otherwise, the parentheses are added.

Please note that `_Black_` does not add or remove any additional nested parentheses that you might want to have for clarity or further code organization. For example those parentheses are not going to be removed:

```
```py3
return not (this or that)
decision = (maybe.this() and values > 0) or (maybe.that() and values < 0)
```
```

### ### Call chains

Some popular APIs, like ORMs, use call chaining. This API style is known as a [fluent interface]([https://en.wikipedia.org/wiki/Fluent\\_interface](https://en.wikipedia.org/wiki/Fluent_interface)). `_Black_` formats those by treating dots that follow a call or an indexing operation like a very low priority delimiter. It's easier to show the behavior than to explain it. Look at the example:

```
```py3
def example(session):
    result = (
        session.query(models.Customer.id)
        .filter(
            models.Customer.account_id == account_id,
            models.Customer.email == email_address,
        )
        .order_by(models.Customer.id.asc())
        .all()
    )
```
```

### ### Typing stub files

PEP 484 describes the syntax for type hints in Python. One of the use cases for typing is providing type annotations for modules which cannot contain them directly (they might be written in C, or they might be third-party, or their implementation may be overly dynamic, and so on).

To solve this, [stub files with the `.pyi` file extension](https://www.python.org/dev/peps/pep-0484/#stub-files) can be used to describe typing information for an external module. Those stub files omit the implementation of classes and functions they describe, instead they only contain the structure of the file (listing globals, functions, and classes with their members). The recommended code style for those files is more terse than PEP 8:`

- prefer `...` on the same line as the class/function signature;
- avoid vertical whitespace between consecutive module-level functions, names, or methods and fields within a single class;
- use a single blank line between top-level class definitions, or none if the classes are very small.

`_Black_` enforces the above rules. There are additional guidelines for formatting `.pyi` file that are not enforced yet but might be in a future version of the formatter:`

- all function bodies should be empty (contain `...` instead of the body);
- do not use docstrings;
- prefer `...` over `pass`;
- for arguments with a default, use `...` instead of the actual default;
- avoid using string literals in type annotations, stub files support forward references natively (like Python 3.7 code with `from \_\_future\_\_ import annotations`);
- use variable annotations instead of type comments, even for stubs that target older versions of Python;
- for arguments that default to `None`, use `Optional[]` explicitly;
- use `float` instead of `Union[int, float]`.

### ## Pragmatism

Early versions of `_Black_` used to be absolutist in some respects. They took after its initial author. This was fine at the time as it made the implementation simpler and there were not many users anyway. Not many edge cases were reported. As a mature tool, `_Black_` does make some exceptions to rules it otherwise holds. This section documents what those exceptions are and why this is the case.

#### ### The magic trailing comma

`_Black_` in general does not take existing formatting into account.

However, there are cases where you put a short collection or function call in your code but you anticipate it will grow in the future.

For example:

```
```py3
TRANSLATIONS = {
    "en_us": "English (US)",
    "pl_pl": "polski",
}
```
```

Early versions of `_Black_` used to ruthlessly collapse those into one line (it fits!). Now, you can communicate that you don't want that by putting a trailing comma in the collection yourself. When you do, `_Black_` will know to always explode your collection



into one item per line.

How do you make it stop? Just delete that trailing comma and `_Black_` will collapse your collection into one line if it fits.

### r"strings" and R"strings"

`_Black_` normalizes string quotes as well as string prefixes, making them lowercase. One exception to this rule is r-strings. It turns out that the very popular [MagicPython](https://github.com/MagicStack/MagicPython/) syntax highlighter, used by default by (among others) GitHub and Visual Studio Code, differentiates between r-strings and R-strings. The former are syntax highlighted as regular expressions while the latter are treated as true raw strings with no special semantics.

```
--- [Deterministic header]
+++ [Deterministic header]
@@ -1,8 +1,8 @@
...
-'some_string'
-b'\xa3'
+"some_string"
+b"\xa3"
Name
None
True
False
1
@@ -29,63 +29,96 @@
~great
+value
-1
~int and not v1 ^ 123 + v2 | True
(~int) and (not ((v1 ^ (123 + v2)) | True))
-+really ** -confusing ** ~operator ** -precedence
-flags & ~ select.EPOLLIN and waiters.write_task is not None
++(really ** -(confusing ** ~(operator ** -precedence)))
+flags & ~select.EPOLLIN and waiters.write_task is not None
lambda arg: None
lambda a=True: a
lambda a, b, c=True: a
-lambda a, b, c=True, *, d=(1 << v2), e='str': a
-lambda a, b, c=True, *vararg, d=(v1 << 2), e='str', **kwargs: a + b
+lambda a, b, c=True, *, d=(1 << v2), e="str": a
+lambda a, b, c=True, *vararg, d=(v1 << 2), e="str", **kwargs: a + b
manylambdas = lambda x=lambda y=lambda z=1: z: y(): x()
-foo = (lambda port_id, ignore_missing: {"port1": port1_resource, "port2": port2_resource}[port_id])
+foo = lambda port_id, ignore_missing: {
+ "port1": port1_resource,
+ "port2": port2_resource,
```

```

+}[port_id]
1 if True else 2
str or None if True else str or bytes or None
(str or None) if True else (str or bytes or None)
str or None if (1 if True else 2) else str or bytes or None
(str or None) if (1 if True else 2) else (str or bytes or None)
-((super_long_variable_name or None) if (1 if super_long_test_name else 2) else (str or bytes or None))
-{'2.7': dead, '3.7': (long_live or die_hard)}
-{'2.7': dead, '3.7': (long_live or die_hard), **{'3.6': verygood}}
+(
+ (super_long_variable_name or None)
+ if (1 if super_long_test_name else 2)
+ else (str or bytes or None)
+)
+{"2.7": dead, "3.7": (long_live or die_hard)}
+{"2.7": dead, "3.7": (long_live or die_hard), **{"3.6": verygood}}
{**a, **b, **c}
-{'2.7', '3.6', '3.7', '3.8', '3.9', ('4.0' if gilectomy else '3.10')}
-({'a': 'b'}, (True or False), (+value), 'string', b'bytes') or None
+{"2.7", "3.6", "3.7", "3.8", "3.9", ("4.0" if gilectomy else "3.10")}
+({'a': "b"}, (True or False), (+value), "string", b"bytes") or None
()
(1,)
(1, 2)
(1, 2, 3)
[]
[1, 2, 3, 4, 5, 6, 7, 8, 9, (10 or A), (11 or B), (12 or C)]
-[1, 2, 3,]
+[
+ 1,
+ 2,
+ 3,
+]
[*a]
[*range(10)]
-[*a, 4, 5,]
-[4, *a, 5,]
-[this_is_a_very_long_variable_which_will_force_a_delimiter_split, element, another, *more]
+[
+ *a,
+ 4,
+ 5,
+]
+[
+ 4,
+ *a,
+ 5,
+]

```

```

+[
+ this_is_a_very_long_variable_which_will_force_a_delimiter_split,
+ element,
+ another,
+ *more,
+]
{i for i in (1, 2, 3)}
{(i ** 2) for i in (1, 2, 3)}
-{(i ** 2) for i, _ in ((1, 'a'), (2, 'b'), (3, 'c'))}
+{(i ** 2) for i, _ in ((1, "a"), (2, "b"), (3, "c"))}
{((i ** 2) + j) for i in (1, 2, 3) for j in (1, 2, 3)}
[i for i in (1, 2, 3)]
[(i ** 2) for i in (1, 2, 3)]
-[(i ** 2) for i, _ in ((1, 'a'), (2, 'b'), (3, 'c'))]
+[(i ** 2) for i, _ in ((1, "a"), (2, "b"), (3, "c"))]
[[(i ** 2) + j for i in (1, 2, 3) for j in (1, 2, 3)]
{i: 0 for i in (1, 2, 3)}
- {i: j for i, j in ((1, 'a'), (2, 'b'), (3, 'c'))}
+ {i: j for i, j in ((1, "a"), (2, "b"), (3, "c"))}
{a: b * 2 for a, b in dictionary.items()}
{a: b * -2 for a, b in dictionary.items()}
- {k: v for k, v in
this_is_a_very_long_variable_which_will_cause_a_trailing_comma_which_breaks_the_comprehension}
+ {
+ k: v
+ for k, v in
this_is_a_very_long_variable_which_will_cause_a_trailing_comma_which_breaks_the_comprehension
+ }
Python3 > Python2 > COBOL
Life is Life
call()
call(arg)
-call(kwarg='hey')
-call(arg, kwarg='hey')
-call(arg, another, kwarg='hey', **kwargs)
-call(this_is_a_very_long_variable_which_will_force_a_delimiter_split, arg, another, kwarg='hey', **kwargs) #
note: no trailing comma pre-3.6
+call(kwarg="hey")
+call(arg, kwarg="hey")
+call(arg, another, kwarg="hey", **kwargs)
+call(
+ this_is_a_very_long_variable_which_will_force_a_delimiter_split,
+ arg,
+ another,
+ kwarg="hey",
+ **kwargs
+) # note: no trailing comma pre-3.6
call(*gidgets[:2])

```

```

call(a, *gidgets[:2])
call(**self.screen_kwargs)
call(b, **self.screen_kwargs)
lukasz.langa.pl
@@ -94,26 +127,29 @@
1.0 .real
....__class__
list[str]
dict[str, int]
tuple[str, ...]
+tuple[str, int, float, dict[str, int]]
tuple[
- str, int, float, dict[str, int]
-]
-tuple[str, int, float, dict[str, int],]
+ str,
+ int,
+ float,
+ dict[str, int],
+]
very_long_variable_name_filters: t.List[
 t.Tuple[str, t.Union[str, t.List[t.Optional[str]]]]
]
xxxx_xxxxx_xxxx_xxx: Callable[..., List[SomeClass]] = classmethod(# type: ignore
 sync(async_xxxx_xxx_xxxx_xxxxx_xxxx_xxx.__func__)
)
xxxx_xxx_xxxx_xxxxx_xxxx_xxx: Callable[..., List[SomeClass]] = classmethod(# type: ignore
 sync(async_xxxx_xxx_xxxx_xxxxx_xxxx_xxx.__func__)
)
-xxxx_xxx_xxxx_xxxxx_xxxx_xxx: Callable[
- ..., List[SomeClass]
-] = classmethod(sync(async_xxxx_xxx_xxxx_xxxxx_xxxx_xxx.__func__)) # type: ignore
+xxxx_xxx_xxxx_xxxxx_xxxx_xxx: Callable[..., List[SomeClass]] = classmethod(
+ sync(async_xxxx_xxx_xxxx_xxxxx_xxxx_xxx.__func__)
+) # type: ignore
slice[0]
slice[0:1]
slice[0:1:2]
slice[:]
slice[:-1]
@@ -137,113 +173,180 @@
numpy[-(c + 1) :, d]
numpy[:, l[-2]]
numpy[:, :-1]
numpy[np.newaxis, :]
(str or None) if (sys.version_info[0] > (3,)) else (str or bytes or None)
-{'2.7': dead, '3.7': long_live or die_hard}
-{'2.7', '3.6', '3.7', '3.8', '3.9', '4.0' if gilectomy else '3.10'}

```

```

+{"2.7": dead, "3.7": long_live or die_hard}
+{"2.7", "3.6", "3.7", "3.8", "3.9", "4.0" if gilectomy else "3.10"}
[1, 2, 3, 4, 5, 6, 7, 8, 9, 10 or A, 11 or B, 12 or C]
(SomeName)
SomeName
(Good, Bad, Ugly)
(i for i in (1, 2, 3))
((i ** 2) for i in (1, 2, 3))
-((i ** 2) for i, _ in ((1, 'a'), (2, 'b'), (3, 'c')))
+((i ** 2) for i, _ in ((1, "a"), (2, "b"), (3, "c")))
(((i ** 2) + j) for i in (1, 2, 3) for j in (1, 2, 3))
(*starred,)
-{"id": "1", "type": "type", "started_at": now(), "ended_at": now() + timedelta(days=10), "priority":
1, "import_session_id": 1, **kwargs}
+{
+ "id": "1",
+ "type": "type",
+ "started_at": now(),
+ "ended_at": now() + timedelta(days=10),
+ "priority": 1,
+ "import_session_id": 1,
+ **kwargs,
+}
a = (1,)
-b = 1,
+b = (1,)
c = 1
d = (1,) + a + (2,)
e = (1,).count(1)
f = 1, *range(10)
g = 1, *"ten"
-what_is_up_with_those_new_coord_names = (coord_names + set(vars_to_create)) + set(vars_to_remove)
-what_is_up_with_those_new_coord_names = (coord_names | set(vars_to_create)) - set(vars_to_remove)
-result = session.query(models.Customer.id).filter(models.Customer.account_id == account_id,
models.Customer.email == email_address).order_by(models.Customer.id.asc()).all()
-result = session.query(models.Customer.id).filter(models.Customer.account_id == account_id,
models.Customer.email == email_address).order_by(models.Customer.id.asc(),).all()
+what_is_up_with_those_new_coord_names = (coord_names + set(vars_to_create)) + set(
+ vars_to_remove
+)
+what_is_up_with_those_new_coord_names = (coord_names | set(vars_to_create)) - set(
+ vars_to_remove
+)
+result = (
+ session.query(models.Customer.id)
+ .filter(
+ models.Customer.account_id == account_id, models.Customer.email == email_address
+)

```

```

+ .order_by(models.Customer.id.asc())
+ .all()
+)
+result = (
+ session.query(models.Customer.id)
+ .filter(
+ models.Customer.account_id == account_id, models.Customer.email == email_address
+)
+ .order_by(
+ models.Customer.id.asc(),
+)
+ .all()
+)
= set()
authors.ukasz.say_thanks()
mapping = {
 A: 0.25 * (10.0 / 12),
 B: 0.1 * (10.0 / 12),
 C: 0.1 * (10.0 / 12),
 D: 0.1 * (10.0 / 12),
}

+
def gen():
 yield from outside_of_generator
- a = (yield)
- b = ((yield))
- c = (((yield)))
+ a = yield
+ b = yield
+ c = yield
+

async def f():
 await some.complicated[0].call(with_args=(True or (1 is not 1)))
-print(* [] or [1])
+
+
+print(*[] or [1])
print(**{1: 3} if False else {x: x for x in range(3)})
-print(* lambda x: x)
-assert(not Test)("Short message")
-assert this is ComplexTest and not requirements.fit_in_a_single_line(force=False), "Short message"
-assert(((parens is TooMany)))
-for x, in (1,), (2,), (3): ...
-for y in (): ...
-for z in (i for i in (1, 2, 3)): ...
-for i in (call()): ...

```

```

-for j in (1 + (2 + 3)): ...
-while(this and that): ...
-for addr_family, addr_type, addr_proto, addr_canonname, addr_sockaddr in socket.getaddrinfo('google.com',
'http'):
+print(*lambda x: x)
+assert not Test, "Short message"
+assert this is ComplexTest and not requirements.fit_in_a_single_line(
+ force=False
+), "Short message"
+assert parens is TooMany
+for (x,) in (1,), (2,), (3,):
+ ...
+for y in ():
+ ...
+for z in (i for i in (1, 2, 3)):
+ ...
+for i in call():
+ ...
+for j in 1 + (2 + 3):
+ ...
+while this and that:
+ ...
+for (
+ addr_family,
+ addr_type,
+ addr_proto,
+ addr_canonname,
+ addr_sockaddr,
+) in socket.getaddrinfo("google.com", "http"):
 pass
-a = aaaa.bbbb.cccc.dddd.eeee.ffff.gggg.hhhh.iiii.jjjj.kkkk.llll.mmmm.nnnn.oooo.pppp in
qqqq.rrrr.ssss.tttt.uuuu.vvvv.xxxx.yyyy.zzzz
-a = aaaa.bbbb.cccc.dddd.eeee.ffff.gggg.hhhh.iiii.jjjj.kkkk.llll.mmmm.nnnn.oooo.pppp not in
qqqq.rrrr.ssss.tttt.uuuu.vvvv.xxxx.yyyy.zzzz
-a = aaaa.bbbb.cccc.dddd.eeee.ffff.gggg.hhhh.iiii.jjjj.kkkk.llll.mmmm.nnnn.oooo.pppp is
qqqq.rrrr.ssss.tttt.uuuu.vvvv.xxxx.yyyy.zzzz
-a = aaaa.bbbb.cccc.dddd.eeee.ffff.gggg.hhhh.iiii.jjjj.kkkk.llll.mmmm.nnnn.oooo.pppp is not
qqqq.rrrr.ssss.tttt.uuuu.vvvv.xxxx.yyyy.zzzz
-if (
- threading.current_thread() != threading.main_thread() and
- threading.current_thread() != threading.main_thread() or
- signal.getsignal(signal.SIGINT) != signal.default_int_handler
-):
- return True
-if (
- aa |
- aa
-):

```

```

- return True
-if (
- aa &
- aa
-):
- return True
-if (
- aa +
- aa
-):
- return True
-if (
- aa -
- aa
-):
- return True
-if (
- aa *
- aa
-):
- return True
-if (
- aa /
- aa
-):
- return True
-if (
- ~ aaaa.a + aaaa.b - aaaa.c * aaaa.d / aaaa.e | aaaa.f & aaaa.g % aaaa.h ^ aaaa.i << aaaa.k >> aaaa.l ** aaaa.m //
aaa.n
-):
- return True
-if (
- ~ aaaaaaa.a + aaaaaaa.b - aaaaaaa.c @ aaaaaaa.d / aaaaaaa.e | aaaaaaa.f & aaaaaaa.g % aaaaaaa.h ^
aaaaaaa.i << aaaaaaa.k >> aaaaaaa.l ** aaaaaaa.m // aaaaaaa.n
-):
- return True
-if (
- ~ aaaaaaaaaaaaaaaaa.a + aaaaaaaaaaaaaaaaa.b - aaaaaaaaaaaaaaaaa.c * aaaaaaaaaaaaaaaaa.d @ aaaaaaaaaaaaaaaaa.e |
aaaaaaaaaaaaaaaa.f & aaaaaaaaaaaaaaaaa.g % aaaaaaaaaaaaaaaaa.h ^ aaaaaaaaaaaaaaaaa.i << aaaaaaaaaaaaaaaaa.k >>
aaaaaaaaaaaaaaaa.l ** aaaaaaaaaaaaaaaaa.m // aaaaaaaaaaaaaaaaa.n
+a = (
+ aaaa.bbbb.cccc.dddd.eeee.ffff.gggg.hhhh.iiii.jjjj.kkkk.llll.mmmm.nnnn.oooo.pppp
+ in qqqq.rrrr.ssss.tttt.uuuu.vvvv.xxxx.yyyy.zzzz
+)
+a = (
+ aaaa.bbbb.cccc.dddd.eeee.ffff.gggg.hhhh.iiii.jjjj.kkkk.llll.mmmm.nnnn.oooo.pppp
+ not in qqqq.rrrr.ssss.tttt.uuuu.vvvv.xxxx.yyyy.zzzz
+)

```



```

+a = (
+ aaaa.bbbb.cccc.dddd.eeee.ffff.gggg.hhhh.iiii.jjjj.kkkk.llll.mmmm.nnnn.oooo.pppp
+ is qqqq.rrrr.ssss.tttt.uuuu.vvvv.xxxx.yyyy.zzzz
+)
+a = (
+ aaaa.bbbb.cccc.dddd.eeee.ffff.gggg.hhhh.iiii.jjjj.kkkk.llll.mmmm.nnnn.oooo.pppp
+ is not qqqq.rrrr.ssss.tttt.uuuu.vvvv.xxxx.yyyy.zzzz
+)
+if (
+ threading.current_thread() != threading.main_thread()
+ and threading.current_thread() != threading.main_thread()
+ or signal.getsignal(signal.SIGINT) != signal.default_int_handler
+):
+ return True
+if (
+ aaa
+ | aaa
+):
+ return True
+if (
+ aaa
+ & aaa
+):
+ return True
+if (
+ aaa
+ + aaa
+):
+ return True
+if (
+ aaa
+ - aaa
+):
+ return True
+if (
+ aaa
+ * aaa
+):
+ return True
+if (
+ aaa
+ / aaa
+):
+ return True
+if (
+ ~aaa.a + aaa.b - aaa.c * aaa.d / aaa.e
+ | aaa.f & aaa.g % aaa.h ^ aaa.i << aaa.k >> aaa.l ** aaa.m // aaa.n
+):

```

```

+ return True
+if (
+ ~aaaaaaaa.a + aaaaaaa.b - aaaaaaa.c @ aaaaaaa.d / aaaaaaa.e
+ | aaaaaaa.f & aaaaaaa.g % aaaaaaa.h
+ ^ aaaaaaa.i << aaaaaaa.k >> aaaaaaa.l ** aaaaaaa.m // aaaaaaa.n
+):
+ return True
+if (
+ ~aaaaaaaaaaaaaaaa.a
+ + aaaaaaaaaaaaaaaaa.b
+ - aaaaaaaaaaaaaaaaa.c * aaaaaaaaaaaaaaaaa.d @ aaaaaaaaaaaaaaaaa.e
+ | aaaaaaaaaaaaaaaaa.f & aaaaaaaaaaaaaaaaa.g % aaaaaaaaaaaaaaaaa.h
+ ^ aaaaaaaaaaaaaaaaa.i
+ << aaaaaaaaaaaaaaaaa.k
+ >> aaaaaaaaaaaaaaaaa.l ** aaaaaaaaaaaaaaaaa.m // aaaaaaaaaaaaaaaaa.n
+):
 return True
last_call()
standalone comment at ENDMARKER
[/]: # "NOTE: THIS FILE WAS AUTOGENERATED FROM README.md"

```

# Installation and usage

## Installation

`_Black_` can be installed by running ``pip install black``. It requires Python 3.6.0+ to run but you can reformat Python 2 code with it, too.

### Install from GitHub

If you can't wait for the latest `_hotness_` and want to install from GitHub, use:

```
`pip install git+git://github.com/psf/black`
```

## Usage

To get started right away with sensible defaults:

```

``sh
black {source_file_or_directory}
``

```

You can run `_Black_` as a package if running it as a script doesn't work:

```

``sh
python -m black {source_file_or_directory}
``

```

## Command line options

`_Black_` doesn't provide many options. You can list them by running ``black --help``:

```text

Usage: black [OPTIONS] [SRC]...

The uncompromising code formatter.

Options:

- `-c, --code TEXT` Format the code passed in as a string.
- `-l, --line-length INTEGER` How many characters per line to allow.
[default: 88]
- `-t, --target-version [py27|py33|py34|py35|py36|py37|py38]`
Python versions that should be supported by Black's output. [default: per-file auto-detection]
- `--pyi` Format all input files like typing stubs regardless of file extension (useful when piping source on standard input).
- `-S, --skip-string-normalization`
Don't normalize string quotes or prefixes.
- `--check` Don't write the files back, just return the status. Return code 0 means nothing would change. Return code 1 means some files would be reformatted. Return code 123 means there was an internal error.
- `--diff` Don't write the files back, just output a diff for each file on stdout.
- `--color / --no-color` Show colored diff. Only applies when ``--diff`` is given.
- `--fast / --safe` If `--fast` given, skip temporary sanity checks. [default: `--safe`]
- `--include TEXT` A regular expression that matches files and directories that should be included on recursive searches. An empty value means all files are included regardless of the name. Use forward slashes for directories on all platforms (Windows, too). Exclusions are calculated first, inclusions later.
[default: `\.pyi?$`]

`--exclude TEXT` A regular expression that matches files and directories that should be excluded on recursive searches. An empty value means no paths are excluded. Use forward slashes for directories on all platforms (Windows, too). Exclusions are calculated first, inclusions later. [default: `/(\.eggs|\.git|\.hg|\.mypy_cache|\.nox|\.tox|\.venv|\.svn|_build|build|dist)/`]

`--force-exclude TEXT` Like `--exclude`, but files and directories matching this regex will be excluded even when they are passed explicitly as arguments

`-q, --quiet` Don't emit non-error messages to `stderr`. Errors are still emitted; silence those with `2>/dev/null`.

`-v, --verbose` Also emit messages to `stderr` about files that were not changed or were ignored due to `--exclude=`.

`--version` Show the version and exit.

`--config FILE` Read configuration from `FILE` path.

`-h, --help` Show this message and exit.

^^^

`_Black_` is a well-behaved Unix-style command-line tool:

- it does nothing if no sources are passed to it;
- it will read from standard input and write to standard output if ``-`` is used as the filename;
- it only outputs messages to users on standard error;
- exits with code 0 unless an internal error occurred (or ``--check`` was used).

Using `_Black_` with other tools

While `_Black_` enforces formatting that conforms to PEP 8, other tools may raise warnings about `_Black_'s` changes or will overwrite `_Black_'s` changes. A good example of this is `[isort](https://pypi.org/p/isort)`. Since `_Black_` is barely configurable, these tools should be configured to neither warn about nor overwrite `_Black_'s` changes.

Actual details on `_Black_` compatible configurations for various tools can be found in `[compatible_configs](https://github.com/psf/black/blob/master/docs/compatible_configs.md)`.

Migrating your code style without ruining git blame

A long-standing argument against moving to automated code formatters like `_Black_` is that the migration will clutter up the output of ``git blame``. This was a valid argument, but since Git version 2.23, Git natively supports [ignoring revisions in blame](https://git-scm.com/docs/git-blame#Documentation/git-blame.txt---ignore-revltrevgt) with the `--ignore-rev`` option. You can also pass a file listing the revisions to ignore using the `--ignore-revs-file`` option. The changes made by the revision will be ignored when assigning blame. Lines modified by an ignored revision will be blamed on the previous revision that modified those lines.

So when migrating your project's code style to `_Black_`, reformat everything and commit the changes (preferably in one massive commit). Then put the full 40 character commit identifier(s) into a file.

```
...
# Migrate code style to Black
5b4ab991dede475d393e9d69ec388fd6bd949699
...
```

Afterwards, you can pass that file to ``git blame`` and see clean and meaningful blame information.

```
```console
$ git blame important.py --ignore-revs-file .git-blame-ignore-revs
7a1ae265 (John Smith 2019-04-15 15:55:13 -0400 1) def very_important_function(text, file):
abdfd8b0 (Alice Doe 2019-09-23 11:39:32 -0400 2) text = text.lstrip()
7a1ae265 (John Smith 2019-04-15 15:55:13 -0400 3) with open(file, "r+") as f:
7a1ae265 (John Smith 2019-04-15 15:55:13 -0400 4) f.write(formatted)
```
```

You can even configure ``git`` to automatically ignore revisions listed in a file on every call to ``git blame``.

```
```console
$ git config blame.ignoreRevsFile .git-blame-ignore-revs
```
```

****The one caveat is that GitHub and GitLab do not yet support ignoring revisions using their native UI of blame.**** So blame information will be cluttered with a reformatting commit on those platforms. (If you'd like this feature, there's an open issue for [GitLab](https://gitlab.com/gitlab-org/gitlab/-/issues/31423) and please let GitHub know!)

NOTE: This is a beta product

`_Black_` is already [successfully used](#used-by) by many projects, small and big. It also sports a decent test suite. However, it is still very new. Things will probably be wonky for a while. This is made explicit by the "Beta" trove classifier, as well as by the "b" in the version number. What this means for you is that ****until the formatter**

becomes stable, you should expect some formatting to change in the future**. That being said, no drastic stylistic changes are planned, mostly responses to bug reports.

Also, as a temporary safety measure, `_Black_` will check that the reformatted code still produces a valid AST that is equivalent to the original. This slows it down. If you're feeling confident, use `--fast``.

recommonmark==0.6.0

Sphinx==3.2.1

Pygments==2.6.1

A. HISTORY OF THE SOFTWARE

=====

Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see <https://www.cwi.nl>) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see <https://www.cnri.reston.va.us>) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations, which became Zope Corporation. In 2001, the Python Software Foundation (PSF, see <https://www.python.org/psf/>) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation was a sponsoring member of the PSF.

All Python releases are Open Source (see <https://opensource.org> for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

| Release | Derived from | Year | Owner | GPL-compatible? (1) |
|----------------|--------------|-----------|------------|---------------------|
| 0.9.0 thru 1.2 | | 1991-1995 | CWI | yes |
| 1.3 thru 1.5.2 | 1.2 | 1995-1999 | CNRI | yes |
| 1.6 | 1.5.2 | 2000 | CNRI | no |
| 2.0 | 1.6 | 2000 | BeOpen.com | no |
| 1.6.1 | 1.6 | 2001 | CNRI | yes (2) |
| 2.1 | 2.0+1.6.1 | 2001 | PSF | no |
| 2.0.1 | 2.0+1.6.1 | 2001 | PSF | yes |
| 2.1.1 | 2.1+2.0.1 | 2001 | PSF | yes |
| 2.1.2 | 2.1.1 | 2002 | PSF | yes |
| 2.1.3 | 2.1.2 | 2002 | PSF | yes |

2.2 and above 2.1.1 2001-now PSF yes

Footnotes:

- (1) GPL-compatible doesn't mean that we're distributing Python under the GPL. All Python licenses, unlike the GPL, let you distribute a modified version without making your changes open source. The GPL-compatible licenses make it possible to combine Python with other software that is released under the GPL; the others don't.
- (2) According to Richard Stallman, 1.6.1 is not GPL-compatible, because its license has a choice of law clause. According to CNRI, however, Stallman's lawyer has told CNRI's lawyer that 1.6.1 is "not incompatible" with the GPL.

Thanks to the many outside volunteers who have worked under Guido's direction to make these releases possible.

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X: int

def f(): ...

class C:

...

class B:

...

class A:

def f(self) -> int:

...

def g(self) -> str: ...

def g():

...

def h(): ...

output

X: int

def f(): ...

```
class C: ...
class B: ...

class A:
    def f(self) -> int: ...
    def g(self) -> str: ...

def g(): ...
def h(): ...
language: python
cache:
pip: true
directories:
    - $HOME/.cache/pre-commit
env:
    - TEST_CMD="coverage run -m unittest"
install:
    - pip install coverage coveralls pre-commit
    - pip install -e '[d]'
script:
    - $TEST_CMD
after_success:
    - coveralls
notifications:
    on_success: change
    on_failure: always
matrix:
include:
    - name: "lint"
      python: 3.7
      env:
        - TEST_CMD="pre-commit run --all-files --show-diff-on-failure"
    - name: "3.6"
      python: 3.6
    - name: "3.7"
      python: 3.7
    - name: "3.8"
      python: 3.8
    - name: "3.9"
      python: 3.9-dev
allow_failures:
    - python: 3.9-dev
before_deploy:
    - pip install pyinstaller
    - pyinstaller --clean -F --add-data src/blib2to3/:blib2to3 src/black/___init___.py
deploy:
    provider: releases
```

```

api_key:
  secure:
chYvcmnRqRKtfBcAZRj62rEv0ziWuHMI6MnfQbd1MOVQ4njntI8+CCPk118dW6MWSfwTqyMFy+t9gAgQYhj
kLEHMS2aK9Z2wCWki1MkBrkMw5tYoLFvPu0KQ9rIVihxsr93a/am6Oh/Hp+1uuc4zWPUf1ubX+QICzsxjCzVso
1kTJjdn04UxvkcFR+sY2d9Qyy9WcdifChnLwdmIJKIoVOE7Imm820nzImJHkJh8iSnjBjL98gvPPeC/nWTltsbErv
f2mCv4NIjzjQZvHa87c7rSJGbliNrAxCSyvvBX+JNeS8U2fGLE83do0HieyjdPbTuc27e2nsrihgPh+hXbiJerljclfp5
hsJ5qGz5sS9MU1fR7sSLiQQ2v0TYB5RRwd34TgGiLwFAZZmgZOOfMUCtefCKvP8qvELMSNd99+msfPEHiuh
ADF0bKPTbCUa6BgUHNr6woOLmHerjPHd6NI/a8Skz/uQB4xr3spLSmfUmX0fEqyYUDphkGPNH8IsvC1/F2ise
cW9kOzEWmB5oCmpMTGm4Tif3C01Nx+9PVwB2Z+30hhbfIEBxD4loRFmh/hU5TIQEpneF8yoIfe9EnMaoZbq
86xhADZXvLIZvpXUdm1NQZDG6na2S1fwyOUKQsW6BWLcfoZZwZlrXrViD1jBsHBV++s+lxShTeTCszlo=
file:
  - dist/black
skip_cleanup: true
on:
  condition: $TRAVIS_PYTHON_VERSION == '3.6'
  repo: psf/black
  tags: true
--- [Deterministic header]
+++ [Deterministic header]
@@ -1,6 +1,5 @@
-def abc ():
-   return ["hello", "world",
-          "!"]
+def abc():
+   return ["hello", "world", "!"]

-print( "Incorrect formatting"
-)
+
+print("Incorrect formatting")
## blackd

```

`blackd` is a small HTTP server that exposes `_Black_`'s functionality over a simple protocol. The main benefit of using it is to avoid the cost of starting up a new `_Black_` process every time you want to blacken a file.

Usage

`blackd` is not packaged alongside `_Black_` by default because it has additional dependencies. You will need to execute ``pip install black[d]`` to install it.

You can start the server on the default port, binding only to the local interface by running ``blackd``. You will see a single line mentioning the server's version, and the host and port it's listening on. ``blackd`` will then print an access log similar to most web servers on standard output, merged with any exception traces caused by invalid formatting requests.

``blackd`` provides even less options than `_Black_`. You can see them by running

```
`blackd --help`:
```

```
```text
```

```
Usage: blackd [OPTIONS]
```

```
Options:
```

```
--bind-host TEXT Address to bind the server to.
--bind-port INTEGER Port to listen on
--version Show the version and exit.
-h, --help Show this message and exit.
```

```
```
```

There is no official `blackd` client tool (yet!). You can test that blackd is working using `curl`:

```
```sh
```

```
blackd --bind-port 9090 & # or let blackd choose a port
curl -s -XPOST "localhost:9090" -d "print('valid')"
```

```
```
```

```
### Protocol
```

`blackd` only accepts `POST` requests at the `/` path. The body of the request should contain the python source code to be formatted, encoded according to the `charset` field in the `Content-Type` request header. If no `charset` is specified, `blackd` assumes `UTF-8`.

There are a few HTTP headers that control how the source code is formatted. These correspond to command line flags for `_Black_`. There is one exception to this: `X-Protocol-Version` which if present, should have the value `1`, otherwise the request is rejected with `HTTP 501` (Not Implemented).

The headers controlling how source code is formatted are:

- `X-Line-Length`: corresponds to the `--line-length` command line flag.
- `X-Skip-String-Normalization`: corresponds to the `--skip-string-normalization` command line flag. If present and its value is not the empty string, no string normalization will be performed.
- `X-Fast-Or-Safe`: if set to `fast`, `blackd` will act as `_Black_` does when passed the `--fast` command line flag.
- `X-Python-Variant`: if set to `pyi`, `blackd` will act as `_Black_` does when passed the `--pyi` command line flag. Otherwise, its value must correspond to a Python version or a set of comma-separated Python versions, optionally prefixed with `py`. For example, to request code that is compatible with Python 3.5 and 3.6, set the header to `py3.5,py3.6`.
- `X-Diff`: corresponds to the `--diff` command line flag. If present, a diff of the formats will be output.

If any of these headers are set to invalid values, `blackd` returns a `HTTP 400` error response, mentioning the name of the problematic header in the message body.

Apart from the above, `blackd` can produce the following response codes:

- `HTTP 204` : If the input is already well-formatted. The response body is empty.
- `HTTP 200` : If formatting was needed on the input. The response body contains the blackened Python code, and the `Content-Type` header is set accordingly.
- `HTTP 400` : If the input contains a syntax error. Details of the error are returned in the response body.
- `HTTP 500` : If there was any other kind of error while trying to format the input. The response body contains a textual representation of the error.

The response headers include a `X-Black-Version` header containing the version of `_Black_`.

```
[/]: # "NOTE: THIS FILE WAS AUTOGENERATED FROM README.md"
```

```
# Ignoring unmodified files
```

`_Black_` remembers files it has already formatted, unless the `--diff` flag is used or code is passed via standard input. This information is stored per-user. The exact location of the file depends on the `_Black_` version and the system on which `_Black_` is run. The file is non-portable. The standard location on common operating systems is:

- Windows:

```
`C:\\Users\\<username>\\AppData\\Local\\black\\black\\Cache\\<version>\\cache.<line-length>.<file-mode>.pickle`
```

- macOS:

```
`/Users/<username>/Library/Caches/black/<version>/cache.<line-length>.<file-mode>.pickle`
```

- Linux:

```
`/home/<username>/.<cache>/black/<version>/cache.<line-length>.<file-mode>.pickle`
```

``file-mode`` is an int flag that determines whether the file was formatted as 3.6+ only, as `.pyi`, and whether string normalization was omitted.

To override the location of these files on macOS or Linux, set the environment variable ``XDG_CACHE_HOME`` to your preferred location. For example, if you want to put the cache in the directory you're running `_Black_` from, set ``XDG_CACHE_HOME=.cache``. `_Black_` will then write the above files to ``.cache/black/<version>``.

```
[[source]]
```

```
name = "pypi"
```

```
url = "https://pypi.python.org/simple"
```

```
verify_ssl = true
```

```
[dev-packages]
```

```
Sphinx = ">=3.1.2"
```

```
coverage = "*"
```

```
docutils = ">=0.15" # not a direct dependency, see https://github.com/pypa/pipenv/issues/3865
```

```
flake8 = "*"
```

```

flake8-bugbear = "*"
flake8-mypy = "*"
mypy = ">=0.782"
pre-commit = "*"
readme_renderer = "*"
recommonmark = "*"
setuptools = ">=39.2.0"
setuptools-scm = "*"
twine = ">=1.11.0"
wheel = ">=0.31.1"
black = { editable = true, extras = ["d"], path = "." }

[packages]
aiohttp = ">=3.3.2"
aiohttp-cors = "*"
appdirs = "*"
click = ">=7.0"
mypy_extensions = ">=0.4.3"
pathspec = ">=0.6"
regex = ">=2020.1.8"
toml = ">=0.10.1"
typed_ast = ">=1.4.0"
typing_extensions = ">=3.7.4"
black = { editable = true, extras = ["d"], path = "." }
dataclasses = { "python_version <" = "3.7", "version >" = "0.6" }
name: Test

on: [push, pull_request]

jobs:
  build:
    runs-on: ${{ matrix.os }}
    strategy:
      fail-fast: false
    matrix:
      python-version: [3.6, 3.7, 3.8]
      os: [ubuntu-latest, macOS-latest, windows-latest]

    steps:
      - uses: actions/checkout@v2

      - name: Set up Python ${{ matrix.python-version }}
        uses: actions/setup-python@v2
        with:
          python-version: ${{ matrix.python-version }}

      - name: Install dependencies
        run: |

```



```
python -m pip install --upgrade pip
python -m pip install --upgrade coverage
python -m pip install -e ".[d]"
```

- name: Unit tests

run: |

```
coverage run -m unittest
```

name: Lint

on: [push, pull_request]

jobs:

build:

runs-on: ubuntu-latest

strategy:

matrix:

python-version: [3.7]

steps:

- uses: actions/checkout@v2

- name: Set up Python \${{ matrix.python-version }}

uses: actions/setup-python@v2

with:

python-version: \${{ matrix.python-version }}

- name: Install dependencies

run: |

```
python -m pip install --upgrade pip
```

```
python -m pip install --upgrade pre-commit
```

```
python -m pip install -e '.[d]'
```

- name: Lint

run: pre-commit run --all-files --show-diff-on-failure

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Editor integration

Emacs

Options include the following:

- [purcell/reformatter.el](https://github.com/purcell/reformatter.el)
- [proofit404/blacken](https://github.com/pythonic-emacs/blacken)
- [Elpy](https://github.com/jorgenschaefel/elpy).

PyCharm/IntelliJ IDEA

1. Install `black`.

```
```console
$ pip install black
```
```

2. Locate your `black` installation folder.

On macOS / Linux / BSD:

```
```console
$ which black
/usr/local/bin/black # possible location
```
```

On Windows:

```
```console
$ where black
%LocalAppData%\Programs\Python\Python36-32\Scripts\black.exe # possible location
```
```

Note that if you are using a virtual environment detected by PyCharm, this is an unneeded step. In this case the path to `black` is `\${PyInterpreterDirectory}/black`.

3. Open External tools in PyCharm/IntelliJ IDEA

On macOS:

`PyCharm -> Preferences -> Tools -> External Tools`

On Windows / Linux / BSD:

`File -> Settings -> Tools -> External Tools`

4. Click the + icon to add a new external tool with the following values:

- Name: Black
- Description: Black is the uncompromising Python code formatter.
- Program: <install_location_from_step_2>
- Arguments: ``\$FilePath\$``

5. Format the currently opened file by selecting `Tools -> External Tools -> black`.

- Alternatively, you can set a keyboard shortcut by navigating to
`Preferences or Settings -> Keymap -> External Tools -> External Tools - Black`.

6. Optionally, run `_Black_` on every file save:

1. Make sure you have the
[File Watchers](<https://plugins.jetbrains.com/plugin/7177-file-watchers>) plugin installed.
 2. Go to `Preferences or Settings -> Tools -> File Watchers` and click `+` to add a new watcher:
 - Name: Black
 - File type: Python
 - Scope: Project Files
 - Program: <install_location_from_step_2>
 - Arguments: `\$FilePath\$`
 - Output paths to refresh: `\$FilePath\$`
 - Working directory: `\$ProjectFileDir\$`
- Uncheck "Auto-save edited files to trigger the watcher" in Advanced Options

Wing IDE

Wing supports black via the OS Commands tool, as explained in the Wing documentation on [pep8 formatting](<https://wingware.com/doc/edit/pep8>). The detailed procedure is:

1. Install `black`.

```
```console
$ pip install black
```
```

2. Make sure it runs from the command line, e.g.

```
```console
$ black --help
```
```

3. In Wing IDE, activate the **OS Commands** panel and define the command **black** to execute black on the currently selected file:

- Use the Tools -> OS Commands menu selection
- click on **+** in **OS Commands** -> New: Command line..
- Title: black
- Command Line: black %s
- I/O Encoding: Use Default
- Key Binding: F1
- [x] Raise OS Commands when executed
- [x] Auto-save files before execution
- [x] Line mode

4. Select a file in the editor and press **F1** , or whatever key binding you selected in step 3, to reformat the file.

Vim

Commands and shortcuts:

- `:Black`` to format the entire file (ranges not supported);
- `:BlackUpgrade`` to upgrade `_Black_` inside the virtualenv;
- `:BlackVersion`` to get the current version of `_Black_` inside the virtualenv.

Configuration:

- `g:black_fast`` (defaults to `0``)
- `g:black_linelength`` (defaults to `88``)
- `g:black_skip_string_normalization`` (defaults to `0``)
- `g:black_virtualenv`` (defaults to `~/vim/black`` or `~/local/share/nvim/black``)

To install with [vim-plug](<https://github.com/junegunn/vim-plug>):

```
```
Plug 'psf/black', { 'branch': 'stable' }
```
```

or with [Vundle](<https://github.com/VundleVim/Vundle.vim>):

```
```
Plugin 'psf/black'
```
```

and execute the following in a terminal:

```
```console
$ cd ~/.vim/bundle/black
$ git checkout origin/stable -b stable
```
```

or you can copy the plugin from
[plugin/black.vim](https://github.com/psf/black/blob/stable/plugin/black.vim).

```
```
mkdir -p ~/.vim/pack/python/start/black/plugin
curl https://raw.githubusercontent.com/psf/black/stable/plugin/black.vim -o
~/.vim/pack/python/start/black/plugin/black.vim
```
```

Let me know if this requires any changes to work with Vim 8's builtin `packadd`, or Pathogen, and so on.

This plugin **requires Vim 7.0+ built with Python 3.6+ support**. It needs Python 3.6 to be able to run `_Black_` inside the Vim process which is much faster than calling an external command.

On first run, the plugin creates its own virtualenv using the right Python version and automatically installs `_Black_`. You can upgrade it later by calling `:_BlackUpgrade_` and restarting Vim.

If you need to do anything special to make your virtualenv work and install `_Black_` (for example you want to run a version from master), create a virtualenv manually and point `g:black_virtualenv` to it. The plugin will use it.

To run `_Black_` on save, add the following line to `.vimrc` or `init.vim`:

```
```
autocmd BufWritePre *.py execute ':Black'
```
```

To run `_Black_` on a key press (e.g. F9 below), add this:

```
```
nnoremap <F9> :Black<CR>
```
```

How to get Vim with Python 3.6? On Ubuntu 17.10 Vim comes with Python 3.6 by default. On macOS with Homebrew run: `brew install vim`. When building Vim from source, use: `./configure --enable-python3interp=yes`. There's many guides online how to do this.

I get an import error when using `_Black_` from a virtual environment: If you get an

error message like this:

```
```text
Traceback (most recent call last):
 File "<string>", line 63, in <module>
 File "/home/gui/.vim/black/lib/python3.7/site-packages/black.py", line 45, in <module>
 from typed_ast import ast3, ast27
 File "/home/gui/.vim/black/lib/python3.7/site-packages/typed_ast/ast3.py", line 40, in <module>
 from typed_ast import _ast3
ImportError: /home/gui/.vim/black/lib/python3.7/site-packages/typed_ast/_ast3.cpython-37m-x86_64-linux-gnu.so:
undefined symbol: PyExc_KeyboardInterrupt
```
```

Then you need to install `typed_ast` and `regex` directly from the source code. The error happens because `pip` will download [Python wheels](https://pythonwheels.com/) if they are available. Python wheels are a new standard of distributing Python packages and packages that have Cython and extensions written in C are already compiled, so the installation is much more faster. The problem here is that somehow the Python environment inside Vim does not match with those already compiled C extensions and these kind of errors are the result. Luckily there is an easy fix: installing the packages from the source code.

The two packages that cause the problem are:

- [regex](https://pypi.org/project/regex/)
- [typed-ast](https://pypi.org/project/typed-ast/)

Now remove those two packages:

```
```console
$ pip uninstall regex typed-ast -y
```
```

And now you can install them with:

```
```console
$ pip install --no-binary :all: regex typed-ast
```
```

The C extensions will be compiled and now Vim's Python environment will match. Note that you need to have the GCC compiler and the Python development files installed (on Ubuntu/Debian do `sudo apt-get install build-essential python3-dev`).

If you later want to update `_Black_`, you should do it like this:

```
```console
$ pip install -U black --no-binary regex,typed-ast
```
```

Visual Studio Code

Use the

[Python extension](https://marketplace.visualstudio.com/items?itemName=ms-python.python) ([instructions](https://code.visualstudio.com/docs/python/editing#_formatting)).

SublimeText 3

Use [sublack plugin](https://github.com/jgirardet/sublack).

Jupyter Notebook Magic

Use [blackcellmagic](https://github.com/csurfer/blackcellmagic).

Python Language Server

If your editor supports the [Language Server Protocol](https://langserver.org/) (Atom, Sublime Text, Visual Studio Code and many more), you can use the [Python Language Server](https://github.com/palantir/python-language-server) with the [pyls-black](https://github.com/rupert/pyls-black) plugin.

Atom/Nuclide

Use [python-black](https://atom.io/packages/python-black).

Gradle (the build tool)

Use the [Spotless](https://github.com/diffplug/spotless/tree/main/plugin-gradle) plugin.

Kakoune

Add the following hook to your kakrc, then run `_Black_` with ``:format``.

```
...  
hook global WinSetOption filetype=python % {  
    set-option window formatcmd 'black -q -'  
}  
...
```

Thonny

Use [Thonny-black-code-format](https://github.com/Franccisco/thonny-black-code-format).

Other integrations

Other editors and tools will require external contributions.

Patches welcome!

Any tool that can pipe code through `_Black_` using its stdio mode (just [use ``-`` as the file name](https://www.tldp.org/LDP/abs/html/special-chars.html#DASHREF2)). The formatted code will be returned on stdout (unless `--check`` was passed). `_Black_` will still emit messages on stderr but that shouldn't affect your use case.

This can be used for example with PyCharm's or IntelliJ's [File Watchers](https://www.jetbrains.com/help/pycharm/file-watchers.html).
![Black Logo](https://raw.githubusercontent.com/psf/black/master/docs/_static/logo2-readme.png)

`<h2 align="center">The Uncompromising Code Formatter</h2>`

```
<p align="center">
<a href="https://travis-ci.com/psf/black"></a>
<a href="https://github.com/psf/black/actions"></a>
<a href="https://github.com/psf/black/actions"></a>
<a href="https://black.readthedocs.io/en/stable/?badge=stable"></a>
<a href="https://coveralls.io/github/psf/black?branch=master"></a>
<a href="https://github.com/psf/black/blob/master/LICENSE"></a>
<a href="https://pypi.org/project/black/"></a>
<a href="https://pepy.tech/project/black"></a>
<a href="https://github.com/psf/black"></a>
</p>
```

> Any color you like.

`_Black_` is the uncompromising Python code formatter. By using it, you agree to cede control over minutiae of hand-formatting. In return, `_Black_` gives you speed, determinism, and freedom from ``pycodestyle`` nagging about formatting. You will save time and mental energy for more important matters.

Blackened code looks the same regardless of the project you're reading. Formatting becomes transparent after a while and you can focus on the content instead.

`_Black_` makes code review faster by producing the smallest diffs possible.

Try it out now using the [Black Playground](https://black.now.sh). Watch the [PyCon 2019 talk](https://youtu.be/esZLCuWs_2Y) to learn more.

```
_Contents:_ [Installation and usage](#installation-and-usage) |  
[Code style](#the-black-code-style) | [Pragmatism](#pragmatism) |  
[pyproject.toml](#pyprojecttoml) | [Editor integration](#editor-integration) |  
[blackd](#blackd) | [black-primer](#black-primer) |  
[Version control integration](#version-control-integration) |  
[GitHub Actions](#github-actions) |  
[Ignoring unmodified files](#ignoring-unmodified-files) | [Used by](#used-by) |  
[Testimonials](#testimonials) | [Show your style](#show-your-style) |  
[Contributing](#contributing-to-black) | [Change log](#change-log) |  
[Authors](#authors)
```

Installation and usage

Installation

`_Black_` can be installed by running ``pip install black``. It requires Python 3.6.0+ to run but you can reformat Python 2 code with it, too.

Install from GitHub

If you can't wait for the latest `_hotness_` and want to install from GitHub, use:

```
`pip install git+git://github.com/psf/black`
```

Usage

To get started right away with sensible defaults:

```
```sh  
black {source_file_or_directory}
```
```

You can run `_Black_` as a package if running it as a script doesn't work:

```
```sh  
python -m black {source_file_or_directory}
```
```

Command line options

`_Black_` doesn't provide many options. You can list them by running ``black --help``:

```
```text  
Usage: black [OPTIONS] [SRC]...
```

The uncompromising code formatter.

Options:

- c, --code TEXT           Format the code passed in as a string.
- l, --line-length INTEGER   How many characters per line to allow.  
                            [default: 88]
  
- t, --target-version [py27|py33|py34|py35|py36|py37|py38]  
                            Python versions that should be supported by  
                            Black's output. [default: per-file auto-  
                            detection]
  
- pyi                    Format all input files like typing stubs  
                            regardless of file extension (useful when  
                            piping source on standard input).
  
- S, --skip-string-normalization  
                            Don't normalize string quotes or prefixes.
- check                   Don't write the files back, just return the  
                            status. Return code 0 means nothing would  
                            change. Return code 1 means some files  
                            would be reformatted. Return code 123 means  
                            there was an internal error.
  
- diff                    Don't write the files back, just output a  
                            diff for each file on stdout.
  
- color / --no-color       Show colored diff. Only applies when  
                            `--diff` is given.
  
- fast / --safe            If --fast given, skip temporary sanity  
                            checks. [default: --safe]
  
- include TEXT            A regular expression that matches files and  
                            directories that should be included on  
                            recursive searches. An empty value means  
                            all files are included regardless of the  
                            name. Use forward slashes for directories  
                            on all platforms (Windows, too). Exclusions  
                            are calculated first, inclusions later.  
                            [default: \.pyi?\$]
  
- exclude TEXT            A regular expression that matches files and  
                            directories that should be excluded on  
                            recursive searches. An empty value means no  
                            paths are excluded. Use forward slashes for  
                            directories on all platforms (Windows, too).  
                            Exclusions are calculated first, inclusions

later. [default: /(\\eggs\\.git\\.hg\\.mypy  
\_cache\\.nox\\.tox\\.venv\\.svn|\_build|buck-  
out|build|dist)/]

--force-exclude TEXT      Like --exclude, but files and directories  
matching this regex will be excluded even  
when they are passed explicitly as arguments

-q, --quiet              Don't emit non-error messages to stderr.  
Errors are still emitted; silence those with  
2>/dev/null.

-v, --verbose            Also emit messages to stderr about files  
that were not changed or were ignored due to  
--exclude=.

--version                Show the version and exit.

--config FILE            Read configuration from FILE path.

-h, --help               Show this message and exit.

^^^

`_Black_` is a well-behaved Unix-style command-line tool:

- it does nothing if no sources are passed to it;
- it will read from standard input and write to standard output if ``-`` is used as the filename;
- it only outputs messages to users on standard error;
- exits with code 0 unless an internal error occurred (or ``--check`` was used).

### Using `_Black_` with other tools

While `_Black_` enforces formatting that conforms to PEP 8, other tools may raise warnings about `_Black_'s` changes or will overwrite `_Black_'s` changes. A good example of this is `[isort](https://pypi.org/p/isort)`. Since `_Black_` is barely configurable, these tools should be configured to neither warn about nor overwrite `_Black_'s` changes.

Actual details on `_Black_` compatible configurations for various tools can be found in `[compatible_configs](https://github.com/psf/black/blob/master/docs/compatible_configs.md)`.

### Migrating your code style without ruining git blame

A long-standing argument against moving to automated code formatters like `_Black_` is that the migration will clutter up the output of ``git blame``. This was a valid argument, but since Git version 2.23, Git natively supports `[ignoring revisions in blame](https://git-scm.com/docs/git-blame#Documentation/git-blame.txt---ignore-revltrevgt)` with the ``--ignore-rev`` option. You can also pass a file listing the revisions to ignore using the ``--ignore-revs-file`` option. The changes made by the revision will be ignored when assigning blame. Lines modified by an ignored revision will be blamed on the

previous revision that modified those lines.

So when migrating your project's code style to `_Black_`, reformat everything and commit the changes (preferably in one massive commit). Then put the full 40 characters commit identifier(s) into a file.

```
...
Migrate code style to Black
5b4ab991dede475d393e9d69ec388fd6bd949699
...
```

Afterwards, you can pass that file to ``git blame`` and see clean and meaningful blame information.

```
```console
$ git blame important.py --ignore-revs-file .git-blame-ignore-revs
7a1ae265 (John Smith 2019-04-15 15:55:13 -0400 1) def very_important_function(text, file):
abdfd8b0 (Alice Doe 2019-09-23 11:39:32 -0400 2)     text = text.lstrip()
7a1ae265 (John Smith 2019-04-15 15:55:13 -0400 3)     with open(file, "r+") as f:
7a1ae265 (John Smith 2019-04-15 15:55:13 -0400 4)         f.write(formatted)
...
```
```

You can even configure ``git`` to automatically ignore revisions listed in a file on every call to ``git blame``.

```
```console
$ git config blame.ignoreRevsFile .git-blame-ignore-revs
...
```
```

**\*\*The one caveat is that GitHub and GitLab do not yet support ignoring revisions using their native UI of blame.\*\*** So blame information will be cluttered with a reformatting commit on those platforms. (If you'd like this feature, there's an open issue for [GitLab](<https://gitlab.com/gitlab-org/gitlab/-/issues/31423>) and please let GitHub know!)

**### NOTE: This is a beta product**

`_Black_` is already [successfully used](#used-by) by many projects, small and big. It also sports a decent test suite. However, it is still very new. Things will probably be wonky for a while. This is made explicit by the "Beta" trove classifier, as well as by the "b" in the version number. What this means for you is that **\*\*until the formatter becomes stable, you should expect some formatting to change in the future\*\***. That being said, no drastic stylistic changes are planned, mostly responses to bug reports.

Also, as a temporary safety measure, `_Black_` will check that the reformatted code still produces a valid AST that is equivalent to the original. This slows it down. If you're feeling confident, use ``--fast``.

## ## The `_Black_` style

`_Black_` is a PEP 8 compliant opinionated formatter. `_Black_` reformats entire files in place. It is not configurable. It doesn't take previous formatting into account. Your main option of configuring `_Black_` is that it doesn't reformat blocks that start with ``# fmt: off`` and end with ``# fmt: on``. ``# fmt: on/off`` have to be on the same level of indentation. To learn more about `_Black_'s` opinions, to go [\[the\\_black\\_code\\_style\]\(https://github.com/psf/black/blob/master/docs/the\\_black\\_code\\_style.md\)](https://github.com/psf/black/blob/master/docs/the_black_code_style.md).

Please refer to this document before submitting an issue. What seems like a bug might be intended behaviour.

## ## Pragmatism

Early versions of `_Black_` used to be absolutist in some respects. They took after its initial author. This was fine at the time as it made the implementation simpler and there were not many users anyway. Not many edge cases were reported. As a mature tool, `_Black_` does make some exceptions to rules it otherwise holds. This [\[section\]\(https://github.com/psf/black/blob/master/docs/the\\_black\\_code\\_style.md#pragmatism\)](https://github.com/psf/black/blob/master/docs/the_black_code_style.md#pragmatism) of ``the_black_code_style`` describes what those exceptions are and why this is the case.

Please refer to this document before submitting an issue just like with the document above. What seems like a bug might be intended behaviour.

## ## `pyproject.toml`

`_Black_` is able to read project-specific default values for its command line options from a ``pyproject.toml`` file. This is especially useful for specifying custom ``--include`` and ``--exclude`` patterns for your project.

**\*\*Pro-tip\*\*:** If you're asking yourself "Do I need to configure anything?" the answer is "No". `_Black_` is all about sensible defaults.

### ### What on Earth is a ``pyproject.toml`` file?

[\[PEP 518\]\(https://www.python.org/dev/peps/pep-0518/\)](https://www.python.org/dev/peps/pep-0518/) defines ``pyproject.toml`` as a configuration file to store build system requirements for Python projects. With the help of tools like [\[Poetry\]\(https://python-poetry.org/\)](https://python-poetry.org/) or [\[Flit\]\(https://flit.readthedocs.io/en/latest/\)](https://flit.readthedocs.io/en/latest/) it can fully replace the need for ``setup.py`` and ``setup.cfg`` files.

### ### Where `_Black_` looks for the file

By default `_Black_` looks for ``pyproject.toml`` starting from the common base directory of all files and directories passed on the command line. If it's not there, it looks in parent directories. It stops looking when it finds the file, or a ``.git`` directory, or a ``.hg`` directory, or the root of the file system, whichever comes first.

If you're formatting standard input, `_Black_` will look for configuration starting from the current working directory.

You can also explicitly specify the path to a particular file that you want with `--config``. In this situation `_Black_` will not look for any other file.

If you're running with `--verbose``, you will see a blue message if a file was found and used.

Please note `blackd`` will not use `pyproject.toml`` configuration.

### ### Configuration format

As the file extension suggests, `pyproject.toml`` is a [TOML](<https://github.com/toml-lang/toml>) file. It contains separate sections for different tools. `_Black_` is using the `[tool.black]`` section. The option keys are the same as long names of options on the command line.

Note that you have to use single-quoted strings in TOML for regular expressions. It's the equivalent of r-strings in Python. Multiline strings are treated as verbose regular expressions by Black. Use `[ ]`` to denote a significant space character.

<details>

<summary>Example <code>pyproject.toml</code></summary>

```
``toml
[tool.black]
line-length = 88
target-version = ['py37']
include = '\.pyi?$'
exclude = ""

(
/(
 \.eggs # exclude a few common directories in the
| \.git # root of the project
| \.hg
| \.mypy_cache
| \.tox
| \.venv
| _build
| buck-out
| build
| dist
)/
| foo.py # also separately exclude a file named foo.py in
 # the root of the project
)
)
```

""  
""

</details>

### ### Lookup hierarchy

Command-line options have defaults that you can see in `--help`. A `pyproject.toml` can override those defaults. Finally, options provided by the user on the command line override both.

`_Black_` will only ever use one `pyproject.toml` file during an entire run. It doesn't look for multiple files, and doesn't compose configuration from different levels of the file hierarchy.

### ## Editor integration

`_Black_` can be integrated into many editors with plugins. They let you run `_Black_` on your code with the ease of doing it in your editor. To get started using `_Black_` in your editor of choice, please see [\[editor\\_integration\]\(https://github.com/psf/black/blob/master/docs/editor\\_integration.md\)](https://github.com/psf/black/blob/master/docs/editor_integration.md).

Patches are welcome for editors without an editor integration or plugin! More information can be found in [\[editor\\_integration\]\(https://github.com/psf/black/blob/master/docs/editor\\_integration.md#other-editors\)](https://github.com/psf/black/blob/master/docs/editor_integration.md#other-editors).

### ## blackd

`blackd` is a small HTTP server that exposes Black's functionality over a simple protocol. The main benefit of using it is to avoid paying the cost of starting up a new Black process every time you want to blacken a file. Please refer to [\[blackd\]\(https://github.com/psf/black/blob/master/docs/blackd.md\)](https://github.com/psf/black/blob/master/docs/blackd.md) to get the ball rolling.

### ## black-primer

`black-primer` is a tool built for CI (and humans) to have `_Black_ --check` a number of (configured in `primer.json`) Git accessible projects in parallel. [\[black\\_primer\]\(https://github.com/psf/black/blob/master/docs/black\\_primer.md\)](https://github.com/psf/black/blob/master/docs/black_primer.md) has more information regarding its usage and configuration.

(A PR adding Mercurial support will be accepted.)

### ## Version control integration

Use [\[pre-commit\]\(https://pre-commit.com/\)](https://pre-commit.com/). Once you [\[have it installed\]\(https://pre-commit.com/#install\)](https://pre-commit.com/#install), add this to the `.pre-commit-config.yaml` in your repository:

```

```yaml
repos:
- repo: https://github.com/psf/black
  rev: 19.10b0 # Replace by any tag/version: https://github.com/psf/black/tags
  hooks:
    - id: black
      language_version: python3 # Should be a command that runs python3.6+
```

```

Then run `pre-commit install` and you're ready to go.

Avoid using `args` in the hook. Instead, store necessary configuration in `pyproject.toml` so that editors and command-line usage of Black all behave consistently for your project. See `_Black_`'s own `[pyproject.toml]`(<https://github.com/psf/black/blob/master/pyproject.toml>) for an example.

If you're already using Python 3.7, switch the `language_version` accordingly. Finally, `stable` is a branch that tracks the latest release on PyPI. If you'd rather run on master, this is also an option.

### ## GitHub Actions

Create a file named `.github/workflows/black.yml` inside your repository with:

```

```yaml
name: Lint

on: [push, pull_request]

jobs:
  lint:
    runs-on: ubuntu-latest
    steps:
      - uses: actions/checkout@v2
      - uses: actions/setup-python@v2
      - uses: psf/black@stable
```

```

### ## Ignoring unmodified files

`_Black_` remembers files it has already formatted, unless the `--diff` flag is used or code is passed via standard input. This information is stored per-user. The exact location of the file depends on the `_Black_` version and the system on which `_Black_` is run. The file is non-portable. The standard location on common operating systems is:

- Windows:



```
`C:\\Users<username>\\AppData\\Local\\black\\black\\Cache\\<version>\\cache.<line-length>.<file-mode>.pickle`
- macOS:
`/Users/<username>/Library/Caches/black/<version>/cache.<line-length>.<file-mode>.pickle`
- Linux:
`/home/<username>/.-cache/black/<version>/cache.<line-length>.<file-mode>.pickle`
```

`file-mode` is an int flag that determines whether the file was formatted as 3.6+ only, as .pyi, and whether string normalization was omitted.

To override the location of these files on macOS or Linux, set the environment variable `XDG\_CACHE\_HOME` to your preferred location. For example, if you want to put the cache in the directory you're running `_Black_` from, set `XDG_CACHE_HOME=.cache` . _Black_ will then write the above files to ./cache/black/<version>/` .`

## Used by

The following notable open-source projects trust `_Black_` with enforcing a consistent code style: pytest, tox, Pyramid, Django Channels, Hypothesis, attrs, SQLAlchemy, Poetry, PyPA applications (Warehouse, Bandersnatch, Pipenv, virtualenv), pandas, Pillow, every Datadog Agent Integration, Home Assistant.

The following organizations use `_Black_`: Facebook, Dropbox, Mozilla, Quora.

Are we missing anyone? Let us know.

## Testimonials

**Dusty Phillips**,  
[writer](https://smile.amazon.com/s/ref=nb\_sb\_noss?url=search-alias%3Daps&field-keywords=dusty+phillips):

> `_Black_` is opinionated so you don't have to be.

**Hynek Schlawack**, [creator of `attrs`](https://www.attrs.org/), core developer of Twisted and CPython:

> An auto-formatter that doesn't suck is all I want for Xmas!

**Carl Meyer**, [Django](https://www.djangoproject.com/) core developer:

> At least the name is good.

**Kenneth Reitz**, creator of [`requests`](http://python-requests.org/) and [pipenv`](https://readthedocs.org/projects/pipenv/):`

> This vastly improves the formatting of our code. Thanks a ton!

## Show your style

Use the badge in your project's README.md:

```
```md
[![Code style: black](https://img.shields.io/badge/code%20style-black-000000.svg)](https://github.com/psf/black)
```
```

Using the badge in README.rst:

```
```
.. image:: https://img.shields.io/badge/code%20style-black-000000.svg
   :target: https://github.com/psf/black
```
```

Looks like this:

```
[![Code style: black](https://img.shields.io/badge/code%20style-black-000000.svg)](https://github.com/psf/black)
```

## License

MIT

## Contributing to `_Black_`

In terms of inspiration, `_Black_` is about as configurable as `_gofmt_`. This is deliberate.

Bug reports and fixes are always welcome! However, before you suggest a new feature or configuration knob, ask yourself why you want it. If it enables better integration with some workflow, fixes an inconsistency, speeds things up, and so on - go for it! On the other hand, if your answer is "because I don't like a particular formatting" then you're not ready to embrace `_Black_` yet. Such changes are unlikely to get accepted. You can still try but prepare to be disappointed.

More details can be found in

[CONTRIBUTING](https://github.com/psf/black/blob/master/CONTRIBUTING.md).

## Change log

The log's become rather long. It moved to its own file.

See [CHANGES](https://github.com/psf/black/blob/master/CHANGES.md).

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flake8
ignore = E203, E266, E501, W503
line length is intentionally set to 80 here because black uses Bugbear
See https://github.com/psf/black/blob/master/README.md#line-length for more details
max-line-length = 80
max-complexity = 18
select = B,C,E,F,W,T4,B9
We need to configure the mypy.ini because the flake8-mypy's default
options don't properly override it, so if we don't specify it we get
half of the config from mypy.ini and half from flake8-mypy.
mypy_config = mypy.ini
Contributing to _Black_

Welcome! Happy to see you willing to make the project better. Have you read the entire
[user documentation](https://black.readthedocs.io/en/latest/) yet?

Bird's eye view
```

In terms of inspiration, `_Black_` is about as configurable as `_gofmt_`. This is deliberate.

Bug reports and fixes are always welcome! Please follow the [issue template on GitHub](<https://github.com/psf/black/issues/new>) for best results.

Before you suggest a new feature or configuration knob, ask yourself why you want it. If it enables better integration with some workflow, fixes an inconsistency, speeds things up, and so on - go for it! On the other hand, if your answer is "because I don't like a particular formatting" then you're not ready to embrace `_Black_` yet. Such changes are unlikely to get accepted. You can still try but prepare to be disappointed.

## ## Technicalities

Development on the latest version of Python is preferred. As of this writing it's 3.8. You can use any operating system. I am using macOS myself and CentOS at work.

Install all development dependencies using:

```
```console
$ pipenv install --dev
$ pipenv shell
$ pre-commit install
```
```

If you haven't used ``pipenv`` before but are comfortable with `virtualenvs`, just run ``pip install pipenv`` in the `virtualenv` you're already using and invoke the command above from the cloned `_Black_` repo. It will do the correct thing.

Before submitting pull requests, run lints and tests with:

```
```console
$ pre-commit run -a
$ python -m unittest
$ black-primer [-k -w /tmp/black_test_repos]
```
```

## ## black-primer

``black-primer`` is used by CI to pull down well-known `_Black_` formatted projects and see if we get source code changes. It will error on formatting changes or errors. Please run before pushing your PR to see if you get the actions you would expect from `_Black_` with your PR. You may need to change [primer.json]([https://github.com/psf/black/blob/master/src/black\\_primer/primer.json](https://github.com/psf/black/blob/master/src/black_primer/primer.json)) configuration for it to pass.

For more ``black-primer`` information visit the

[documentation](https://github.com/psf/black/blob/master/docs/black\_primer.md).

## ## Hygiene

If you're fixing a bug, add a test. Run it first to confirm it fails, then fix the bug, run it again to confirm it's really fixed.

If adding a new feature, add a test. In fact, always add a test. But wait, before adding any large feature, first open an issue for us to discuss the idea first.

## ## Finally

Thanks again for your interest in improving the project! You're taking action when most people decide to sit and watch.

name: "Black"

description: "The uncompromising Python code formatter."

author: "ukasz Langa and contributors to Black"

branding:

color: "black"

icon: "check-circle"

runs:

using: "docker"

image: "Dockerfile"

[//]: # "NOTE: THIS FILE WAS AUTOGENERATED FROM README.md"

## # GitHub Actions

Create a file named `.github/workflows/black.yml` inside your repository with:

```
```yaml
```

```
name: Lint
```

```
on: [push, pull_request]
```

```
jobs:
```

```
  lint:
```

```
    runs-on: ubuntu-latest
```

```
    steps:
```

```
      - uses: actions/checkout@v2
```

```
      - uses: actions/setup-python@v2
```

```
      - uses: psf/black@stable
```

```
```
```

```

```

```
name: Feature request
```

```
about: Suggest an idea for this project
```

```
title: ""
```

```
labels: enhancement
```

```
assignees: ""
```



---

**\*\*Is your feature request related to a problem? Please describe.\*\*** A clear and concise description of what the problem is. Ex. I'm always frustrated when [...]

**\*\*Describe the solution you'd like\*\*** A clear and concise description of what you want to happen.

**\*\*Describe alternatives you've considered\*\*** A clear and concise description of any alternative solutions or features you've considered.

**\*\*Additional context\*\*** Add any other context or screenshots about the feature request here.

```
file_input
decorated
 decorator
 AT
'@'
 NAME
'dataclass'
 NEWLINE
'\n'
 /decorator
 classdef
 NAME
'class'
 NAME
''
'DebugVisitor'
 LPAR
'('
 power
 NAME
'Visitor'
 trailer
 LSQB
 '['
 NAME
 'T'
 RSQB
']'
 /trailer
 /power
 RPAR
')'
 COLON
 ':'
 suite
```

```

NEWLINE
'\n'
INDENT
"
 simple_stmt
 expr_stmt
 NAME
' '
'tree_depth'
 annassign
 COLON
':'
 NAME
''
'int'
 EQUAL
''
'='
 NUMBER
''
'0'
 /annassign
 /expr_stmt
 NEWLINE
'\n'
 /simple_stmt
funcdef
 NAME
'\n '
'def'
 NAME
''
'visit_default'
 parameters
 LPAR
'('
 typedarglist
 NAME
'self'
 COMMA
','
 tname
 NAME
''
'node'
 COLON
':'
 NAME

```

```

''
'LN'
 /tname
 /typedarglist
 RPAR
')'
 /parameters
 RARROW
''
'-'>'
 power
 NAME
''
'Iterator'
 trailer
 LSQB
'['
 NAME
']'
 RSQB
']'
 /trailer
 /power
 COLON
':'
 suite
 NEWLINE
'\n'
 INDENT
''
 simple_stmt
 expr_stmt
 NAME
', '
'indent'
 EQUAL
''
'≡'
 term
 STRING
''
''' '''
 STAR
''
'*:'
 atom
 LPAR
''

```

```

'('
 term
 NUMBER
'2'
 STAR
''
'*'
 power
 NAME
''
'self'
 trailer
 DOT
':'
 NAME
'tree_depth'
 /trailer
 /power
 /term
 RPAR
')'
 /atom
 /term
 /expr_stmt
 NEWLINE
'\n'
 /simple_stmt
 if_stmt
 NAME
', '
'if'
 power
 NAME
''
'instance'
 trailer
 LPAR
'('
 arglist
 NAME
'node'
 COMMA
','
 NAME
''
'Node'
 /arglist
 RPAR

```

```

 ')'
 /trailer
 /power
 COLON
 ':'
 suite
 NEWLINE
 '\n'
 INDENT
 "
 simple_stmt
 expr_stmt
 NAME
 ' '
 '_type'
 EQUAL
 ""
 '=='
 power
 NAME
 ""
 'type_repr'
 trailer
 LPAR
 '('
 power
 NAME
 'node'
 trailer
 DOT
 ':'
 NAME
 'type'
 /trailer
 /power
 RPAR
 ')'
 /trailer
 /power
 /expr_stmt
 NEWLINE
 '\n'
 /simple_stmt
 simple_stmt
 power
 NAME
 ' '
 'out'

```

```

 trailer
 LPAR
 '('
 arglist
 STRING
 "f{indent}{_type}"
 COMMA
 ','
 argument
 NAME
 ''
 'fg'
 EQUAL
 '≡'
 STRING
 "yellow"
 /argument
 /arglist
 RPAR
 ')'
 /trailer
 /power
 NEWLINE
 '\n'
 /simple_stmt
 simple_stmt
 expr_stmt
 power
 NAME
 'self'
 trailer
 DOT
 ':'
 NAME
 'tree_depth'
 /trailer
 /power
 PLUSEQUAL
 ''
 '+='
 NUMBER
 ''
 '1'
 /expr_stmt
 NEWLINE
 '\n'
 /simple_stmt

```

```

 for_stmt
 NAME
'for'
 NAME
''
'child'
 NAME
''
'in'
 power
 NAME
''
'node'
 trailer
 DOT
':'
 NAME
'children'
 /trailer
 /power
 COLON
':'
 suite
 NEWLINE
'\n'
 INDENT
''
 simple_stmt
 yield_expr
 NAME
'yield'
 yield_arg
 NAME
''
'from'
 power
 NAME
''
'self'
 trailer
 DOT
':'
 NAME
'visit'
 /trailer
 trailer

```

```

 LPAR
'('
 NAME
'child'
 RPAR
')'
 /trailer
 /power
 /yield_arg
 /yield_expr
 NEWLINE
'\n'
 /simple_stmt
 DEDENT
"
 /suite
 /for_stmt
 simple_stmt
 expr_stmt
 power
 NAME
'\n '
'self'
 trailer
 DOT
':'
 NAME
'tree_depth'
 /trailer
 /power
 MINEQUAL
''
'=='
 NUMBER
''
'1'
 /expr_stmt
 NEWLINE
'\n'
 /simple_stmt
 simple_stmt
 power
 NAME
', '
'out'
 trailer
 LPAR
'('

```



```

 arglist
 STRING
"f{indent}/{_type}"
 COMMA
','
 argument
 NAME
''
'fg'
 EQUAL
'='
 STRING
"yellow"
 /argument
 COMMA
','
 argument
 NAME
''
'bold'
 EQUAL
'='
 NAME
'False'
 /argument
 /arglist
 RPAR
')'
 /trailer
 /power
 NEWLINE
'\n'
 /simple_stmt
 DEDENT
''
 /suite
 NAME
','
'else'
 COLON
':'
 suite
 NEWLINE
'\n'
 INDENT
''
 simple_stmt
 expr_stmt

```

```

NAME
' '
'_type'
EQUAL
''
'='
power
NAME
''
'token'
trailer
DOT
''
NAME
'tok_name'
/trailer
trailer
DOT
''
NAME
'get'
/trailer
trailer
LPAR
'('
arglist
power
NAME
'node'
trailer
DOT
''
NAME
'type'
/trailer
/power
COMMA
''
power
NAME
''
'str'
trailer
LPAR
'('
power
NAME
'node'

```

```

 trailer
 DOT
'.'
 NAME
'type'
 /trailer
 /power
 RPAR
')'
 /trailer
 /power
 /arglist
 RPAR
')'
 /trailer
 /power
 /expr_stmt
 NEWLINE
'\n'
 /simple_stmt
 simple_stmt
 power
 NAME
','
'out'
 trailer
 LPAR
'('
 arglist
 STRING
"f{indent}{_type}"
 COMMA
','
 argument
 NAME
''
'fg'
 EQUAL
'='
 STRING
"blue"
 /argument
 COMMA
','
 argument
 NAME
''
'\n'

```

```

 EQUAL
'='
 NAME
'False'
 /argument
 /arglist
 RPAR
')'
 /trailer
 /power
 NEWLINE
'\n'
 /simple_stmt
 if_stmt
 NAME
','
'if'
 power
 NAME
''
'node'
 trailer
 DOT
':'
 NAME
'prefix'
 /trailer
 /power
 COLON
':'
 suite
 NEWLINE
'\n'
 INDENT
"
 simple_stmt
 power
 NAME
" # We don't have to handle prefixes for `Node` objects since\n # that delegates to the first child
anyway.\n "
'out'
 trailer
 LPAR
'('
 arglist
 STRING
"f {node.prefix!r}"
 COMMA

```

```

'
 argument
 NAME
''
'fg'
 EQUAL
'='
 STRING
"green"
 /argument
 COMMA
'
 argument
 NAME
''
'bold'
 EQUAL
'='
 NAME
'False'
 /argument
 COMMA
'
 argument
 NAME
''
'nl'
 EQUAL
'='
 NAME
'False'
 /argument
 /arglist
 RPAR
')'
 /trailer
 /power
 NEWLINE
'\n'
 /simple_stmt
 DEDENT
''
 /suite
 /if_stmt
 simple_stmt
 power
 NAME
'
'

```

```

'out'
 trailer
 LPAR
'('
 arglist
 STRING
"f {node.value!r}"
 COMMA
','
 argument
 NAME
''
'fg'
 EQUAL
'='
 STRING
"blue"
 /argument
 COMMA
','
 argument
 NAME
''
'bold'
 EQUAL
'='
 NAME
'False'
 /argument
 /arglist
 RPAR
')'
 /trailer
 /power
 NEWLINE
'\n'
 /simple_stmt
 DEDENT
"
 /suite
 /if_stmt
 DEDENT
"
 /suite
 /funcdef
 decorated
 decorator
 AT

```

```

'\n '
 '@'
 NAME
'classmethod'
 NEWLINE
'\n'
 /decorator
 funcdef
 NAME
' '
'def'
 NAME
''
'show'
 parameters
 LPAR
 '('
 typedargslist
 NAME
'cls'
 COMMA
 ';'
 tname
 NAME
''
'code'
 COLON
 ':'
 NAME
''
'str'
 /tname
 /typedargslist
 RPAR
 ')'
 /parameters
 RARROW
''
'>'
 NAME
''
'None'
 COLON
 ':'
 suite
 NEWLINE
'\n'
 INDENT

```

```

"
 simple_stmt
 STRING
' '
""""Pretty-prints a given string of `code`. \n\n Convenience method for debugging.\n """"
 NEWLINE
'\n'
 /simple_stmt
 simple_stmt
 expr_stmt
 NAME
' '
'v'
 annassign
 COLON
': '
 power
 NAME
''
'DebugVisitor'
 trailer
 LSQB
'['
 NAME
'None'
 RSQB
']'
 /trailer
 /power
 EQUAL
''
'≡'
 power
 NAME
''
'DebugVisitor'
 trailer
 LPAR
'('
 RPAR
')'
 /trailer
 /power
 /annassign
 /expr_stmt
 NEWLINE
'\n'
 /simple_stmt

```



```

 simple_stmt
 power
 NAME
'list'
 trailer
 LPAR
'('
 power
 NAME
'v'
 trailer
 DOT
':'
 NAME
'visit'
 /trailer
 trailer
 LPAR
'('
 power
 NAME
'lib2to3_parse'
 trailer
 LPAR
'('
 NAME
'code'
 RPAR
')'
 /trailer
 /power
 RPAR
')'
 /trailer
 /power
 RPAR
')'
 /trailer
 /power
 NEWLINE
'\n'
 /simple_stmt
 DEDENT
"
 /suite
 /funcdef
 /decorated

```

```
DEDEDENT
"
 /suite
 /classdef
 /decorated
 ENDMARKER
"
/file_input
[//]: # "NOTE: THIS FILE WAS AUTOGENERATED FROM CHANGES.md"

Change Log

20.8b1

Packaging

- explicitly depend on Click 7.1.2 or newer as `Black` no longer works with versions
 older than 7.0

20.8b0

Black

- re-implemented support for explicit trailing commas: now it works consistently within
 any bracket pair, including nested structures (#1288 and duplicates)

- `Black` now reindents docstrings when reindenting code around it (#1053)

- `Black` now shows colored diffs (#1266)

- `Black` is now packaged using 'py3' tagged wheels (#1388)

- `Black` now supports Python 3.8 code, e.g. star expressions in return statements
 (#1121)

- `Black` no longer normalizes capital R-string prefixes as those have a
 community-accepted meaning (#1244)

- `Black` now uses exit code 2 when specified configuration file doesn't exist (#1361)

- `Black` now works on AWS Lambda (#1141)

- added `--force-exclude` argument (#1032)

- removed deprecated `--py36` option (#1236)

- fixed `--diff` output when EOF is encountered (#526)
```

- fixed ``# fmt: off`` handling around decorators (#560)
- fixed unstable formatting with some ``# type: ignore`` comments (#1113)
- fixed invalid removal on organizing brackets followed by indexing (#1575)
- introduced ``black-primer``, a CI tool that allows us to run regression tests against existing open source users of Black (#1402)
- introduced property-based fuzzing to our test suite based on Hypothesis and Hypothesmith (#1566)
- implemented experimental and disabled by default long string rewrapping (#1132), hidden under a ``--experimental-string-processing`` flag while it's being worked on; this is an undocumented and unsupported feature, you lose Internet points for depending on it (#1609)

#### #### Vim plugin

- prefer virtualenv packages over global packages (#1383)

#### ### 19.10b0

- added support for PEP 572 assignment expressions (#711)
- added support for PEP 570 positional-only arguments (#943)
- added support for async generators (#593)
- added support for pre-splitting collections by putting an explicit trailing comma inside (#826)
- added ``black -c`` as a way to format code passed from the command line (#761)
- `--safe` now works with Python 2 code (#840)
- fixed grammar selection for Python 2-specific code (#765)
- fixed feature detection for trailing commas in function definitions and call sites (#763)
- ``# fmt: off`/`# fmt: on`` comment pairs placed multiple times within the same block of code now behave correctly (#1005)
- `_Black_` no longer crashes on Windows machines with more than 61 cores (#838)
- `_Black_` no longer crashes on standalone comments prepended with a backslash (#767)

- `_Black_` no longer crashes on ``from` ... `import`` blocks with comments (#829)
  - `_Black_` no longer crashes on Python 3.7 on some platform configurations (#494)
  - `_Black_` no longer fails on comments in from-imports (#671)
  - `_Black_` no longer fails when the file starts with a backslash (#922)
  - `_Black_` no longer merges regular comments with type comments (#1027)
  - `_Black_` no longer splits long lines that contain type comments (#997)
  - removed unnecessary parentheses around ``yield`` expressions (#834)
  - added parentheses around long tuples in unpacking assignments (#832)
  - added parentheses around complex powers when they are prefixed by a unary operator (#646)
  - fixed bug that led `_Black_` format some code with a line length target of 1 (#762)
  - `_Black_` no longer introduces quotes in f-string subexpressions on string boundaries (#863)
  - if `_Black_` puts parenthesis around a single expression, it moves comments to the wrapped expression instead of after the brackets (#872)
  - ``blackd`` now returns the version of `_Black_` in the response headers (#1013)
  - ``blackd`` can now output the diff of formats on source code when the ``X-Diff`` header is provided (#969)
- ### 19.3b0
- new option ``--target-version`` to control which Python versions `_Black_`-formatted code should target (#618)
  - deprecated ``--py36`` (use ``--target-version=py36`` instead) (#724)
  - `_Black_` no longer normalizes numeric literals to include ``_`` separators (#696)
  - long ``del`` statements are now split into multiple lines (#698)
  - type comments are no longer mangled in function signatures
  - improved performance of formatting deeply nested data structures (#509)
  - `_Black_` now properly formats multiple files in parallel on Windows (#632)

- `_Black_` now creates cache files atomically which allows it to be used in parallel pipelines (like ``xargs -P8``) (#673)
- `_Black_` now correctly indents comments in files that were previously formatted with tabs (#262)
- ``blackd`` now supports CORS (#622)

### ### 18.9b0

- numeric literals are now formatted by `_Black_` (#452, #461, #464, #469):
  - numeric literals are normalized to include ``_`` separators on Python 3.6+ code
  - added ``--skip-numeric-underscore-normalization`` to disable the above behavior and leave numeric underscores as they were in the input
  - code with ``_`` in numeric literals is recognized as Python 3.6+
  - most letters in numeric literals are lowercased (e.g., in ``1e10``, ``0x01``)
  - hexadecimal digits are always uppercased (e.g. ``0xBADC0DE``)
- added ``blackd``, see [its documentation](#blackd) for more info (#349)
- adjacent string literals are now correctly split into multiple lines (#463)
- trailing comma is now added to single imports that don't fit on a line (#250)
- cache is now populated when ``--check`` is successful for a file which speeds up consecutive checks of properly formatted unmodified files (#448)
- whitespace at the beginning of the file is now removed (#399)
- fixed mangling [pweave](http://mpastell.com/pweave/) and [Spyder IDE](https://www.spyder-ide.org/) special comments (#532)
- fixed unstable formatting when unpacking big tuples (#267)
- fixed parsing of ``__future__`` imports with renames (#389)
- fixed scope of ``# fmt: off`` when directly preceding ``yield`` and other nodes (#385)
- fixed formatting of lambda expressions with default arguments (#468)
- fixed ``async for`` statements: `_Black_` no longer breaks them into separate lines (#372)

- note: the Vim plugin stopped registering `=` as a default chord as it turned out to be a bad idea (#415)

### ### 18.6b4

- hotfix: don't freeze when multiple comments directly precede `# fmt: off` (#371)

### ### 18.6b3

- typing stub files (`.pyi`) now have blank lines added after constants (#340)

- `# fmt: off` and `# fmt: on` are now much more dependable:

- they now work also within bracket pairs (#329)

- they now correctly work across function/class boundaries (#335)

- they now work when an indentation block starts with empty lines or misaligned comments (#334)

- made Click not fail on invalid environments; note that Click is right but the likelihood we'll need to access non-ASCII file paths when dealing with Python source code is low (#277)

- fixed improper formatting of f-strings with quotes inside interpolated expressions (#322)

- fixed unnecessary slowdown when long list literals were found in a file

- fixed unnecessary slowdown on AST nodes with very many siblings

- fixed cannibalizing backslashes during string normalization

- fixed a crash due to symbolic links pointing outside of the project directory (#338)

### ### 18.6b2

- added `--config` (#65)

- added `-h` equivalent to `--help` (#316)

- fixed improper unmodified file caching when `-S` was used

- fixed extra space in string unpacking (#305)

- fixed formatting of empty triple quoted strings (#313)

- fixed unnecessary slowdown in comment placement calculation on lines without comments

### ### 18.6b1

- hotfix: don't output human-facing information on stdout (#299)
- hotfix: don't output cake emoji on non-zero return code (#300)

### ### 18.6b0

- added `--include` and --exclude` (#270)`
- added `--skip-string-normalization` (#118)`
- added `--verbose` (#283)`
- the header output in `--diff` now actually conforms to the unified diff spec`
- fixed long trivial assignments being wrapped in unnecessary parentheses (#273)
- fixed unnecessary parentheses when a line contained multiline strings (#232)
- fixed stdin handling not working correctly if an old version of Click was used (#276)
- `_Black_` now preserves line endings when formatting a file in place (#258)`

### ### 18.5b1

- added `--pyi` (#249)`
- added `--py36` (#249)`
- Python grammar pickle caches are stored with the formatting caches, making `_Black_` work in environments where site-packages is not user-writable (#192)`
- `_Black_` now enforces a PEP 257 empty line after a class-level docstring (and/or fields) and the first method`
- fixed invalid code produced when standalone comments were present in a trailer that was omitted from line splitting on a large expression (#237)
- fixed optional parentheses being removed within `# fmt: off` sections (#224)`
- fixed invalid code produced when stars in very long imports were incorrectly wrapped in optional parentheses (#234)
- fixed unstable formatting when inline comments were moved around in a trailer that was omitted from line splitting on a large expression (#238)

- fixed extra empty line between a class declaration and the first method if no class docstring or fields are present (#219)

- fixed extra empty line between a function signature and an inner function or inner class (#196)

### 18.5b0

- call chains are now formatted according to the [fluent interfaces]([https://en.wikipedia.org/wiki/Fluent\\_interface](https://en.wikipedia.org/wiki/Fluent_interface)) style (#67)

- data structure literals (tuples, lists, dictionaries, and sets) are now also always exploded like imports when they don't fit in a single line (#152)

- slices are now formatted according to PEP 8 (#178)

- parentheses are now also managed automatically on the right-hand side of assignments and return statements (#140)

- math operators now use their respective priorities for delimiting multiline expressions (#148)

- optional parentheses are now omitted on expressions that start or end with a bracket and only contain a single operator (#177)

- empty parentheses in a class definition are now removed (#145, #180)

- string prefixes are now standardized to lowercase and `u` is removed on Python 3.6+ only code and Python 2.7+ code with the `unicode\_literals` future import (#188, #198, #199)

- typing stub files (`.pyi`) are now formatted in a style that is consistent with PEP 484 (#207, #210)

- progress when reformatting many files is now reported incrementally

- fixed trailers (content with brackets) being unnecessarily exploded into their own lines after a dedented closing bracket (#119)

- fixed an invalid trailing comma sometimes left in imports (#185)

- fixed non-deterministic formatting when multiple pairs of removable parentheses were used (#183)

- fixed multiline strings being unnecessarily wrapped in optional parentheses in long assignments (#215)

- fixed not splitting long from-imports with only a single name



- fixed Python 3.6+ file discovery by also looking at function calls with unpacking. This fixed non-deterministic formatting if trailing commas were used both in function signatures with stars and function calls with stars but the former would be reformatted to a single line.

- fixed crash on dealing with optional parentheses (#193)

- fixed "is", "is not", "in", and "not in" not considered operators for splitting purposes

- fixed crash when dead symlinks were encountered

### 18.4a4

- don't populate the cache on `--check` (#175)

### 18.4a3

- added a "cache"; files already reformatted that haven't changed on disk won't be reformatted again (#109)

- `--check` and `--diff` are no longer mutually exclusive (#149)

- generalized star expression handling, including double stars; this fixes multiplication making expressions "unsafe" for trailing commas (#132)

- `_Black_` no longer enforces putting empty lines behind control flow statements (#90)

- `_Black_` now splits imports like "Mode 3 + trailing comma" of isort (#127)

- fixed comment indentation when a standalone comment closes a block (#16, #32)

- fixed standalone comments receiving extra empty lines if immediately preceding a class, def, or decorator (#56, #154)

- fixed `--diff` not showing entire path (#130)

- fixed parsing of complex expressions after star and double stars in function calls (#2)

- fixed invalid splitting on comma in lambda arguments (#133)

- fixed missing splits of ternary expressions (#141)

### 18.4a2

- fixed parsing of unaligned standalone comments (#99, #112)

- fixed placement of dictionary unpacking inside dictionary literals (#111)
- Vim plugin now works on Windows, too
- fixed unstable formatting when encountering unnecessarily escaped quotes in a string (#120)

### 18.4a1

- added `--quiet`` (#78)
- added automatic parentheses management (#4)
- added [pre-commit](https://pre-commit.com) integration (#103, #104)
- fixed reporting on `--check`` with multiple files (#101, #102)
- fixed removing backslash escapes from raw strings (#100, #105)

### 18.4a0

- added `--diff`` (#87)
- add line breaks before all delimiters, except in cases like commas, to better comply with PEP 8 (#73)
- standardize string literals to use double quotes (almost) everywhere (#75)
- fixed handling of standalone comments within nested bracketed expressions; `_Black_` will no longer produce super long lines or put all standalone comments at the end of the expression (#22)
- fixed 18.3a4 regression: don't crash and burn on empty lines with trailing whitespace (#80)
- fixed 18.3a4 regression: ``# yapf: disable`` usage as trailing comment would cause `_Black_` to not emit the rest of the file (#95)
- when CTRL+C is pressed while formatting many files, `_Black_` no longer freaks out with a flurry of asyncio-related exceptions
- only allow up to two empty lines on module level and only single empty lines within functions (#74)

### 18.3a4

- ``# fmt: off`` and ``# fmt: on`` are implemented (#5)

- automatic detection of deprecated Python 2 forms of print statements and exec statements in the formatted file (#49)
- use proper spaces for complex expressions in default values of typed function arguments (#60)
- only return exit code 1 when --check is used (#50)
- don't remove single trailing commas from square bracket indexing (#59)
- don't omit whitespace if the previous factor leaf wasn't a math operator (#55)
- omit extra space in kwarg unpacking if it's the first argument (#46)
- omit extra space in  
[Sphinx auto-attribute comments](<http://www.sphinx-doc.org/en/stable/ext/autodoc.html#directive-autoattribute>) (#68)

### ### 18.3a3

- don't remove single empty lines outside of bracketed expressions (#19)
- added ability to pipe formatting from stdin to stdout (#25)
- restored ability to format code with legacy usage of `async` as a name (#20, #42)
- even better handling of numpy-style array indexing (#33, again)

### ### 18.3a2

- changed positioning of binary operators to occur at beginning of lines instead of at the end, following  
[a recent change to PEP 8](<https://github.com/python/peps/commit/c59c4376ad233a62ca4b3a6060c81368bd21e85b>) (#21)
- ignore empty bracket pairs while splitting. This avoids very weirdly looking formattings (#34, #35)
- remove a trailing comma if there is a single argument to a call
- if top level functions were separated by a comment, don't put four empty lines after the upper function
- fixed unstable formatting of newlines with imports
- fixed unintentional folding of post scriptum standalone comments into last statement

if it was a simple statement (#18, #28)

- fixed missing space in numpy-style array indexing (#33)

- fixed spurious space after star-based unary expressions (#31)

### 18.3a1

- added `--check`

- only put trailing commas in function signatures and calls if it's safe to do so. If the file is Python 3.6+ it's always safe, otherwise only safe if there are no `\*args` or `\*\*kwargs` used in the signature or call. (#8)

- fixed invalid spacing of dots in relative imports (#6, #13)

- fixed invalid splitting after comma on unpacked variables in for-loops (#23)

- fixed spurious space in parenthesized set expressions (#7)

- fixed spurious space after opening parentheses and in default arguments (#14, #17)

- fixed spurious space after unary operators when the operand was a complex expression (#15)

### 18.3a0

- first published version, Happy Day 2018!

- alpha quality

- date-versioned (see: <https://calver.org/>)

```
{
 "_meta": {
 "hash": {
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FROM python:3

ENV PYTHONDONTWRITEBYTECODE 1
ENV PYTHONUNBUFFERED 1

RUN pip install --upgrade --no-cache-dir black

ENTRYPOINT /usr/local/bin/black --check --diff .

name: Style issue

```



about: Help us improve the Black style

title: ""

labels: design

assignees: ""

---

**\*\*Describe the style change\*\*** A clear and concise description of how the style can be improved.

**\*\*Examples in the current `_Black_` style\*\*** Think of some short code snippets that show how the current `_Black_` style is not great:

```
```python
def f():
    "Make sure this code is blackened"
    pass
```
```

**\*\*Desired style\*\*** How do you think `_Black_` should format the above snippets:

```
```python
def f(
):
    pass
```
```

**\*\*Additional context\*\*** Add any other context about the problem here.

```
[!]: # "NOTE: THIS FILE WAS AUTOGENERATED FROM README.md"
```

# Show your style

Use the badge in your project's README.md:

```
```md
[![Code style: black](https://img.shields.io/badge/code%20style-black-000000.svg)](https://github.com/psf/black)
```
```

Using the badge in README.rst:

```
```
.. image:: https://img.shields.io/badge/code%20style-black-000000.svg
   :target: https://github.com/psf/black
```
```

Looks like this:

```
[![Code style: black](https://img.shields.io/badge/code%20style-black-000000.svg)](https://github.com/psf/black)
Note: don't use this config for your own repositories. Instead, see
"Version control integration" in README.md.
```

```
exclude: ^(src/blib2to3/profiling/tests/data/)
repos:
- repo: local
 hooks:
 - id: black
 name: black
 language: system
 entry: black
 require_serial: true
 types: [python]

- repo: https://gitlab.com/pycqa/flake8
 rev: 3.8.1
 hooks:
 - id: flake8
 additional_dependencies: [flake8-bugbear]

- repo: https://github.com/pre-commit/mirrors-mypy
 rev: v0.770
 hooks:
 - id: mypy
 exclude: ^docs/conf.py

- repo: https://github.com/prettier/prettier
 rev: 1.19.1
 hooks:
 - id: prettier
 args: [--prose-wrap=always, --print-width=88]
FROM python:3.8.2-slim
```

```
note: a single RUN to avoid too many image layers being produced
RUN apt-get update \
&& apt-get upgrade -y \
&& apt-get install git apt-utils -y \
&& git config --global user.email "black@psf.github.com" \
&& git config --global user.name "Gallery/Black"
```

```
COPY gallery.py /
ENTRYPOINT ["python", "/gallery.py"]
[tool.black]
verbose = 1
--check = "no"
diff = "y"
color = true
line-length = 79
target-version = ["py36", "py37", "py38"]
exclude='\.pyi?$'
include='\.py?$'
```

## # Gallery

Gallery is a script that automates the process of applying different `_Black_` versions to a selected PyPI package and seeing the results between `_Black_` versions.

## ## Build

```
```console
```

```
$ docker build -t black_gallery .
```

```
```
```

## ## Run

```
```console
```

```
$ docker run -it -v /host/output:/output -v /host/input:/input black_gallery:latest [args]
```

```
```
```

```
```
```

```
usage: gallery.py [-h] (-p PYPI_PACKAGE | -t TOP_PACKAGES) [-b BLACK_REPO] [-v VERSION] [-w WORKERS] [-i INPUT] [-o OUTPUT]
                [versions [versions ...]]
```

Black Gallery is a script that automates the process of applying different Black versions to a selected PyPI package and seeing the results between versions.

positional arguments:

versions

optional arguments:

`-h, --help` show this help message and exit

`-p PYPI_PACKAGE, --pypi-package PYPI_PACKAGE`
PyPI package to download.

`-t TOP_PACKAGES, --top-packages TOP_PACKAGES`
Top n PyPI packages to download.

`-b BLACK_REPO, --black-repo BLACK_REPO`
Black's Git repository.

`-v VERSION, --version VERSION`
Version for given PyPI package. Will be discarded if used with `-t` option.

`-w WORKERS, --workers WORKERS`
Maximum number of threads to download with at the same time. Will be discarded if used with `-p` option.

`-i INPUT, --input INPUT`
Input directory to read configuration.

`-o OUTPUT, --output OUTPUT`
Output directory to download and put result artifacts.

```
```
```

```
version: 2
python:
 version: 3.8
install:
 - requirements: docs/requirements.txt
 - method: setuptools
 path: .
[//]: # "NOTE: THIS FILE WAS AUTOGENERATED FROM README.md"
```

```
pyproject.toml
```

`_Black_` is able to read project-specific default values for its command line options from a `pyproject.toml` file. This is especially useful for specifying custom `--include` and `--exclude` patterns for your project.

**Pro-tip:** If you're asking yourself "Do I need to configure anything?" the answer is "No". `_Black_` is all about sensible defaults.

```
What on Earth is a `pyproject.toml` file?
```

[PEP 518](<https://www.python.org/dev/peps/pep-0518/>) defines `pyproject.toml` as a configuration file to store build system requirements for Python projects. With the help of tools like [Poetry](<https://python-poetry.org/>) or [Flit](<https://flit.readthedocs.io/en/latest/>) it can fully replace the need for `setup.py` and `setup.cfg` files.

```
Where _Black_ looks for the file
```

By default `_Black_` looks for `pyproject.toml` starting from the common base directory of all files and directories passed on the command line. If it's not there, it looks in parent directories. It stops looking when it finds the file, or a `.git` directory, or a `.hg` directory, or the root of the file system, whichever comes first.

If you're formatting standard input, `_Black_` will look for configuration starting from the current working directory.

You can also explicitly specify the path to a particular file that you want with `--config`. In this situation `_Black_` will not look for any other file.

If you're running with `--verbose`, you will see a blue message if a file was found and used.

Please note `blackd` will not use `pyproject.toml` configuration.

```
Configuration format
```

As the file extension suggests, `pyproject.toml` is a [TOML](<https://github.com/toml-lang/toml>) file. It contains separate sections for

different tools. `_Black_` is using the `[tool.black]` section. The option keys are the same as long names of options on the command line.

Note that you have to use single-quoted strings in TOML for regular expressions. It's the equivalent of r-strings in Python. Multiline strings are treated as verbose regular expressions by Black. Use ``[ ]`` to denote a significant space character.

<details>

<summary>Example `pyproject.toml`</summary>

```
``toml
[tool.black]
line-length = 88
target-version = ['py37']
include = '\.pyi?$'
exclude = ""

(
 /(
 \.eggs # exclude a few common directories in the
 | \.git # root of the project
 | \.hg
 | \.mypy_cache
 | \.tox
 | \.venv
 | _build
 | buck-out
 | build
 | dist
)/
 | foo.py # also separately exclude a file named foo.py in
 # the root of the project
)
""
``
```

</details>

## Lookup hierarchy

Command-line options have defaults that you can see in `--help`. A `pyproject.toml` can override those defaults. Finally, options provided by the user on the command line override both.

`_Black_` will only ever use one `pyproject.toml` file during an entire run. It doesn't look for multiple files, and doesn't compose configuration from different levels of the file hierarchy.

```
Empty pyproject.toml to use with some tests that depend on Python 3.6 autodiscovery
and so on.

name: Bug report
about: Create a report to help us improve
title: ""
labels: bug
assignees: ""

```

**\*\*Describe the bug\*\*** A clear and concise description of what the bug is.

**\*\*To Reproduce\*\*** Steps to reproduce the behavior:

1. Take this file '...'
2. Run `_Black_` on it with these arguments '...'
3. See error

**\*\*Expected behavior\*\*** A clear and concise description of what you expected to happen.

**\*\*Environment (please complete the following information):\*\***

- Version: [e.g. master]
- OS and Python version: [e.g. Linux/Python 3.7.4rc1]

**\*\*Does this bug also happen on master?\*\*\*** To answer this, you have two options:

1. Use the online formatter at <https://black.now.sh/?version=master>, which will use the latest master branch.
2. Or run `_Black_` on your machine:
  - create a new virtualenv (make sure it's the same Python version);
  - clone this repository;
  - run ``pip install -e .``;
  - make sure it's sane by running ``python -m unittest``; and
  - run ``black`` like you did last time.

**\*\*Additional context\*\*** Add any other context about the problem here.

name: Fuzz

on: [push, pull\_request]

jobs:

build:

runs-on: ubuntu-latest

strategy:

fail-fast: false

matrix:

python-version: [3.6, 3.7, 3.8]

```
steps:
 - uses: actions/checkout@v2

 - name: Set up Python ${{ matrix.python-version }}
 uses: actions/setup-python@v2
 with:
 python-version: ${{ matrix.python-version }}

 - name: Install dependencies
 run: |
 python -m pip install --upgrade pip
 python -m pip install --upgrade coverage
 python -m pip install --upgrade hypothesmith
 python -m pip install -e ".[d]"

 - name: Run fuzz tests
 run: |
 coverage run fuzz.py
 coverage report
name: Documentation Build
```

```
on:
 push:
 paths:
 - "docs/**"
 - "README.md"
 - "CHANGES.md"
 - "CONTRIBUTING.md"
 pull_request:
 paths:
 - "docs/**"
 - "README.md"
 - "CHANGES.md"
 - "CONTRIBUTING.md"
```

```
jobs:
 build:
 runs-on: ubuntu-latest

 steps:
 - uses: actions/checkout@v2

 - name: Set up Python 3.8
 uses: actions/setup-python@v2
 with:
 python-version: 3.8
```

```
- name: Install dependencies
run: |
 python -m pip install --upgrade pip setuptools wheel
 python -m pip install -e "."
 python -m pip install -r "docs/requirements.txt"

- name: Build documentation
run: sphinx-build -a -b html -W docs/ docs/_build/
Change Log

20.8b1

Packaging

- explicitly depend on Click 7.1.2 or newer as `Black` no longer works with versions
 older than 7.0

20.8b0

Black

- re-implemented support for explicit trailing commas: now it works consistently within
 any bracket pair, including nested structures (#1288 and duplicates)

- `Black` now reindents docstrings when reindenting code around it (#1053)

- `Black` now shows colored diffs (#1266)

- `Black` is now packaged using 'py3' tagged wheels (#1388)

- `Black` now supports Python 3.8 code, e.g. star expressions in return statements
 (#1121)

- `Black` no longer normalizes capital R-string prefixes as those have a
 community-accepted meaning (#1244)

- `Black` now uses exit code 2 when specified configuration file doesn't exist (#1361)

- `Black` now works on AWS Lambda (#1141)

- added `--force-exclude` argument (#1032)

- removed deprecated `--py36` option (#1236)

- fixed `--diff` output when EOF is encountered (#526)

- fixed `# fmt: off` handling around decorators (#560)
```



- fixed unstable formatting with some ``# type: ignore`` comments (#1113)
- fixed invalid removal on organizing brackets followed by indexing (#1575)
- introduced ``black-primer``, a CI tool that allows us to run regression tests against existing open source users of Black (#1402)
- introduced property-based fuzzing to our test suite based on Hypothesis and Hypothesismith (#1566)
- implemented experimental and disabled by default long string rewrapping (#1132), hidden under a ``--experimental-string-processing`` flag while it's being worked on; this is an undocumented and unsupported feature, you lose Internet points for depending on it (#1609)

#### #### Vim plugin

- prefer virtualenv packages over global packages (#1383)

#### ### 19.10b0

- added support for PEP 572 assignment expressions (#711)
- added support for PEP 570 positional-only arguments (#943)
- added support for async generators (#593)
- added support for pre-splitting collections by putting an explicit trailing comma inside (#826)
- added ``black -c`` as a way to format code passed from the command line (#761)
- ``--safe`` now works with Python 2 code (#840)
- fixed grammar selection for Python 2-specific code (#765)
- fixed feature detection for trailing commas in function definitions and call sites (#763)
- ``# fmt: off`/`# fmt: on`` comment pairs placed multiple times within the same block of code now behave correctly (#1005)
- ``_Black_`` no longer crashes on Windows machines with more than 61 cores (#838)
- ``_Black_`` no longer crashes on standalone comments prepended with a backslash (#767)
- ``_Black_`` no longer crashes on ``from` ... `import` blocks with comments (#829)`

- `_Black_` no longer crashes on Python 3.7 on some platform configurations (#494)
- `_Black_` no longer fails on comments in from-imports (#671)
- `_Black_` no longer fails when the file starts with a backslash (#922)
- `_Black_` no longer merges regular comments with type comments (#1027)
- `_Black_` no longer splits long lines that contain type comments (#997)
- removed unnecessary parentheses around ``yield`` expressions (#834)
- added parentheses around long tuples in unpacking assignments (#832)
- added parentheses around complex powers when they are prefixed by a unary operator (#646)
- fixed bug that led `_Black_` format some code with a line length target of 1 (#762)
- `_Black_` no longer introduces quotes in f-string subexpressions on string boundaries (#863)
- if `_Black_` puts parenthesis around a single expression, it moves comments to the wrapped expression instead of after the brackets (#872)
- ``blackd`` now returns the version of `_Black_` in the response headers (#1013)
- ``blackd`` can now output the diff of formats on source code when the ``X-Diff`` header is provided (#969)

### 19.3b0

- new option ``--target-version`` to control which Python versions `_Black_`-formatted code should target (#618)
- deprecated ``-py36`` (use ``--target-version=py36`` instead) (#724)
- `_Black_` no longer normalizes numeric literals to include ``_`` separators (#696)
- long ``del`` statements are now split into multiple lines (#698)
- type comments are no longer mangled in function signatures
- improved performance of formatting deeply nested data structures (#509)
- `_Black_` now properly formats multiple files in parallel on Windows (#632)
- `_Black_` now creates cache files atomically which allows it to be used in parallel

pipelines (like ``xargs -P8``) (#673)

- `_Black_` now correctly indents comments in files that were previously formatted with tabs (#262)

- ``blackd`` now supports CORS (#622)

### 18.9b0

- numeric literals are now formatted by `_Black_` (#452, #461, #464, #469):

- numeric literals are normalized to include ``_`` separators on Python 3.6+ code

- added ``--skip-numeric-underscore-normalization`` to disable the above behavior and leave numeric underscores as they were in the input

- code with ``_`` in numeric literals is recognized as Python 3.6+

- most letters in numeric literals are lowercased (e.g., in ``1e10``, ``0x01``)

- hexadecimal digits are always uppercased (e.g. ``0xBADC0DE``)

- added ``blackd``, see [its documentation](#blackd) for more info (#349)

- adjacent string literals are now correctly split into multiple lines (#463)

- trailing comma is now added to single imports that don't fit on a line (#250)

- cache is now populated when ``--check`` is successful for a file which speeds up consecutive checks of properly formatted unmodified files (#448)

- whitespace at the beginning of the file is now removed (#399)

- fixed mangling [pweave](http://mpastell.com/pweave/) and [Spyder IDE](https://www.spyder-ide.org/) special comments (#532)

- fixed unstable formatting when unpacking big tuples (#267)

- fixed parsing of ``__future__`` imports with renames (#389)

- fixed scope of ``# fmt: off`` when directly preceding ``yield`` and other nodes (#385)

- fixed formatting of lambda expressions with default arguments (#468)

- fixed ``async for`` statements: `_Black_` no longer breaks them into separate lines (#372)

- note: the Vim plugin stopped registering ``>=`` as a default chord as it turned out to be a bad idea (#415)

### ### 18.6b4

- hotfix: don't freeze when multiple comments directly precede ``# fmt: off`` (#371)

### ### 18.6b3

- typing stub files (`.pyi``) now have blank lines added after constants (#340)
- ``# fmt: off`` and ``# fmt: on`` are now much more dependable:
  - they now work also within bracket pairs (#329)
  - they now correctly work across function/class boundaries (#335)
  - they now work when an indentation block starts with empty lines or misaligned comments (#334)
- made Click not fail on invalid environments; note that Click is right but the likelihood we'll need to access non-ASCII file paths when dealing with Python source code is low (#277)
- fixed improper formatting of f-strings with quotes inside interpolated expressions (#322)
- fixed unnecessary slowdown when long list literals were found in a file
- fixed unnecessary slowdown on AST nodes with very many siblings
- fixed cannibalizing backslashes during string normalization
- fixed a crash due to symbolic links pointing outside of the project directory (#338)

### ### 18.6b2

- added ``--config`` (#65)
- added ``-h`` equivalent to ``--help`` (#316)
- fixed improper unmodified file caching when ``-S`` was used
- fixed extra space in string unpacking (#305)
- fixed formatting of empty triple quoted strings (#313)
- fixed unnecessary slowdown in comment placement calculation on lines without comments

### ### 18.6b1

- hotfix: don't output human-facing information on stdout (#299)

- hotfix: don't output cake emoji on non-zero return code (#300)

### 18.6b0

- added `--include` and `--exclude` (#270)

- added `--skip-string-normalization` (#118)

- added `--verbose` (#283)

- the header output in `--diff` now actually conforms to the unified diff spec

- fixed long trivial assignments being wrapped in unnecessary parentheses (#273)

- fixed unnecessary parentheses when a line contained multiline strings (#232)

- fixed stdin handling not working correctly if an old version of Click was used (#276)

- `_Black_` now preserves line endings when formatting a file in place (#258)

### 18.5b1

- added `--pyi` (#249)

- added `--py36` (#249)

- Python grammar pickle caches are stored with the formatting caches, making `_Black_` work in environments where site-packages is not user-writable (#192)

- `_Black_` now enforces a PEP 257 empty line after a class-level docstring (and/or fields) and the first method

- fixed invalid code produced when standalone comments were present in a trailer that was omitted from line splitting on a large expression (#237)

- fixed optional parentheses being removed within `# fmt: off` sections (#224)

- fixed invalid code produced when stars in very long imports were incorrectly wrapped in optional parentheses (#234)

- fixed unstable formatting when inline comments were moved around in a trailer that was omitted from line splitting on a large expression (#238)

- fixed extra empty line between a class declaration and the first method if no class docstring or fields are present (#219)

- fixed extra empty line between a function signature and an inner function or inner class (#196)

### 18.5b0

- call chains are now formatted according to the [fluent interfaces]([https://en.wikipedia.org/wiki/Fluent\\_interface](https://en.wikipedia.org/wiki/Fluent_interface)) style (#67)

- data structure literals (tuples, lists, dictionaries, and sets) are now also always exploded like imports when they don't fit in a single line (#152)

- slices are now formatted according to PEP 8 (#178)

- parentheses are now also managed automatically on the right-hand side of assignments and return statements (#140)

- math operators now use their respective priorities for delimiting multiline expressions (#148)

- optional parentheses are now omitted on expressions that start or end with a bracket and only contain a single operator (#177)

- empty parentheses in a class definition are now removed (#145, #180)

- string prefixes are now standardized to lowercase and `u` is removed on Python 3.6+ only code and Python 2.7+ code with the `unicode\_literals` future import (#188, #198, #199)

- typing stub files (`.pyi`) are now formatted in a style that is consistent with PEP 484 (#207, #210)

- progress when reformatting many files is now reported incrementally

- fixed trailers (content with brackets) being unnecessarily exploded into their own lines after a dedented closing bracket (#119)

- fixed an invalid trailing comma sometimes left in imports (#185)

- fixed non-deterministic formatting when multiple pairs of removable parentheses were used (#183)

- fixed multiline strings being unnecessarily wrapped in optional parentheses in long assignments (#215)

- fixed not splitting long from-imports with only a single name

- fixed Python 3.6+ file discovery by also looking at function calls with unpacking.

This fixed non-deterministic formatting if trailing commas were used both in function signatures with stars and function calls with stars but the former would be reformatted to a single line.

- fixed crash on dealing with optional parentheses (#193)
- fixed "is", "is not", "in", and "not in" not considered operators for splitting purposes
- fixed crash when dead symlinks were encountered

### 18.4a4

- don't populate the cache on `--check` (#175)

### 18.4a3

- added a "cache"; files already reformatted that haven't changed on disk won't be reformatted again (#109)
  - `--check` and `--diff` are no longer mutually exclusive (#149)
  - generalized star expression handling, including double stars; this fixes multiplication making expressions "unsafe" for trailing commas (#132)
  - `_Black_` no longer enforces putting empty lines behind control flow statements (#90)
  - `_Black_` now splits imports like "Mode 3 + trailing comma" of `isort` (#127)
  - fixed comment indentation when a standalone comment closes a block (#16, #32)
  - fixed standalone comments receiving extra empty lines if immediately preceding a class, def, or decorator (#56, #154)
  - fixed `--diff` not showing entire path (#130)
  - fixed parsing of complex expressions after star and double stars in function calls (#2)
  - fixed invalid splitting on comma in lambda arguments (#133)
  - fixed missing splits of ternary expressions (#141)
- ### 18.4a2
- fixed parsing of unaligned standalone comments (#99, #112)
  - fixed placement of dictionary unpacking inside dictionary literals (#111)

- Vim plugin now works on Windows, too
- fixed unstable formatting when encountering unnecessarily escaped quotes in a string (#120)

#### ### 18.4a1

- added `--quiet` (#78)`
- added automatic parentheses management (#4)
- added [pre-commit](https://pre-commit.com) integration (#103, #104)
- fixed reporting on `--check` with multiple files (#101, #102)`
- fixed removing backslash escapes from raw strings (#100, #105)

#### ### 18.4a0

- added `--diff` (#87)`
- add line breaks before all delimiters, except in cases like commas, to better comply with PEP 8 (#73)
- standardize string literals to use double quotes (almost) everywhere (#75)
- fixed handling of standalone comments within nested bracketed expressions; `_Black_` will no longer produce super long lines or put all standalone comments at the end of the expression (#22)`
- fixed 18.3a4 regression: don't crash and burn on empty lines with trailing whitespace (#80)
- fixed 18.3a4 regression: ``# yapf: disable` usage as trailing comment would cause _Black_` to not emit the rest of the file (#95)`
- when CTRL+C is pressed while formatting many files, `_Black_` no longer freaks out with a flurry of async-related exceptions`
- only allow up to two empty lines on module level and only single empty lines within functions (#74)

#### ### 18.3a4

- ``# fmt: off` and `# fmt: on` are implemented (#5)`
- automatic detection of deprecated Python 2 forms of print statements and exec



statements in the formatted file (#49)

- use proper spaces for complex expressions in default values of typed function arguments (#60)
- only return exit code 1 when --check is used (#50)
- don't remove single trailing commas from square bracket indexing (#59)
- don't omit whitespace if the previous factor leaf wasn't a math operator (#55)
- omit extra space in kwarg unpacking if it's the first argument (#46)
- omit extra space in [Sphinx auto-attribute comments](<http://www.sphinx-doc.org/en/stable/ext/autodoc.html#directive-autoattribute>) (#68)

### ### 18.3a3

- don't remove single empty lines outside of bracketed expressions (#19)
- added ability to pipe formatting from stdin to stdin (#25)
- restored ability to format code with legacy usage of `async` as a name (#20, #42)
- even better handling of numpy-style array indexing (#33, again)

### ### 18.3a2

- changed positioning of binary operators to occur at beginning of lines instead of at the end, following [a recent change to PEP 8](<https://github.com/python/peps/commit/c59c4376ad233a62ca4b3a6060c81368bd21e85b>) (#21)
- ignore empty bracket pairs while splitting. This avoids very weirdly looking formattings (#34, #35)
- remove a trailing comma if there is a single argument to a call
- if top level functions were separated by a comment, don't put four empty lines after the upper function
- fixed unstable formatting of newlines with imports
- fixed unintentional folding of post scriptum standalone comments into last statement if it was a simple statement (#18, #28)

- fixed missing space in numpy-style array indexing (#33)

- fixed spurious space after star-based unary expressions (#31)

### 18.3a1

- added `--check`

- only put trailing commas in function signatures and calls if it's safe to do so. If the file is Python 3.6+ it's always safe, otherwise only safe if there are no `\*args` or `\*\*kwargs` used in the signature or call. (#8)

- fixed invalid spacing of dots in relative imports (#6, #13)

- fixed invalid splitting after comma on unpacked variables in for-loops (#23)

- fixed spurious space in parenthesized set expressions (#7)

- fixed spurious space after opening parentheses and in default arguments (#14, #17)

- fixed spurious space after unary operators when the operand was a complex expression (#15)

### 18.3a0

- first published version, Happy Day 2018!

- alpha quality

- date-versioned (see: <https://calver.org/>)

# Treat each other well

Everyone participating in the `_Black_` project, and in particular in the issue tracker, pull requests, and social media activity, is expected to treat other people with respect and more generally to follow the guidelines articulated in the [Python Community Code of Conduct](<https://www.python.org/psf/codeofconduct/>).

At the same time, humor is encouraged. In fact, basic familiarity with Monty Python's Flying Circus is expected. We are not savages.

And if you `_really_` need to slap somebody, do it with a fish while dancing.

[/]: # "NOTE: THIS FILE WAS AUTOGENERATED FROM README.md"

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- [Tzu-ping Chung](mailto:uranusjr@gmail.com)
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- utsav-dbx
- vezeli
- [Ville Skytt](mailto:ville.skytta@iki.fi)
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- Yazdan
- [Yngve Hiseth](mailto:yngve@hoiseth.net)
- [Yurii Karabas](mailto:1998uriyyo@gmail.com)
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name: Primer

on: [push, pull\_request]

jobs:

build:

runs-on: \${{ matrix.os }}

strategy:

fail-fast: false

matrix:

python-version: [3.6, 3.7, 3.8]

os: [ubuntu-latest, macOS-latest, windows-latest]

steps:

- uses: actions/checkout@v2

```
- name: Set up Python ${{ matrix.python-version }}
 uses: actions/setup-python@v2
 with:
 python-version: ${{ matrix.python-version }}

- name: Install dependencies
 run: |
 python -m pip install --upgrade pip
 python -m pip install -e ".[d]"

- name: Primer run
 env:
 pythonioencoding: utf-8
 run: |
 black-primer
- id: black
 name: black
 description: "Black: The uncompromising Python code formatter"
 entry: black
 language: python
 language_version: python3
 require_serial: true
 types: [python]
[/]: # "NOTE: THIS FILE WAS AUTOGENERATED FROM CONTRIBUTING.md"
```

# Contributing to `_Black_`

Welcome! Happy to see you willing to make the project better. Have you read the entire [user documentation](<https://black.readthedocs.io/en/latest/>) yet?

## Bird's eye view

In terms of inspiration, `_Black_` is about as configurable as `_gofmt_`. This is deliberate.

Bug reports and fixes are always welcome! Please follow the [issue template on GitHub](<https://github.com/psf/black/issues/new>) for best results.

Before you suggest a new feature or configuration knob, ask yourself why you want it. If it enables better integration with some workflow, fixes an inconsistency, speeds things up, and so on - go for it! On the other hand, if your answer is "because I don't like a particular formatting" then you're not ready to embrace `_Black_` yet. Such changes are unlikely to get accepted. You can still try but prepare to be disappointed.

## Technicalities

Development on the latest version of Python is preferred. As of this writing it's 3.8.

You can use any operating system. I am using macOS myself and CentOS at work.

Install all development dependencies using:

```
```console
$ pipenv install --dev
$ pipenv shell
$ pre-commit install
```
```

If you haven't used `pipenv` before but are comfortable with virtualenvs, just run `pip install pipenv` in the virtualenv you're already using and invoke the command above from the cloned `_Black_` repo. It will do the correct thing.

Before submitting pull requests, run lints and tests with:

```
```console
$ pre-commit run -a
$ python -m unittest
$ black-primer [-k -w /tmp/black_test_repos]
```
```

## black-primer

`black-primer` is used by CI to pull down well-known _Black_ formatted projects and see if we get source code changes. It will error on formatting changes or errors. Please run before pushing your PR to see if you get the actions you would expect from _Black_ with your PR. You may need to change [primer.json](https://github.com/psf/black/blob/master/src/black_primer/primer.json) configuration for it to pass.`

For more `black-primer` information visit the [documentation](https://github.com/psf/black/blob/master/docs/black_primer.md).`

## Hygiene

If you're fixing a bug, add a test. Run it first to confirm it fails, then fix the bug, run it again to confirm it's really fixed.

If adding a new feature, add a test. In fact, always add a test. But wait, before adding any large feature, first open an issue for us to discuss the idea first.

## Finally

Thanks again for your interest in improving the project! You're taking action when most people decide to sit and watch.

# Grammar for 2to3. This grammar supports Python 2.x and 3.x.



```

NOTE WELL: You should also follow all the steps listed at
https://devguide.python.org/grammar/

Start symbols for the grammar:
file_input is a module or sequence of commands read from an input file;
single_input is a single interactive statement;
eval_input is the input for the eval() and input() functions.
NB: compound_stmt in single_input is followed by extra NEWLINE!
file_input: (NEWLINE | stmt)* ENDMARKER
single_input: NEWLINE | simple_stmt | compound_stmt NEWLINE
eval_input: testlist NEWLINE* ENDMARKER

decorator: '@' dotted_name ['(' [arglist] ')'] NEWLINE
decorators: decorator+
decorated: decorators (classdef | funcdef | async_funcdef)
async_funcdef: ASYNC funcdef
funcdef: 'def' NAME parameters ['>' test] ':' suite
parameters: '(' [typedarglist] ')'

The following definition for typedarglist is equivalent to this set of rules:
#
arguments = argument (',' argument)*
argument = tfpdef ['=' test]
kwargs = '**' tname [',']
args = '*' [tname]
kwonly_kwargs = (',' argument)* [',' [kwargs]]
args_kwonly_kwargs = args kwonly_kwargs | kwargs
poskeyword_args_kwonly_kwargs = arguments [',' [args_kwonly_kwargs]]
typedarglist_no_posonly = poskeyword_args_kwonly_kwargs | args_kwonly_kwargs
typedarglist = arguments ';' '/' [',' [typedarglist_no_posonly]]|(typedarglist_no_posonly)"
#
It needs to be fully expanded to allow our LL(1) parser to work on it.

typedarglist: tfpdef ['=' test] (',' tfpdef ['=' test])* ';' '/' [
 ',' [((tfpdef ['=' test] ',')* ('*' [tname] (',' tname ['=' test])*)
 [',' ['**' tname [',']]] | '**' tname [',']
 | tfpdef ['=' test] (',' tfpdef ['=' test])* [',']
] | ((tfpdef ['=' test] ',')* ('*' [tname] (',' tname ['=' test])*)
 [',' ['**' tname [',']]] | '**' tname [',']
 | tfpdef ['=' test] (',' tfpdef ['=' test])* [',']

tname: NAME ['=' test]
tfpdef: tname | '(' tfplist ')'
tfplist: tfpdef (',' tfpdef)* [',']

The following definition for vararglist is equivalent to this set of rules:
#
arguments = argument (',' argument)*

```

```

argument = vfpdef ['=' test]
kwargs = '**' vname [,']
args = '*' [vname]
kwonly_kwargs = (' argument)* [' [kwargs]]
args_kwonly_kwargs = args kwonly_kwargs | kwargs
poskeyword_args_kwonly_kwargs = arguments [' [args_kwonly_kwargs]]
vararglist_no_posonly = poskeyword_args_kwonly_kwargs | args_kwonly_kwargs
vararglist = arguments ',' '/' [' [(vararglist_no_posonly)] | (vararglist_no_posonly)
#
It needs to be fully expanded to allow our LL(1) parser to work on it.

```

```

vararglist: vfpdef ['=' test](',' vfpdef ['=' test])* ',' '/' [' [
 ((vfpdef ['=' test] ',')* ('*' [vname] (' vname ['=' test])*
 [, ' ['**' vname [,']]] | '**' vname [,'])
 | vfpdef ['=' test] (' vfpdef ['=' test])* [,'])
] | ((vfpdef ['=' test] ',')*
 ('*' [vname] (' vname ['=' test])* [, ' ['**' vname [,']]] | '**' vname [,'])
 | vfpdef ['=' test] (' vfpdef ['=' test])* [,'])

```

vname: NAME

vfpdef: vname | '(' vflist ')'

vflist: vfpdef (' vfpdef)\* [,']

stmt: simple\_stmt | compound\_stmt

simple\_stmt: small\_stmt (; small\_stmt)\* [,'] NEWLINE

small\_stmt: (expr\_stmt | print\_stmt | del\_stmt | pass\_stmt | flow\_stmt |
 import\_stmt | global\_stmt | exec\_stmt | assert\_stmt)

expr\_stmt: testlist\_star\_expr (annassign | augassign (yield\_expr|testlist) |
 ('=' (yield\_expr|testlist\_star\_expr))\*

annassign: ':' test ['=' test]

testlist\_star\_expr: (test|star\_expr) (' (test|star\_expr))\* [,']

augassign: ('+=' | '-=' | '\*=' | '@=' | '/=' | '%=' | '&=' | '|=' | '^=' |
 '<<=' | '>>=' | '\*\*=' | '//=')

# For normal and annotated assignments, additional restrictions enforced by the interpreter

print\_stmt: 'print' ( [ test (' test)\* [,'] ] |

'>>' test [ (' test)+ [,'] ] )

del\_stmt: 'del' exprlist

pass\_stmt: 'pass'

flow\_stmt: break\_stmt | continue\_stmt | return\_stmt | raise\_stmt | yield\_stmt

break\_stmt: 'break'

continue\_stmt: 'continue'

return\_stmt: 'return' [testlist\_star\_expr]

yield\_stmt: yield\_expr

raise\_stmt: 'raise' [test ['from' test | ',' test [,'] test]]

import\_stmt: import\_name | import\_from

import\_name: 'import' dotted\_as\_names

import\_from: ('from' ('\*' dotted\_name | '.'+)

'import' ('\*' | '(' import\_as\_names ')' | import\_as\_names))

```

import_as_name: NAME ['as' NAME]
dotted_as_name: dotted_name ['as' NAME]
import_as_names: import_as_name (',' import_as_name)* [',']
dotted_as_names: dotted_as_name (',' dotted_as_name)*
dotted_name: NAME (.' NAME)*
global_stmt: ('global' | 'nonlocal') NAME (,' NAME)*
exec_stmt: 'exec' expr ['in' test [',' test]]
assert_stmt: 'assert' test [',' test]

compound_stmt: if_stmt | while_stmt | for_stmt | try_stmt | with_stmt | funcdef | classdef | decorated | async_stmt
async_stmt: ASYNC (funcdef | with_stmt | for_stmt)
if_stmt: 'if' namedexpr_test ':' suite ('elif' namedexpr_test ':' suite)* ['else' ':' suite]
while_stmt: 'while' namedexpr_test ':' suite ['else' ':' suite]
for_stmt: 'for' exprlist 'in' testlist ':' suite ['else' ':' suite]
try_stmt: ('try' ':' suite
 ((except_clause ':' suite)+
 ['else' ':' suite]
 ['finally' ':' suite] |
 'finally' ':' suite))
with_stmt: 'with' with_item (',' with_item)* ':' suite
with_item: test ['as' expr]
with_var: 'as' expr
NB compile.c makes sure that the default except clause is last
except_clause: 'except' [test [(',' | 'as') test]]
suite: simple_stmt | NEWLINE INDENT stmt+ DEDENT

Backward compatibility cruft to support:
[x for x in lambda: True, lambda: False if x()]
even while also allowing:
lambda x: 5 if x else 2
(But not a mix of the two)
testlist_safe: old_test [(',' old_test)+ [',']]
old_test: or_test | old_lambdef
old_lambdef: 'lambda' [vararglist] ':' old_test

namedexpr_test: test [':=' test]
test: or_test ['if' or_test 'else' test] | lambdef
or_test: and_test ('or' and_test)*
and_test: not_test ('and' not_test)*
not_test: 'not' not_test | comparison
comparison: expr (comp_op expr)*
comp_op: '<' '>' '==' '>=' '<=' '<>' '!=' 'in' 'not' 'in' 'is' 'is' 'not'
star_expr: '*' expr
expr: xor_expr ('|' xor_expr)*
xor_expr: and_expr ('^' and_expr)*
and_expr: shift_expr ('&' shift_expr)*
shift_expr: arith_expr (('<<' '>>') arith_expr)*
arith_expr: term (('+' '-') term)*

```

```

term: factor (('|'@'|'/'%'|'//') factor)*
factor: ('+'|'-'|'~') factor | power
power: [AWAIT] atom trailer* ['**' factor]
atom: ('(' [yield_expr|testlist_gexp] ')') |
 '[' [listmaker] ']' |
 '{' [dictsetmaker] '}' |
 '^' testlist1 '^' |
 NAME | NUMBER | STRING+ | '.' '.' '.'
listmaker: (namedexpr_test|star_expr) (old_comp_for | (' (namedexpr_test|star_expr))* [,'])
testlist_gexp: (namedexpr_test|star_expr) (old_comp_for | (' (namedexpr_test|star_expr))* [,'])
lambdef: 'lambda' [vararglist] ':' test
trailer: (' [arglist] ') | '[' subscriptlist ']' | '.' NAME
subscriptlist: subscript (' subscript)* [,']
subscript: test | [test] ':' [test] [sliceop]
sliceop: ':' [test]
exprlist: (expr|star_expr) (' (expr|star_expr))* [,']
testlist: test (' test)* [,']
dictsetmaker: (((test ':' test | '**' expr)
 (comp_for | (' (test ':' test | '**' expr))* [,']))) |
 ((test | star_expr)
 (comp_for | (' (test | star_expr))* [,'])))

classdef: 'class' NAME ['(' [arglist] ')'] ':' suite

arglist: argument (' argument)* [,']

"test '=' test" is really "keyword '=' test", but we have no such token.
These need to be in a single rule to avoid grammar that is ambiguous
to our LL(1) parser. Even though 'test' includes '*expr' in star_expr,
we explicitly match '*' here, too, to give it proper precedence.
Illegal combinations and orderings are blocked in ast.c:
multiple (test comp_for) arguments are blocked; keyword unpackings
that precede iterable unpackings are blocked; etc.
argument: (test [comp_for] |
 test ':=' test |
 test '=' test |
 '**' test |
 '*' test)

comp_iter: comp_for | comp_if
comp_for: [ASYNC] 'for' exprlist 'in' or_test [comp_iter]
comp_if: 'if' old_test [comp_iter]

As noted above, testlist_safe extends the syntax allowed in list
comprehensions and generators. We can't use it indiscriminately in all
derivations using a comp_for-like pattern because the testlist_safe derivation
contains comma which clashes with trailing comma in arglist.
#

```

```

This was an issue because the parser would not follow the correct derivation
when parsing syntactically valid Python code. Since testlist_safe was created
specifically to handle list comprehensions and generator expressions enclosed
with parentheses, it's safe to only use it in those. That avoids the issue; we
can parse code like set(x for x in [],).
#
The syntax supported by this set of rules is not a valid Python 3 syntax,
hence the prefix "old".
#
See https://bugs.python.org/issue27494
old_comp_iter: old_comp_for | old_comp_if
old_comp_for: [ASYNC] 'for' exprlist 'in' testlist_safe [old_comp_iter]
old_comp_if: 'if' old_test [old_comp_iter]

testlist1: test (',' test)*

not used in grammar, but may appear in "node" passed from Parser to Compiler
encoding_decl: NAME

yield_expr: 'yield' [yield_arg]
yield_arg: 'from' test | testlist_star_expr
Empty configuration file; used in tests to avoid interference from Black's own config.
black-primer

`black-primer` is a tool built for CI (and humans) to have _Black_`--check` a number of
(configured in `primer.json`) Git accessible projects in parallel. _(A PR will be
accepted to add Mercurial support.)_

Run flow

- Ensure we have a `black` + `git` in PATH
- Load projects from `primer.json`
- Run projects in parallel with `--worker` workers (defaults to CPU count / 2)
- Checkout projects
- Run black and record result
- Clean up repository checkout _(can optionally be disabled via `--keep`)_
- Display results summary to screen
- Default to cleaning up `--work-dir` (which defaults to tempfile schemantics)
- Return
- 0 for successful run
- < 0 for environment / internal error
- > 0 for each project with an error

Speed up runs

If you're running locally yourself to test black on lots of code try:

- Using `-k` / `--keep` + `-w` / `--work-dir` so you don't have to re-checkout the repo

```

each run

```
CLI arguments
```

```
```text
```

```
Usage: black-primer [OPTIONS]
```

```
primer - prime projects for blackening...
```

```
Options:
```

```
-c, --config PATH    JSON config file path [default: /Users/cooper/repos/  
                    black/src/black_primer/primer.json]
```

```
--debug             Turn on debug logging [default: False]
```

```
-k, --keep          Keep workdir + repos post run [default: False]
```

```
-L, --long-checkouts Pull big projects to test [default: False]
```

```
-R, --rebase        Rebase project if already checked out [default:  
                    False]
```

```
-w, --workdir PATH  Directory path for repo checkouts [default: /var/fo  
                    lders/tc/hbwxh76j1hn6gqjd2n2sjn4j9k1glp/T/primer.20200  
                    517125229]
```

```
-W, --workers INTEGER Number of parallel worker coroutines [default: 2]
```

```
-h, --help          Show this message and exit.
```

```
```
```

```
Primer config file
```

The config file is in JSON format. Its main element is the `"projects"` dictionary and each parameter is explained below:

```
```json
```

```
{  
  "projects": {  
    "00_Example": {  
      "cli_arguments": "List of extra CLI arguments to pass Black for this project",  
      "expect_formatting_changes": "Boolean to indicate that the version of Black is expected to cause changes",  
      "git_clone_url": "URL you would pass `git clone` to check out this repo",  
      "long_checkout": "Boolean to have repo skipped by default unless `--long-checkouts` is specified",  
      "py_versions": "List of major Python versions to run this project with - all will do as you'd expect - run on ALL  
versions"  
    },  
    "aioexabgp": {  
      "cli_arguments": [],  
      "expect_formatting_changes": true,  
      "git_clone_url": "https://github.com/cooperlees/aioexabgp.git",  
      "long_checkout": false,  
    }  
  }  
}
```

```
"py_versions": ["all", "3.8"]
}
}
}
...

```

An example primer config file is used by Black
[here](https://github.com/psf/black/blob/master/src/black_primer/primer.json)

Example run

```
```console
cooper-mbp:black cooper$ ~/venvs/b/bin/black-primer
[2020-05-17 13:06:40,830] INFO: 4 projects to run Black over (lib.py:270)
[2020-05-17 13:06:44,215] INFO: Analyzing results (lib.py:285)
-- primer results --

```

```
3 / 4 succeeded (75.0%)
1 / 4 FAILED (25.0%)
- 0 projects disabled by config
- 0 projects skipped due to Python version
- 0 skipped due to long checkout

```

Failed projects:

```
flake8-bugbear:
- Returned 1
- stdout:
--- tests/b303_b304.py 2020-05-17 20:04:09.991227 +0000
+++ tests/b303_b304.py 2020-05-17 20:06:42.753851 +0000
@@ -26,11 +26,11 @@
 maxint = 5 # this is okay
 # the following should not crash
 (a, b, c) = list(range(3))
 # it is different than this
 a, b, c = list(range(3))
- a, b, c, = list(range(3))
+ a, b, c = list(range(3))
 # and different than this
 (a, b), c = list(range(3))
 a, *b, c = [1, 2, 3, 4, 5]
 b[1:3] = [0, 0]

```

would reformat tests/b303\_b304.py

Oh no!

1 file would be reformatted, 22 files would be left unchanged.

```
```

```

Example configuration for Black.

NOTE: you have to use single-quoted strings in TOML for regular expressions.
It's the equivalent of r-strings in Python. Multiline strings are treated as
verbose regular expressions by Black. Use [] to denote a significant space
character.

```
[tool.black]
line-length = 88
target-version = ['py36', 'py37', 'py38']
include = '\.pyi?$'
exclude = ""
```

```
/(
  \.eggs
  | \.git
  | \.hg
  | \.mypy_cache
  | \.tox
  | \.venv
  | _build
  | buck-out
  | build
  | dist
```

The following are specific to Black, you probably don't want those.

```
| blib2to3
| tests/data
| profiling
)/
""
```

Build system information below.

NOTE: You don't need this in your own Black configuration.

```
[build-system]
requires = ["setuptools>=41.0", "setuptools-scm", "wheel"]
build-backend = "setuptools.build_meta"
[//]: # "NOTE: THIS FILE WAS AUTOGENERATED FROM README.md"
```

Version control integration

Use [pre-commit](https://pre-commit.com/). Once you
[have it installed](https://pre-commit.com/#install), add this to the
`.pre-commit-config.yaml` in your repository:

```
```yaml
repos:
```



```
- repo: https://github.com/psf/black
 rev: 19.10b0 # Replace by any tag/version: https://github.com/psf/black/tags
 hooks:
 - id: black
 language_version: python3 # Should be a command that runs python3.6+
 ...
```

Then run ``pre-commit install`` and you're ready to go.

Avoid using ``args`` in the hook. Instead, store necessary configuration in ``pyproject.toml`` so that editors and command-line usage of Black all behave consistently for your project. See `_Black_`s` own `[pyproject.toml]`(<https://github.com/psf/black/blob/master/pyproject.toml>) for an example.

If you're already using Python 3.7, switch the ``language_version`` accordingly. Finally, ``stable`` is a branch that tracks the latest release on PyPI. If you'd rather run on master, this is also an option.

```
[report]
omit =
 src/blib2to3/*
 tests/data/*
 /site-packages/
Black compatible configurations
```

All of Black's changes are harmless (or at least, they should be), but a few do conflict against other tools. It is not uncommon to be using other tools alongside `_Black_`` like linters and type checkers. Some of them need a bit of tweaking to resolve the conflicts. Listed below are `_Black_`` compatible configurations in various formats for the common tools out there.

**\*\*Please note\*\*** that `_Black_`` only supports the TOML file format for its configuration (e.g. ``pyproject.toml``). The provided examples are to only configure their corresponding tools, using **\*\*their\*\*** supported file formats.

```
isort
```

`[isort]`(<https://pypi.org/p/isort/>) helps to sort and format imports in your Python code. `_Black_`` also formats imports, but in a different way from isort's defaults which leads to conflicting changes.

```
Configuration
```

```
...
```

```
multi_line_output = 3
include_trailing_comma = True
force_grid_wrap = 0
use_parentheses = True
```

```
ensure_newline_before_comments = True
line_length = 88
...
```

### Why those options above?

`_Black_` wraps imports that surpass ``line-length`` by moving identifiers into their own indented line. If that still doesn't fit the bill, it will put all of them in separate lines and put a trailing comma. A more detailed explanation of this behaviour can be [found here](<https://github.com/psf/black#how-black-wraps-lines>).

isort's default mode of wrapping imports that extend past the ``line_length`` limit is "Grid".

```
```py3
from third_party import (lib1, lib2, lib3,
                        lib4, lib5, ...)
...
```

This style is incompatible with `_Black_`, but isort can be configured to use a different wrapping mode called "Vertical Hanging Indent" which looks like this:

```
```py3
from third_party import (
 lib1,
 lib2,
 lib3,
 lib4,
)
...
```

This style is `_Black_` compatible and can be achieved by ``multi-line-output = 3``. Also, as mentioned above, when wrapping long imports `_Black_` puts a trailing comma and uses parentheses. isort should follow the same behaviour and passing the options ``include_trailing_comma = True`` and ``use_parentheses = True`` configures that.

The option ``force_grid_wrap = 0`` is just to tell isort to only wrap imports that surpass the ``line_length`` limit.

Finally, isort should be told to wrap imports when they surpass `_Black_'s` default limit of 88 characters via ``line_length = 88`` as well as ``ensure_newline_before_comments = True`` to ensure spacing import sections with comments works the same as with `_Black_`.

**\*\*Please note\*\*** ``ensure_newline_before_comments = True`` only works since isort `>= 5` but does not break older versions so you can keep it if you are running previous versions.

If only isort `>= 5` is used you can add ``profile = black`` instead of all the options since [profiles](<https://timothycrosley.github.io/isort/docs/configuration/profiles/>)

are available and do the configuring for you.

### ### Formats

<details>

<summary>.isort.cfg</summary>

```
```cfg
[settings]
multi_line_output = 3
include_trailing_comma = True
force_grid_wrap = 0
use_parentheses = True
ensure_newline_before_comments = True
line_length = 88
```
```

</details>

<details>

<summary>setup.cfg</summary>

```
```cfg
[isort]
multi_line_output = 3
include_trailing_comma = True
force_grid_wrap = 0
use_parentheses = True
ensure_newline_before_comments = True
line_length = 88
```
```

</details>

<details>

<summary>pyproject.toml</summary>

```
```toml
[tool.isort]
multi_line_output = 3
include_trailing_comma = true
force_grid_wrap = 0
use_parentheses = true
ensure_newline_before_comments = true
line_length = 88
```
```

</details>

```
<details>
<summary>.editorconfig</summary>
```

```
```.ini
[* .py]
multi_line_output = 3
include_trailing_comma = True
force_grid_wrap = 0
use_parentheses = True
ensure_newline_before_comments = True
line_length = 88
````
```

```
</details>
```

```
Flake8
```

[Flake8](<https://pypi.org/p/flake8/>) is a code linter. It warns you of syntax errors, possible bugs, stylistic errors, etc. For the most part, Flake8 follows [PEP 8](<https://www.python.org/dev/peps/pep-0008/>) when warning about stylistic errors. There are a few deviations that cause incompatibilities with `_Black_`.

```
Configuration
```

```
```.ini
max-line-length = 88
extend-ignore = E203, W503
````
```

```
Why those options above?
```

When breaking a line, `_Black_` will break it before a binary operator. This is compliant with PEP 8, but this behaviour will cause flake8 to raise ``W503 line break before binary operator`` warnings.

In some cases, as determined by PEP 8, `_Black_` will enforce an equal amount of whitespace around slice operators. Due to this, Flake8 will raise ``E203 whitespace before ':'`` warnings.

Since both of these warnings are not PEP 8 compliant, Flake8 should be configured to ignore these warnings via ``extend-ignore = E203, W503``.

Also, as like with `isort`, flake8 should be configured to allow lines up to the length limit of ``88``, `_Black_'s` default. This explains ``max-line-length = 88``.

```
Formats
```

```
<details>
<summary>.flake8</summary>
```

```
```ini
[flake8]
max-line-length = 88
extend-ignore = E203, W503
```
```

```
</details>
```

```
<details>
<summary>setup.cfg</summary>
```

```
```cfg
[flake8]
max-line-length = 88
extend-ignore = E203, W503
```
```

```
</details>
```

```
<details>
<summary>tox.ini</summary>
```

```
```ini
[flake8]
max-line-length = 88
extend-ignore = E203, W503
```
```

```
</details>
```

```
Pylint
```

[Pylint](<https://pypi.org/p/pylint/>) is also a code linter like Flake8. It has the same checks as flake8 and more. In particular, it has more formatting checks regarding style conventions like variable naming. With so many checks, Pylint is bound to have some mixed feelings about `_Black_'s` formatting style.

```
Configuration
```

```
```
disable = C0330, C0326
max-line-length = 88
```
```

```
Why those options above?
```

When `_Black_` is folding very long expressions, the closing brackets will [be dedented](https://github.com/psf/black#how-black-wraps-lines).

```
```py3
ImportantClass.important_method(
    exc, limit, lookup_lines, capture_locals, callback
)
```
```

Although, this style is PEP 8 compliant, Pylint will raise ``C0330: Wrong hanging indentation before block (add 4 spaces)`` warnings. Since `_Black_` isn't configurable on this style, Pylint should be told to ignore these warnings via ``disable = C0330``.

Also, since `_Black_` deals with whitespace around operators and brackets, Pylint's warning ``C0326: Bad whitespace`` should be disabled using ``disable = C0326``.

And as usual, Pylint should be configured to only complain about lines that surpass ``88`` characters via ``max-line-length = 88``.

### Formats

```
<details>
<summary>pylintrc</summary>
```

```
```ini
[MESSAGES CONTROL]
disable = C0330, C0326
```

```
[format]
max-line-length = 88
```
```

```
</details>
```

```
<details>
<summary>setup.cfg</summary>
```

```
```cfg
[pylint]
max-line-length = 88

[pylint.messages_control]
disable = C0330, C0326
```
```

```
</details>
```

```

<details>
<summary>pyproject.toml</summary>

```toml
[tool.pylint.messages_control]
disable = "C0330, C0326"

[tool.pylint.format]
max-line-length = "88"
...

</details>
# Copyright 2006 Google, Inc. All Rights Reserved.
# Licensed to PSF under a Contributor Agreement.

# A grammar to describe tree matching patterns.
# Not shown here:
# - 'TOKEN' stands for any token (leaf node)
# - 'any' stands for any node (leaf or interior)
# With 'any' we can still specify the sub-structure.

# The start symbol is 'Matcher'.

Matcher: Alternatives ENDMARKER

Alternatives: Alternative (' Alternative)*

Alternative: (Unit | NegatedUnit)+

Unit: [NAME '=' ( STRING [Repeater]
      | NAME [Details] [Repeater]
      | '(' Alternatives ')' [Repeater]
      | '[' Alternatives ']'
      )

NegatedUnit: 'not' (STRING | NAME [Details] | '(' Alternatives ')')

Repeater: '*' | '+' | '{' NUMBER [',' NUMBER] '}'

Details: '<' Alternatives '>'

```

1.372 opentelemetry-test-utils 0.27b0

1.372.1 Available under license :

No license file was found, but licenses were detected in source scan.

Metadata-Version: 2.1

Name: opentelemetry-test-utils

Version: 0.27b0

Summary: Test utilities for OpenTelemetry unit tests

Home-page: <https://github.com/open-telemetry/opentelemetry-python/tests/opentelemetry-test-utils>

Author: OpenTelemetry Authors

Author-email: cncf-opentelemetry-contributors@lists.cncf.io

License: Apache-2.0

Platform: any

Classifier: Development Status :: 4 - Beta

Classifier: Intended Audience :: Developers

Classifier: License :: OSI Approved :: Apache Software License

Classifier: Programming Language :: Python

Classifier: Programming Language :: Python :: 3

Classifier: Programming Language :: Python :: 3.6

Classifier: Programming Language :: Python :: 3.7

Classifier: Programming Language :: Python :: 3.8

Classifier: Programming Language :: Python :: 3.9

Classifier: Programming Language :: Python :: 3.10

Requires-Python: >=3.6

Provides-Extra: test

UNKNOWN

Found in path(s):

* /opt/cola/permits/1664026861_1683224935.6026967/0/opentelemetry-test-utils-0-27b0-tar-gz/opentelemetry-test-utils-0.27b0/src/opentelemetry_test_utils.egg-info/PKG-INFO

* /opt/cola/permits/1664026861_1683224935.6026967/0/opentelemetry-test-utils-0-27b0-tar-gz/opentelemetry-test-utils-0.27b0/PKG-INFO

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* /opt/cola/permits/1664026861_1683224935.6026967/0/opentelemetry-test-utils-0-27b0-tar-gz/opentelemetry-test-utils-0.27b0/src/opentelemetry/test/globals_test.py

* /opt/cola/permits/1664026861_1683224935.6026967/0/opentelemetry-test-utils-0-27b0-tar-gz/opentelemetry-test-utils-0.27b0/src/opentelemetry/test/mock_textmap.py

* /opt/cola/permits/1664026861_1683224935.6026967/0/opentelemetry-test-utils-0-27b0-tar-gz/opentelemetry-test-


```
utils-0.27b0/src/opentelemetry/test/httpstest.py
* /opt/cola/permits/1664026861_1683224935.6026967/0/opentelemetry-test-utils-0-27b0-tar-gz/opentelemetry-test-
utils-0.27b0/src/opentelemetry/test/spantestutil.py
* /opt/cola/permits/1664026861_1683224935.6026967/0/opentelemetry-test-utils-0-27b0-tar-gz/opentelemetry-test-
utils-0.27b0/src/opentelemetry/test/wsgitestutil.py
* /opt/cola/permits/1664026861_1683224935.6026967/0/opentelemetry-test-utils-0-27b0-tar-gz/opentelemetry-test-
utils-0.27b0/src/opentelemetry/test/test_base.py
* /opt/cola/permits/1664026861_1683224935.6026967/0/opentelemetry-test-utils-0-27b0-tar-gz/opentelemetry-test-
utils-0.27b0/src/opentelemetry/test/concurrency_test.py
* /opt/cola/permits/1664026861_1683224935.6026967/0/opentelemetry-test-utils-0-27b0-tar-gz/opentelemetry-test-
utils-0.27b0/src/opentelemetry/test/asgitestutil.py
```

1.373 decorator 4.3.0

1.373.1 Available under license :

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1.374 opentelemetry_exporter_zipkin_json

1.1.0

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1.375 clipboard 1.7.1

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1.376 acorn-globals 6.0.0

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1.377 @emotion/styled 10.3.0

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1.378 grpcio 1.25.0

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1.379 pycparser 2.21

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pycparser -- A C parser in Python

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1.380 googleapis-common-protos 1.58.0

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1.381 opentelemetry-instrumentation- botocore 0.27b0

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1.384 yarl 1.8.2

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1.387 oauth2-client 4.1.3

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1.388 pycodestyle 2.8.0

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1.389 moto 1.3.14

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1.390 postcss-font-variant 5.0.0

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1.392 postcss-preset-env 7.8.2

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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see <http://www.cwi.nl>) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see <http://www.cnri.reston.va.us>) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see <http://www.zope.com>). In 2001, the Python Software Foundation (PSF, see <http://www.python.org/psf/>) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

All Python releases are Open Source (see <http://www.opensource.org> for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

Release	Derived from	Year	Owner	GPL-compatible? (1)
0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2 and above	2.1.1	2001-now	PSF	yes

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1.406 phonenumber 8.12.47

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1.407 strip-final-newline 2.0.0

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1.408 webauthn 1.5.2

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1.409 color-convert 2.0.1

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1.410 react 16.9.0

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1.411 symbol-observable 1.2.0

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1.412 dom-walk 0.1.2

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1.413 boto 2.49.0

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1.414 mobx 6.5.0

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1.415 read-pkg-up 1.0.1

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1.416 history 4.7.2

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1.417 @storybook/theming 6.3.11

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1.418 saxes 5.0.1

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1.419 tornado 6.1

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1.422 postcss-pseudo-class-any-link 7.1.6

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1.423 jquery 3.6.4

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1.424 rsa 4.8

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1.425 @amplitude/analytics-client-common

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1.426 incremental 17.5.0

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1.427 importlib-metadata 6.3.0

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1.428 @csstools/postcss-hwb-function 1.0.2

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1.430 python-requests 2.25.0

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1.431 idna 2.6

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```
* /opt/cola/permits/1664026588_1683572194.9399617/0/kjd-idna-v2-6-0-g9f428fa-1-tar-gz/kjd-idna-7bf193e/LICENSE.rst
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"""

A library to support the Internationalised Domain Names in Applications (IDNA) protocol as specified in RFC 5890 et.al. This new methodology, known as IDNA 2008, can generate materially different results to the previous standard. The library can act as a drop-in replacement for the "encodings.idna" module.

"""

```
import io, sys
from setuptools import setup
```

```
def main():
```

```
    python_version = sys.version_info[:2]
    if python_version < (2,6):
        raise SystemExit("Sorry, Python 2.6 or newer required")
```

```
    package_data = {}
    exec(open('idna/package_data.py').read(), package_data)
```

```
    arguments = {
        'name': 'idna',
        'packages': ['idna'],
        'version': package_data['__version__'],
        'description': 'Internationalized Domain Names in Applications (IDNA)',
        'long_description': io.open("README.rst", encoding="UTF-8").read(),
        'author': 'Kim Davies',
```

```

'author_email': 'kim@cynosure.com.au',
'license': 'BSD-like',
'url': 'https://github.com/kjd/idna',
'classifiers': [
    'Development Status :: 5 - Production/Stable',
    'Intended Audience :: Developers',
    'Intended Audience :: System Administrators',
    'License :: OSI Approved :: BSD License',
    'Operating System :: OS Independent',
    'Programming Language :: Python',
    'Programming Language :: Python :: 2.6',
    'Programming Language :: Python :: 2.7',
    'Programming Language :: Python :: 3',
    'Programming Language :: Python :: 3.3',
    'Programming Language :: Python :: 3.4',
    'Programming Language :: Python :: 3.5',
    'Programming Language :: Python :: 3.6',
    'Topic :: Internet :: Name Service (DNS)',
    'Topic :: Software Development :: Libraries :: Python Modules',
    'Topic :: Utilities',
],
'test_suite': 'tests',
}

setup(**arguments)

if __name__ == '__main__':
    main()

Found in path(s):
* /opt/cola/permits/1664026588_1683572194.9399617/0/kjd-idna-v2-6-0-g9f428fa-1-tar-gz/kjd-idna-7bf193e/setup.py

```

1.432 python3-asn1crypto 0.24.0

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1.433 pluggy 0.13.1

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1.434 backbone 1.3.3

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1.435 human-signals 2.1.0

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1.436 delegate 3.2.0

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```
# delegate
```

Lightweight event delegation.

```
## Install
```

You can get it on npm.

```
---
```

```
npm install delegate --save
```

```
---
```

If you're not into package management, just [download a ZIP](<https://github.com/zenorocha/delegate/archive/master.zip>) file.

Setup

Node (Browserify)

```
```js
var delegate = require('delegate');
```
```

Browser (Standalone)

```
```html
<script src="dist/delegate.js"></script>
```
```

Usage

Add event delegation

With the default base (`document`)

```
```js
delegate('.btn', 'click', function(e) {
 console.log(e.delegateTarget);
}, false);
```
```

With an element as base

```
```js
delegate(document.body, '.btn', 'click', function(e) {
 console.log(e.delegateTarget);
}, false);
```
```

With a selector (of existing elements) as base

```
```js
delegate('.container', '.btn', 'click', function(e) {
 console.log(e.delegateTarget);
}, false);
```
```

With an array/array-like of elements as base

```
```js
delegate(document.querySelectorAll('.container'), '.btn', 'click', function(e) {
 console.log(e.delegateTarget);
});
```
```

```
}, false);  
```
```

### Remove event delegation

#### With a single base element (default or specified)

```
```js  
var delegation = delegate(document.body, '.btn', 'click', function(e) {  
  console.log(e.delegateTarget);  
}, false);
```

```
delegation.destroy();  
```
```







#### With multiple elements (via selector or array)

Note: selectors are always treated as multiple elements, even if one or none are matched. `delegate()` will return an array.

```
```js  
var delegations = delegate('.container', '.btn', 'click', function(e) {  
  console.log(e.delegateTarget);  
}, false);
```

```
delegations.forEach(function (delegation) {  
  delegation.destroy();  
});  
```
```

## Browser Support

|  |  |  |  |  |   
|:---:|:---:|:---:|:---:|:---:|:---:|  
| Latest | Latest | Latest | 9+ | Latest | Latest |

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\* /opt/cola/permits/1664028144\_1683228293.6221538/0/zenorocha-delegate-v3-2-0-0-g1fe374c-1-tar-gz/zenorocha-delegate-4dff719/readme.md

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```
* /opt/cola/permits/1664026587_1683224653.4945595/0/kjd-idna-v2-8-0-g1cdf175-1-tar-gz/kjd-idna-375dc46/LICENSE.rst
```

No license file was found, but licenses were detected in source scan.

```
"""
```

A library to support the Internationalised Domain Names in Applications (IDNA) protocol as specified in RFC 5890 et.al. This new methodology, known as IDNA 2008, can generate materially different results to the previous standard. The library can act as a drop-in replacement for the "encodings.idna" module.

```
"""
```

```
import io, sys
```

```
from setuptools import setup
```

```
def main():
```

```
 python_version = sys.version_info[:2]
```

```
 if python_version < (2,7):
```

```
 raise SystemExit("Sorry, Python 2.7 or newer required")
```

```
 package_data = { }
```

```
 exec(open('idna/package_data.py').read(), package_data)
```

```
 arguments = {
```

```
 'name': 'idna',
```

```
 'packages': ['idna'],
```

```
 'version': package_data['__version__'],
```

```
 'description': 'Internationalized Domain Names in Applications (IDNA)',
```

```
 'long_description': io.open("README.rst", encoding="UTF-8").read(),
```

```
 'author': 'Kim Davies',
```

```
 'author_email': 'kim@cynosure.com.au',
```

```
 'license': 'BSD-like',
```

```
 'url': 'https://github.com/kjd/idna',
```

```
 'classifiers': [
```

```
 'Development Status :: 5 - Production/Stable',
```

```
 'Intended Audience :: Developers',
```

```
 'Intended Audience :: System Administrators',
```

```
 'License :: OSI Approved :: BSD License',
```

```
 'Operating System :: OS Independent',
```

```
 'Programming Language :: Python',
```

```
 'Programming Language :: Python :: 2',
```

```
 'Programming Language :: Python :: 2.7',
```

```
 'Programming Language :: Python :: 3',
```

```

'Programming Language :: Python :: 3.4',
'Programming Language :: Python :: 3.5',
'Programming Language :: Python :: 3.6',
'Topic :: Internet :: Name Service (DNS)',
'Topic :: Software Development :: Libraries :: Python Modules',
'Topic :: Utilities',
],
'python_requires': '>=2.7, !=3.0.*, !=3.1.*, !=3.2.*, !=3.3.*',
'test_suite': 'tests',
}

setup(**arguments)

if __name__ == '__main__':
 main()

Found in path(s):
* /opt/cola/permits/1664026587_1683224653.4945595/0/kjd-idna-v2-8-0-g1cdf175-1-tar-gz/kjd-idna-375dc46/setup.py

```

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## 1.447 date-time 4.3

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# 1.454 react-dom 18.1.0

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# 1.455 semantic\_version 2.8.5

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# 1.456 meow 3.7.0

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# 1.457 python-setuptools 65.5.0

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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see <http://www.cwi.nl>) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see <http://www.cnri.reston.va.us>) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see <http://www.zope.com>). In 2001, the Python Software Foundation (PSF, see <http://www.python.org/psf/>) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

All Python releases are Open Source (see <http://www.opensource.org> for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

| Release        | Derived from | Year      | Owner      | GPL-compatible? (1) |
|----------------|--------------|-----------|------------|---------------------|
| 0.9.0 thru 1.2 |              | 1991-1995 | CWI        | yes                 |
| 1.3 thru 1.5.2 | 1.2          | 1995-1999 | CNRI       | yes                 |
| 1.6            | 1.5.2        | 2000      | CNRI       | no                  |
| 2.0            | 1.6          | 2000      | BeOpen.com | no                  |
| 1.6.1          | 1.6          | 2001      | CNRI       | yes (2)             |
| 2.1            | 2.0+1.6.1    | 2001      | PSF        | no                  |
| 2.0.1          | 2.0+1.6.1    | 2001      | PSF        | yes                 |
| 2.1.1          | 2.1+2.0.1    | 2001      | PSF        | yes                 |

|               |       |          |     |     |
|---------------|-------|----------|-----|-----|
| 2.1.2         | 2.1.1 | 2002     | PSF | yes |
| 2.1.3         | 2.1.2 | 2002     | PSF | yes |
| 2.2 and above | 2.1.1 | 2001-now | PSF | yes |

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```

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`fastjsonschema`

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`validate-pyproject`

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## 1.492 type-fest 1.3.0

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# 1.493 python-lxml 4.5.0

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# 1.506 python-setuptools 57.0.0

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## 1.509 @storybook/components 6.3.11

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# 1.510 python-lxml 4.8.0

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.. \_contrib:

```
=====
click-contrib
=====
```

As the userbase of Click grows, more and more major feature requests pop up in Click's bugtracker. As reasonable as it may be for those features to be bundled with Click instead of being a standalone project, many of those requested features are either highly experimental or have unproven practical use, while potentially being a burden to maintain.

This is why `click-contrib_` exists. The GitHub organization is a collection of possibly experimental third-party packages whose featureset does not belong into Click, but also a playground for major features that may be added to Click in the future. It is also meant to coordinate and concentrate effort on writing third-party extensions for Click, and to ease the effort of searching for such extensions. In that sense it could be described as a low-maintenance alternative to extension repositories of other frameworks.

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\* Guillaume Peillex: committer

\* ukasz Rogalski: committer.

\* Roy Williams (Lyft): committer

added check for implementing `__eq__` without implementing `__hash__`,

Added Python 3 check for accessing `Exception.message`.

Added Python 3 check for calling `encode/decode` with invalid codecs.

Added Python 3 check for accessing `sys.maxint`.

Added Python 3 check for bad import statements.

Added Python 3 check for accessing deprecated methods on the 'string' module,  
various patches.

\* Dmitry Pribysh: committer

multiple-imports, not-iterable, not-a-mapping, various patches.

\* Jim Robertson: committer

Ex-maintainers:

\* Sylvain Thenault (Logilab): main author / maintainer

\* Torsten Marek (Google): committer / contributor

We would not be here without folks that contributed patches, pull requests,  
issues and their time to pylint. We're incredibly grateful to all of these  
contributors:

\* Daniel Balparda (Google): GPyLint maintainer (Google's pylint variant),  
various patches

\* Martin Pool (Google): warnings for anomalous backslashes, symbolic names for  
messages (like 'unused'), etc

\* Alexandre Fayolle (Logilab): TkInter gui, documentation, debian support

\* Julien Cristau, Emile Anclin (Logilab): python 3 support

\* Sandro Tosi: Debian packaging

\* Mads Kiilerich, Boris Feld, Bill Wendling, Sebastian Ulrich:  
various patches

- \* Brian van den Broek: windows installation documentation
- \* Amaury Forgeot d'Arc: check names imported from a module exists in the module
- \* Benjamin Niemann: allow block level enabling/disabling of messages
- \* Nathaniel Manista: suspicious lambda checking
- \* David Shea: invalid sequence and slice index
- \* Carl Crowder: don't evaluate the value of arguments for 'dangerous-default-value'
- \* Michal Nowikowski: wrong-spelling-in-comment, wrong-spelling-in-docstring, parallel execution on multiple CPUs and other patches.
- \* David Lindquist: logging-format-interpolation warning.
- \* Brett Cannon: Port source code to be Python 2/3 compatible, Python 3 checker.
- \* Vlad Temian: redundant-unittest-assert and the JSON reporter.
- \* Cosmin Poian: unichr-builtin and improvements to bad-open-mode.
- \* Viorel tirbu: intern-builtin warning.
- \* Dan Goldsmith: support for msg-template in HTML reporter.
- \* Chris Rebert: unidiomatic-typecheck.
- \* Steven Myint: duplicate-except.
- \* Radu Ciorba: not-context-manager and confusing-with-statement warnings.
- \* Bruno Daniel: check\_docs extension.
- \* James Morgensen: ignored-modules option applies to import errors.
- \* Cezar Elnazli: deprecated-method
- \* Stphane Wirtel: nonlocal-without-binding
- \* Laura Medioni (Logilab, on behalf of the CNES): misplaced-comparison-constant, no-classmethod-decorator, no-staticmethod-decorator, too-many-nested-blocks, too-many-boolean-expressions, unneeded-not, wrong-import-order, ungrouped-imports, wrong-import-position, redefined-variable-type
- \* Aru Sahni: Git ignoring, regex-based ignores

- \* Mike Frysinger: contributor.
  
- \* Moiss Lpez (Vauxoo): Support for deprecated-modules in modules not installed,  
Refactor wrong-import-order to integrate it with `isort` library  
Add check too-complex with mccabe for cyclomatic complexity  
Refactor wrong-import-position to skip try-import and nested cases  
Add consider-merging-isinstance, superfluous-else-return  
Fix consider-using-ternary for 'True and True and True or True' case
  
- \* Luis Escobar (Vauxoo), Moiss Lpez (Vauxoo): Add bad-docstring-quotes and docstring-first-line-empty
  
- \* Yannick Brehon: contributor.
  
- \* Glenn Matthews: autogenerated documentation for optional extensions,  
bug fixes and enhancements for docparams (ne check\_docs) extension
  
- \* Elias Dorneles: minor adjust to config defaults and docs
  
- \* Yuri Bochkarev: Added epytext support to docparams extension.
  
- \* Alexander Todorov: added new error conditions to 'bad-super-call',  
Added new check for incorrect len(SEQUENCE) usage,  
Added new extension for comparison against empty string constants,  
Added new extension which detects comparing integers to zero,  
Added new useless-return checker,  
Added new try-except-raise checker
  
- \* Erik Eriksson - Added overlapping-except error check.
  
- \* Anthony Foglia (Google): Added simple string slots check.
  
- \* Derek Gustafson: contributor
  
- \* Petr Pulc: require whitespace around annotations
  
- \* John Paraskevopoulos: add 'differing-param-doc' and 'differing-type-doc'
  
- \* Martin von Gagern (Google): Added 'raising-format-tuple' warning.
  
- \* Ahirnish Pareek, 'keyword-arg-before-var-arg' check
  
- \* Daniel Miller: contributor.
  
- \* Bryce Quinta: contributor
  
- \* Martin Bati: contributor  
Added new check for shallow copy of os.environ

- \* Jacques Kvam: contributor
- \* Brian Shaginaw: prevent error on exception check for functions
- \* Ioana Tagirta: fix bad thread instantiation check
- \* Reverb Chu: contributor
- \* Tobias Hernstig: contributor
- \* Konstantin Manna: contributor
- \* Andreas Freimuth: fix indentation checking with tabs
- \* Renat Galimov: contributor
- \* Thomas Snowden: fix missing-docstring for inner functions
- \* Mitchell Young: minor adjustment to docparams
- \* Marianna Polatoglou: minor contribution for wildcard import check
- \* Ben Green: contributor
- \* Benjamin Freeman: contributor
- \* Fureigh: contributor
- \* Jace Browning: updated default report format with clickable paths
- \* Sushobhit (sushobhit27): contributor
  - Added new check 'comparison-with-itself'.
  - Added new check 'useless-import-alias'.
  - Added support of annotations in missing-type-doc and missing-return-type-doc.
  - Added new check 'comparison-with-callable'.
  - Removed six package dependency.
  - Added new check 'chained-comparison'.
  - Added new check 'useless-object-inheritance'.
- \* Mariatta Wijaya: contributor
  - Added new check `logging-fstring-interpolation`
  - Documentation typo fixes
- \* Jason Owen: contributor
- \* Mark Roman Miller: fix inline defs in too-many-statements

- \* Adam Dangoor: contributor
- \* Gary Tyler McLeod: contributor
- \* Wolfgang Grafen, Axel Muller, Fabio Zadrozny, Pierre Rouleau, Maarten ter Huurne, Mirko Friedenhagen and all the Logilab's team (among others).
- \* Matej Marusak: contributor
- \* Nick Drozd: contributor, performance improvements to astroid
- \* Kosarchuk Sergey: contributor
- \* Carey Metcalfe: demoted `try-except-raise` from error to warning
- \* Marcus Nslund (naslundx): contributor
- \* Natalie Serebryakova: contributor
- \* Caio Carrara: contributor
- \* Roberto Leinardi: PyCharm plugin maintainer
- \* Aivar Annamaa: contributor
- \* Hornwitser: fix import graph
- \* Yuri Gribov: contributor
- \* Drew Risinger: committer (docs)
- \* Ben James
- \* Tomer Chachamu, Richard Goodman: simplifiable-if-expression
- \* Alan Chan: contributor
- \* Benjamin Drung: contributing Debian Developer
- \* Scott Worley: contributor
- \* Michael Hudson-Doyle
- \* Lucas Cimon: contributor
- \* Mike Miller: contributor
- \* Sergei Lebedev: contributor

- \* Sasha Bagan
- \* Pablo Galindo Salgado: contributor  
Fix false positive 'Non-iterable value' with async comprehensions.
- \* Matus Valo
- \* Sardorbek Imomaliev: contributor
- \* Justin Li (justinnhli)
- \* Nicolas Dickreuter
- \* Pascal Corpet
- \* Svetoslav Neykov: contributor
- \* Federico Bond: contributor
- \* Fantix King (UChicago): contributor
- \* Yory (yory8): contributor
- \* Thomas Hisch: contributor
- \* Clment Pit-Claudel : contributor
- \* Goudcode: contributor
- \* Paul Renvoise : contributor
- \* Bluesheeptoken: contributor
- \* Michael Scott Cuthbert: contributor
- \* Pierre Sassoulas : contributor
  - Made C0412 (ungrouped import) compatible with isort
  - Made multiple message with the same old name possible
  - Made Pylint a little faster by refactoring the message store
  - Broke down "missing-docstrings" between "module", "class" and "function"
- \* Nathan Marrow
- \* Taewon Kim : contributor
- \* Daniil Kharkov: contributor



- \* Tyler N. Thieding: contributor
- \* Zeb Nicholls: contributor
  - Made W9011 compatible with 'of' syntax in return types
- \* Martin Vielsmaier: contributor
- \* Agustin Toledo: contributor
- \* Nicholas Smith: contributor
- \* Peter Kolbus (Garmin): contributor
- \* Oisin Moran: contributor
- \* Andrzej Klajnert: contributor
- \* Andrs Prez Hortal: contributor
- \* Niko Wenselowski: contributor
- \* Danny Hermes: contributor
- \* Eric Froemling: contributor
- \* Robert Schweizer: contributor
- \* Hugo van Kemenade: contributor
- \* Mikhail Fesenko: contributor
- \* Trevor Bekolay: contributor
  - Added --list-msgs-enabled command
- \* Rmi Cardona: contributor
- \* Daniel Draper: contributor
- \* Gabriel R. Sezefredo: contributor
  - Fixed "exception-escape" false positive with generators
- \* laike9m: contributor
- \* Janne Rnkk: contributor
- \* Hugues Bruant: contributor
- \* Tim Gates: contributor

- \* Enji Cooper: contributor
- \* Bastien Vallet: contributor
- \* Pek Chhan: contributor
- \* Craig Henriques: contributor
- \* Matthijs Blom: contributor
- \* Andy Palmer: contributor
- \* Wes Turner (Google): added new check 'inconsistent-quotes'
- \* Athos Ribeiro  
Fixed dict-keys-not-iterating false positive for inverse containment checks
- \* Anubhav: contributor
- \* Ben Graham: contributor
- \* Anthony Tan: contributor
- \* Benny Miller: contributor
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# 1.531 python3-saml 1.9.0

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# 1.533 phonenumber 8.13.0

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# 1.534 cryptography 2.9.2

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# 1.535 typing-extensions 4.0.1

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### A. HISTORY OF THE SOFTWARE

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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see <http://www.cwi.nl>) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see <http://www.cnri.reston.va.us>) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see <http://www.zope.com>). In 2001, the Python Software Foundation (PSF, see <http://www.python.org/psf/>) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

All Python releases are Open Source (see <http://www.opensource.org> for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

| Release        | Derived from | Year      | Owner      | GPL-compatible? (1) |
|----------------|--------------|-----------|------------|---------------------|
| 0.9.0 thru 1.2 |              | 1991-1995 | CWI        | yes                 |
| 1.3 thru 1.5.2 | 1.2          | 1995-1999 | CNRI       | yes                 |
| 1.6            | 1.5.2        | 2000      | CNRI       | no                  |
| 2.0            | 1.6          | 2000      | BeOpen.com | no                  |
| 1.6.1          | 1.6          | 2001      | CNRI       | yes (2)             |
| 2.1            | 2.0+1.6.1    | 2001      | PSF        | no                  |
| 2.0.1          | 2.0+1.6.1    | 2001      | PSF        | yes                 |
| 2.1.1          | 2.1+2.0.1    | 2001      | PSF        | yes                 |
| 2.1.2          | 2.1.1        | 2002      | PSF        | yes                 |
| 2.1.3          | 2.1.2        | 2002      | PSF        | yes                 |
| 2.2 and above  | 2.1.1        | 2001-now  | PSF        | yes                 |

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## 1.536 websocket-client 0.56.0

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# 1.538 @storybook/core-events 6.3.11

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# 1.539 pyasn1-modules 0.2.8

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## 1.540 setprototypeof 1.2.0

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## 1.541 opentelemetry-exporter-zipkin-json

### 1.8.0

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## 1.542 botocore 1.17.27

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## 1.545 pytz 2019.2

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## 1.546 boto3 1.14.17

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## 1.548 scheduler 0.22.0

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## 1.549 stable 0.1.8

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\* /opt/cola/permits/1664028241\_1683224511.5341485/0/two-screen-stable-v0-1-8-0-g2d20475-1-tar-gz/Two-Screen-stable-b00d89b/README.md

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\* /opt/cola/permits/1664028241\_1683224511.5341485/0/two-screen-stable-v0-1-8-0-g2d20475-1-tar-gz/Two-Screen-stable-b00d89b/stable.js

\* /opt/cola/permits/1664028241\_1683224511.5341485/0/two-screen-stable-v0-1-8-0-g2d20475-1-tar-gz/Two-Screen-stable-b00d89b/src/banner.js

# 1.550 emotion-theming 10.3.0

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# 1.551 vinyl 0.3.2

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## 1.553 es6-promise 3.3.1

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```
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* @copyright Copyright (c) 2014 Yehuda Katz, Tom Dale, Stefan Penner and contributors (Conversion to ES6 API
by Jake Archibald)
* @license Licensed under MIT license
* See https://raw.githubusercontent.com/stefanpenner/es6-promise/master/LICENSE
* @version 3.3.1
*/
```

Found in path(s):

```
* /opt/cola/permits/1664026906_1683228533.7304344/0/components-es6-promise-v3-3-1-0-g38036cb-1-tar-
gz/components-es6-promise-38036cb/es6-promise.js
```

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```
{ "version": 3, "sources": ["config/versionTemplate.txt", "lib/es6-promise/utils.js", "lib/es6-promise/asap.js", "lib/es6-
promise/then.js", "lib/es6-promise/promise/resolve.js", "lib/es6-promise/-internal.js", "lib/es6-
promise/enumerator.js", "lib/es6-promise/promise/all.js", "lib/es6-promise/promise/race.js", "lib/es6-
promise/promise/reject.js", "lib/es6-promise/promise.js", "lib/es6-promise/polyfill.js", "lib/es6-
promise.js"], "sourcesContent": ["/*!\n * @overview es6-promise - a tiny implementation of Promises/A+.\n *
* @copyright Copyright (c) 2014 Yehuda Katz, Tom Dale, Stefan Penner and contributors (Conversion to ES6 API
by Jake Archibald)\n * @license Licensed under MIT license\n * See
https://raw.githubusercontent.com/stefanpenner/es6-promise/master/LICENSE\n * @version 3.3.1\n *\n", "use strict";\n\nexport { objectOrFunction };
export { isFunction };
export { isMaybeThenable };
\n\nfunction
objectOrFunction(x) {\n return typeof x === 'function' || typeof x === 'object' && x !== null;\n}\n\nfunction
isFunction(x) {\n return typeof x === 'function';\n}\n\nfunction isMaybeThenable(x) {\n return typeof x ===
'object' && x !== null;\n}\n\nvar _isArray = undefined;\nif (!Array.isArray) {\n _isArray = function (x) {\n return
Object.prototype.toString.call(x) === '[object Array]';\n };\n} else {\n _isArray = Array.isArray;\n}\n\nvar isArray
= _isArray;\n\nexport { isArray };
"use strict";
\n\nexport { setScheduler };
export { setAsap };
\n\nvar len = 0;\n\nvar
vertxNext = undefined;\n\nvar customSchedulerFn = undefined;\n\n\nvar asap = function asap(callback, arg) {\n queue[len] = callback;\n queue[len + 1] = arg;\n len += 2;\n if (len === 2) {\n // If len is 2, that means that we
need to schedule an async flush.\n // If additional callbacks are queued before the queue is flushed, they\n // will
be processed by this flush that we are scheduling.\n if (customSchedulerFn) {\n customSchedulerFn(flush);\n } else {\n scheduleFlush();\n }\n }\n}\n\nexport { asap };
\n\nfunction setScheduler(scheduleFn) {\n customSchedulerFn = scheduleFn;\n}\n\nfunction setAsap(asapFn) {\n asap = asapFn;\n}\n\nvar browserWindow =
typeof window !== 'undefined' ? window : undefined;\n\nvar browserGlobal = browserWindow || {};\n\nvar
BrowserMutationObserver = browserGlobal.MutationObserver || browserGlobal.WebKitMutationObserver;\n\nvar
isNode = typeof self === 'undefined' && typeof process !== 'undefined' && ({}).toString.call(process) === '[object
process]';
\n\n// test for web worker but not in IE10\nvar isWorker = typeof Uint8ClampedArray !== 'undefined' &&
typeof importScripts !== 'undefined' && typeof MessageChannel !== 'undefined';
\n\n// node\n\nfunction
useNextTick() {\n // node version 0.10.x displays a deprecation warning when nextTick is used recursively\n // see
https://github.com/cujojs/when/issues/410 for details\n return function () {\n return process.nextTick(flush);\n };\n}\n\n// vertx\n\nfunction useVertxTimer() {\n return function () {\n vertxNext(flush);\n };\n}\n\nfunction
useMutationObserver() {\n var iterations = 0;\n var observer = new BrowserMutationObserver(flush);\n var node
= document.createTextNode("");\n observer.observe(node, { characterData: true });
\n return function () {\n node.data = iterations = ++iterations % 2;\n };\n}\n\n// web worker\n\nfunction useMessageChannel() {\n var
```

```

channel = new MessageChannel();
channel.port1.onmessage = flush;
return function () {
 return
 channel.port2.postMessage(0);
};
}

function useSetTimeout() {
 // Store setTimeout reference so es6-
 promise will be unaffected by
 // other code modifying setTimeout (like sinon.useFakeTimers())
 var
 globalSetTimeout = setTimeout;
 return function () {
 return globalSetTimeout(flush, 1);
 };
}

var queue
= new Array(1000);
function flush() {
 for (var i = 0; i < len; i += 2) {
 var callback = queue[i];
 var arg =
 queue[i + 1];
 callback(arg);
 queue[i] = undefined;
 queue[i + 1] = undefined;
 }
 len =
 0;
}

function attemptVertx() {
 try {
 var r = require;
 var vertx = r('vertx');
 vertxNext =
 vertx.runOnLoop || vertx.runOnContext;
 return useVertxTimer();
 } catch (e) {
 return useSetTimeout();
 }
}

var scheduleFlush = undefined;
// Decide what async method to use to triggering processing of queued
callbacks:
if (isNode) {
 scheduleFlush = useNextTick();
} else if (BrowserMutationObserver) {
 scheduleFlush = useMutationObserver();
} else if (isWorker) {
 scheduleFlush = useMessageChannel();
} else if
(browserWindow === undefined && typeof require === 'function') {
 scheduleFlush = attemptVertx();
} else {
 scheduleFlush = useSetTimeout();
}

'use strict';

export default then;
import { invokeCallback, subscribe,
FULFILLED, REJECTED, noop, makePromise, PROMISE_ID } from './-internal';
import { asap } from
'/asap';
function then(onFulfillment, onRejection) {
 var _arguments = arguments;
 var parent = this;
 var child
= new this.constructor(noop);
 if (child[PROMISE_ID] === undefined) {
 makePromise(child);
 }
 var
 _state = parent._state;
 if (_state) {
 (function () {
 var callback = _arguments[_state - 1];
 asap(function () {
 return invokeCallback(_state, child, callback, parent._result);
 });
 })();
 } else {
 subscribe(parent, child, onFulfillment, onRejection);
 }
 return child;
}

'use strict';

export default
resolve;
import { noop, resolve as _resolve } from './-internal';
/**
`Promise.resolve` returns a promise that
will become resolved with the
passed `value`. It is shorthand for the following:

```javascript
let promise =
new Promise(function(resolve, reject){
  resolve(1);
});
promise.then(function(value){
  // value === 1
});

```

Instead of writing the above, your code now simply becomes the following:

```javascript
let
promise = Promise.resolve(1);
promise.then(function(value){
  // value === 1
});

```

@method
resolve
@static
@param {Any} value value that the returned promise will be resolved with
Useful for
tooling.
@return {Promise} a promise that will become fulfilled with the given
`value`

*/
function
resolve(object) {
 /*jshint validthis:true */
 var Constructor = this;
 if (object && typeof object === 'object'
&& object.constructor === Constructor) {
 return object;
 }
 var promise = new Constructor(noop);
 _resolve(promise, object);
 return promise;
}

'use strict';

import { objectOrFunction, isFunction } from
'/utils';
import { asap } from './asap';
import originalThen from './then';
import originalResolve from
'/promise/resolve';
var PROMISE_ID = Math.random().toString(36).substring(16);
export { PROMISE_ID
};
function noop() {}
var PENDING = void 0;
var FULFILLED = 1;
var REJECTED = 2;
var
GET_THEN_ERROR = new ErrorObject();
function selfFulfillment() {
 return new TypeError("You cannot
resolve a promise with itself");
}
function cannotReturnOwn() {
 return new TypeError('A promises callback
cannot return that same promise.');
```

```

maybeThenable.constructor.resolve === originalResolve) {\n handleOwnThenable(promise, maybeThenable);\n }
else {\n if (then === GET_THEN_ERROR) {\n reject(promise, GET_THEN_ERROR.error);\n } else if (then
=== undefined) {\n fulfill(promise, maybeThenable);\n } else if (isFunction(then)) {\n
handleForeignThenable(promise, maybeThenable, then);\n } else {\n fulfill(promise, maybeThenable);\n }\n
}\n\nfunction resolve(promise, value) {\n if (promise === value) {\n reject(promise, selfFulfillment());\n }
else if (objectOrFunction(value)) {\n handleMaybeThenable(promise, value, getThen(value));\n } else {\n
fulfill(promise, value);\n }\n}\n\nfunction publishRejection(promise) {\n if (promise._onerror) {\n
promise._onerror(promise._result);\n }\n\n publish(promise);\n}\n\nfunction fulfill(promise, value) {\n if
(promise._state !== PENDING) {\n return;\n }\n\n promise._result = value;\n promise._state =
FULFILLED;\n\n if (promise._subscribers.length !== 0) {\n asap(publish, promise);\n }\n}\n\nfunction
reject(promise, reason) {\n if (promise._state !== PENDING) {\n return;\n }\n\n promise._state = REJECTED;\n
promise._result = reason;\n\n asap(publishRejection, promise);\n}\n\nfunction subscribe(parent, child,
onFulfillment, onRejection) {\n var _subscribers = parent._subscribers;\n var length = _subscribers.length;\n
parent._onerror = null;\n\n _subscribers[length] = child;\n _subscribers[length + FULFILLED] = onFulfillment;\n
_subscribers[length + REJECTED] = onRejection;\n\n if (length === 0 && parent._state) {\n asap(publish,
parent);\n }\n}\n\nfunction publish(promise) {\n var subscribers = promise._subscribers;\n var settled =
promise._state;\n\n if (subscribers.length === 0) {\n return;\n }\n\n var child = undefined,\n callback =
undefined,\n detail = promise._result;\n\n for (var i = 0; i < subscribers.length; i += 3) {\n child =
subscribers[i];\n callback = subscribers[i + settled];\n\n if (child) {\n invokeCallback(settled, child, callback,
detail);\n } else {\n callback(detail);\n }\n }\n\n promise._subscribers.length = 0;\n}\n\nfunction
ErrorObject() {\n this.error = null;\n}\n\nvar TRY_CATCH_ERROR = new ErrorObject();\n\nfunction
tryCatch(callback, detail) {\n try {\n return callback(detail);\n } catch (e) {\n TRY_CATCH_ERROR.error =
e;\n return TRY_CATCH_ERROR;\n }\n}\n\nfunction invokeCallback(settled, promise, callback, detail) {\n var
hasCallback = isFunction(callback),\n value = undefined,\n error = undefined,\n succeeded = undefined,\n
failed = undefined;\n\n if (hasCallback) {\n value = tryCatch(callback, detail);\n\n if (value ===
TRY_CATCH_ERROR) {\n failed = true;\n error = value.error;\n value = null;\n } else {\n succeeded
= true;\n }\n\n if (promise === value) {\n reject(promise, cannotReturnOwn());\n return;\n } else {\n
value = detail;\n succeeded = true;\n }\n\n if (promise._state !== PENDING) {\n // noop\n } else if
(hasCallback && succeeded) {\n resolve(promise, value);\n } else if (failed) {\n reject(promise, error);\n }
else if (settled === FULFILLED) {\n fulfill(promise, value);\n } else if (settled === REJECTED) {\n
reject(promise, value);\n }\n}\n\nfunction initializePromise(promise, resolver) {\n try {\n resolver(function
resolvePromise(value) {\n resolve(promise, value);\n }, function rejectPromise(reason) {\n reject(promise,
reason);\n });\n } catch (e) {\n reject(promise, e);\n }\n}\n\nvar id = 0;\nfunction nextId() {\n return
id++;\n}\n\nfunction makePromise(promise) {\n promise[PROMISE_ID] = id++;\n promise._state = undefined;\n
promise._result = undefined;\n promise._subscribers = [];\n}\n\nexport { nextId, makePromise, getThen, noop,
resolve, reject, fulfill, subscribe, publish, publishRejection, initializePromise, invokeCallback, FULFILLED,
REJECTED, PENDING, handleMaybeThenable };","use strict";\n\nimport { isArray, isMaybeThenable } from
'./utils';\n\nimport { noop, reject, fulfill, subscribe, FULFILLED, REJECTED, PENDING, getThen,
handleMaybeThenable } from './-internal';\n\nimport then from './then';\n\nimport Promise from './promise';\n\nimport
originalResolve from './promise/resolve';\n\nimport originalThen from './then';\n\nimport { makePromise, PROMISE_ID
} from './-internal';\n\nexport default Enumerator;\n\nfunction Enumerator(Constructor, input) {\n this._instanceConstructor =
Constructor;\n this.promise = new Constructor(noop);\n\n if
(!this.promise[PROMISE_ID]) {\n makePromise(this.promise);\n }\n\n if (isArray(input)) {\n this._input =
input;\n this.length = input.length;\n this._remaining = input.length;\n\n this._result = new
Array(this.length);\n\n if (this.length === 0) {\n fulfill(this.promise, this._result);\n } else {\n this.length =
this.length || 0;\n this._enumerate();\n if (this._remaining === 0) {\n fulfill(this.promise, this._result);\n
 }\n } else {\n reject(this.promise, validationError());\n }\n }\n}\n\nfunction validationError() {\n return new
Error('Array Methods must be provided an Array');\n}\n\nEnumerator.prototype._enumerate = function () {\n var

```



```

{\n var length = entries.length;\n for (var i = 0; i < length; i++) {\n
Constructor.resolve(entries[i]).then(resolve, reject);\n }\n }}, ""use strict";\n\nexport default
reject;\nimport { noop, reject as _reject } from './-internal';\n\n/**\n `Promise.reject` returns a promise rejected
with the passed `reason`.\n It is shorthand for the following:\n\n ```javascript\n let promise = new
Promise(function(resolve, reject){\n reject(new Error("WHOOOPS")); \n });\n promise.then(function(value){\n
// Code here doesn't run because the promise is rejected!\n }, function(reason){\n // reason.message ===
'WHOOOPS'\n });\n ```\n\n Instead of writing the above, your code now simply becomes the following:\n\n
```javascript\n let promise = Promise.reject(new Error("WHOOOPS")); \n\n promise.then(function(value){\n // Code
here doesn't run because the promise is rejected!\n }, function(reason){\n // reason.message === 'WHOOOPS'\n
});\n ```\n\n @method reject\n @static\n @param {Any} reason value that the returned promise will be rejected
with.\n Useful for tooling.\n @return {Promise} a promise rejected with the given `reason`.\n*/\nfunction
reject(reason) {\n /*jshint validthis:true */\n var Constructor = this;\n var promise = new Constructor(noop);\n
_reject(promise, reason);\n return promise;\n }, ""use strict";\n\nexport default Promise;\n\nimport { isFunction }
from './utils';\n\nimport { noop, nextId, PROMISE_ID, initializePromise } from './-internal';\n\nimport { asap,
setAsap, setScheduler } from './asap';\n\nimport all from './promise/all';\n\nimport race from './promise/race';\n\nimport
Resolve from './promise/resolve';\n\nimport Reject from './promise/reject';\n\nimport then from './then';\n\nfunction
needsResolver() {\n throw new TypeError('You must pass a resolver function as the first argument to the promise
constructor');\n }\n\nfunction needsNew() {\n throw new TypeError('Failed to construct 'Promise': Please use the
'new' operator, this object constructor cannot be called as a function.');

```

```

Reject;
Promise._setScheduler = setScheduler;
Promise._setAsap = setAsap;
Promise._asap =
asap;

Promise.prototype = {
  constructor: Promise,
  /**
   * The primary way of interacting with a promise
   * is through its `then` method, which registers callbacks to receive either a promise's eventual value or the
   * reason why the promise cannot be fulfilled.
   *
   * ```js
   * findUser().then(function(user) {
   *   // user is available
   * }, function(reason) {
   *   // user is unavailable, and you are given the reason why
   * });
   *
   * Chaining
   * -----
   *
   * The return value of `then` is itself a promise. This second, 'downstream' promise is resolved with
   * the return value of the first promise's fulfillment or rejection handler, or rejected if the handler throws an
   * exception.
   *
   * ```js
   * findUser().then(function (user) {
   *   return user.name;
   * }, function (reason) {
   *   return 'default name';
   * }).then(function (userName) {
   *   // If `findUser` fulfilled, `userName` will be the user's
   *   // name, otherwise it
   *   // will be `default name`
   * });
   *
   * findUser().then(function (user) {
   *   throw new
   *   Error('Found user, but still unhappy');
   * }, function (reason) {
   *   throw new Error("`findUser` rejected and we're
   *   unhappy");
   * }).then(function (value) {
   *   // never reached
   * }, function (reason) {
   *   // If `findUser`
   *   // fulfilled, `reason` will be 'Found user, but still unhappy'.
   *   // If `findUser` rejected, `reason` will be "`findUser`
   *   // rejected and we're unhappy".
   * });
   *
   * If the downstream promise does not specify a rejection handler,
   * rejection reasons will be propagated further downstream.
   *
   * ```js
   * findUser().then(function (user) {
   *   throw new PedagogicalException('Upstream error');
   * }).then(function (value) {
   *   // never reached
   * }).then(function (value) {
   *   // never reached
   * }, function (reason) {
   *   // The `PedagogicalException` is
   *   // propagated all the way down to here
   * });
   *
   * Assimilation
   * -----
   *
   * Sometimes the value
   * you want to propagate to a downstream promise can only be
   * retrieved asynchronously. This can be achieved by
   * returning a promise in the
   * fulfillment or rejection handler. The downstream promise will then be pending
   * until the returned promise is settled. This is called *assimilation*.
   *
   * ```js
   * findUser().then(function (user) {
   *   return findCommentsByAuthor(user);
   * }).then(function (comments) {
   *   // The user's comments are now
   *   // available
   * });
   *
   * If the assimilated promise rejects, then the downstream promise will also reject.
   *
   * ```js
   * findUser().then(function (user) {
   *   return findCommentsByAuthor(user);
   * }).then(function
   * (comments) {
   *   // If `findCommentsByAuthor` fulfills, we'll have the value here
   * }, function (reason) {
   *   //
   *   // If `findCommentsByAuthor` rejects, we'll have the reason here
   * });
   *
   * Simple Example
   * -----
   *
   * Synchronous Example
   *
   * ```javascript
   * let result;
   *
   * try {
   *   result = findResult();
   *   //
   *   // success
   * } catch(reason) {
   *   //
   *   // failure
   * }
   *
   * Errback Example
   *
   * ```js
   * findResult(function(result, err){
   *   if (err) {
   *     //
   *     // failure
   *   } else {
   *     //
   *     // success
   *   }
   * });
   *
   * Promise Example;
   *
   * ```javascript
   * findResult().then(function(result){
   *   //
   *   // success
   * },
   * function(reason){
   *   //
   *   // failure
   * });
   *
   * Advanced Example
   * -----
   *
   * Synchronous
   * Example
   *
   * ```javascript
   * let author, books;
   *
   * try {
   *   author = findAuthor();
   *   books =
   *   findBooksByAuthor(author);
   *   //
   *   // success
   * } catch(reason) {
   *   //
   *   // failure
   * }
   *
   * Errback
   * Example
   *
   * ```js
   *
   * function foundBooks(books) {
   *
   * }
   *
   * function failure(reason) {
   *
   * }
   *
   * findAuthor(function(author, err){
   *   if (err) {
   *     //
   *     // failure(err);
   *     //
   *     // failure
   *   } else {
   *     //
   *     // try {
   *     findBoooksByAuthor(author, function(books, err) {
   *       if (err) {
   *         //
   *         // failure(err);
   *         //
   *         // failure
   *       } else {
   *         //
   *         // try {
   *         foundBooks(books);
   *         //
   *         // success
   *       } catch(reason) {
   *         //
   *         // failure(reason);
   *         //
   *         // failure
   *       }
   *     });
   *     //
   *     // success
   *   }
   * });
   *
   * Promise
   * Example;
   *
   * ```javascript
   * findAuthor().
   * then(findBooksByAuthor).
   * then(function(books){
   *   //
   *   // found books
   * }).catch(function(reason){
   *   //
   *   // something went wrong
   * });
   *
   * @method then
   * @param {Function} onFulfilled
   * @param {Function} onRejected
   * Useful for tooling.
   * @return
   * {Promise}
   * */
  then: then,
  /**
   * `catch` is simply sugar for `then(undefiend, onRejection)` which makes it
   * the same
   * as the catch block of a try/catch statement.
   *
   * ```js
   * function findAuthor(){
   *   throw new
   *   Error('couldn't find that author');
   * }
   *
   * // synchronous
   * try {
   *   findAuthor();
   * } catch(reason) {
   *   //
   *   // something went wrong
   * }
   *
   * // async with promises
   * findAuthor().catch(function(reason){
   *   //
   *   // something went wrong
   * });
   *
   * @method catch
   * @param {Function} onRejection
   * Useful for
   * tooling.
   * @return {Promise}
   * */
  'catch': function _catch(onRejection) {
    return this.then(null,
    onRejection);
  };
},
/*global self*/
'use strict';
export default polyfill;
import Promise from

```


AAM,EAAE;EACV,aAAa,GAAG,WAAW,EAAE,CAAC;CAC/B,MAAM,IAAI,uBAAuB,EAAE;EACIC,aAAa,G
AAG,mBAAmB,EAAE,CAAC;CACvC,MAAM,IAAI,QAAQ,EAAE;EACnB,aAAa,GAAG,iBAAiB,EAAE,CAAC
;CACrC,MAAM,IAAI,aAAa,KAAK,SAAS,IAAI,OAAO,OAAO,KAAK,UAAU,EAAE;EACvE,aAAa,GAAG,YA
AY,EAAE,CAAC;CAChC,MAAM;EACL,aAAa,GAAG,aAAa,EAAE,CAAC;;;ACtHIC,SAAS,IAAI,CAAC,aAAa,
EAAE,WAAW,EAAE;EACxC,IAAI,UAAU,GAAG,SAAS,CAAC;;EAE3B,IAAI,MAAM,GAAG,IAAI,CAAC;;E
AEIB,IAAI,KAAK,GAAG,IAAI,IAAI,CAAC,WAAW,CAAC,IAAI,CAAC,CAAC;;EAEvC,IAAI,KAAK,CAAC,
UAAU,CAAC,KAAK,SAAS,EAAE;IACnC,WAAW,CAAC,KAAK,CAAC,CAAC;GACpB;;EAED,IAAI,MAAM,
GAAG,MAAM,CAAC,MAAM,CAAC;;EAE3B,IAAI,MAAM,EAAE;IACV,CAAC,YAAY;MACX,IAAI,QAAQ,
GAAG,UAAU,CAAC,MAAM,GAAG,CAAC,CAAC,CAAC;MACtC,IAAI,CAAC,YAAY;QACf,OAAO,cAAc,C
AAC,MAAM,EAAE,KAAK,EAAE,QAAQ,EAAE,MAAM,CAAC,OAAO,CAAC,CAAC;OAcHe,CAAC,CAAC;
KACJ,CAAC,EAAE,CAAC;GACN,MAAM;IACL,SAAS,CAAC,MAAM,EAAE,KAAK,EAAE,aAAa,EAAE,WA
AW,CAAC,CAAC;GACtD;;EAED,OAAO,KAAK,CAAC;;;ACzBf;,,,,,,,,,,,,,,,,,,,,,,,,,,,,,AA+BA,SAAS,OAAO,C
AAC,MAAM,EAAE;;EAEvB,IAAI,WAAW,GAAG,IAAI,CAAC;;EAEvB,IAAI,MAAM,IAAI,OAAO,MAAM,KA
AK,QAAQ,IAAI,MAAM,CAAC,WAAW,KAAK,WAAW,EAAE;IAC9E,OAAO,MAAM,CAAC;GACf;;EAED,IA
AI,OAAO,GAAG,IAAI,WAAW,CAAC,IAAI,CAAC,CAAC;EACpC,QAAQ,CAAC,OAAO,EAAE,MAAM,CAA
C,CAAC;EAC1B,OAAO,OAAO,CAAC;;;ACrCjB,IAAI,UAAU,GAAG,IAAI,CAAC,MAAM,EAAE,CAAC,QAA
Q,CAAC,EAAE,CAAC,CAAC,SAAS,CAAC,EAAE,CAAC,CAAC;;AAE1D,AACA,SAAS,IAAI,GAAG,EAAE;;
AAEIB,IAAI,OAAO,GAAG,KAAK,CAAC,CAAC;AACrB,IAAI,SAAS,GAAG,CAAC,CAAC;AAC1B,IAAI,QAA
Q,GAAG,CAAC,CAAC;;AAEjB,IAAI,cAAc,GAAG,IAAI,WAAW,EAAE,CAAC;;AAEvC,SAAS,eAAe,GAAG;E
ACzB,OAAO,IAAI,SAAS,CAAC,0CAA0C,CAAC,CAAC;CACIE;;AAED,SAAS,eAAe,GAAG;EACzB,OAAO,I
AAI,SAAS,CAAC,sDAAsD,CAAC,CAAC;CAC9E;;AAED,SAAS,OAAO,CAAC,OAAO,EAAE;EACxB,IAAI;IA
CF,OAAO,OAAO,CAAC,IAAI,CAAC;GACrB,CAAC,OAAO,KAAK,EAAE;IACd,cAAc,CAAC,KAAK,GAAG,
KAAK,CAAC;IAC7B,OAAO,cAAc,CAAC;GACvB;CACF;;AAED,SAAS,OAAO,CAAC,IAAI,EAAE,KAAK,EA
AE,kBAaKB,EAAE,gBAaGB,EAAE;EACIE,IAAI;IACF,IAAI,CAAC,IAAI,CAAC,KAAK,EAAE,kBAaKB,EAA
E,gBAaGB,CAAC,CAAC;GACxD,CAAC,OAAO,CAAC,EAAE;IACV,OAAO,CAAC,CAAC;GACV;CACF;;AA
ED,SAAS,qBAaQB,CAAC,OAAO,EAAE,QAAQ,EAAE,IAAI,EAAE;EACtD,IAAI,CAAC,UAAU,OAAO,EAAE;
IACtB,IAAI,MAAM,GAAG,KAAK,CAAC;IACnB,IAAI,KAAK,GAAG,OAAO,CAAC,IAAI,EAAE,QAAQ,EAA
E,UAAU,KAAK,EAAE;MACnD,IAAI,MAAM,EAAE;QACV,OAAO;OACR;MACD,MAAM,GAAG,IAAI,CAA
C;MACd,IAAI,QAAQ,KAAK,KAAK,EAAE;QACtBC,QAAO,CAAC,OAAO,EAAE,KAAK,CAAC,CAAC;OACz
B,MAAM;QACL,OAAO,CAAC,OAAO,EAAE,KAAK,CAAC,CAAC;OACzB;KACF,EAAE,UAAU,MAAM,EA
AE;MACnB,IAAI,MAAM,EAAE;QACV,OAAO;OACR;MACD,MAAM,GAAG,IAAI,CAAC;;MAEdD,OAAM,C
AAC,OAAO,EAAE,MAAM,CAAC,CAAC;KACzB,EAAE,UAAU,GAAG,CAAC,OAAO,CAAC,MAAM,IAAI,k
BAaKB,CAAC,CAAC,CAAC;;IAExD,IAAI,CAAC,MAAM,IAAI,KAAK,EAAE;MACpB,MAAM,GAAG,IAAI,C
AAC;MACdA,OAAM,CAAC,OAAO,EAAE,KAAK,CAAC,CAAC;KACxB;GACF,EAAE,OAAO,CAAC,CAAC;
CACb;;AAED,SAAS,iBAAiB,CAAC,OAAO,EAAE,QAAQ,EAAE;EAC5C,IAAI,QAAQ,CAAC,MAAM,KAAK,
SAAS,EAAE;IACjC,OAAO,CAAC,OAAO,EAAE,QAAQ,CAAC,OAAO,CAAC,CAAC;GACpC,MAAM,IAAI,Q
AAQ,CAAC,MAAM,KAAK,QAAQ,EAAE;IACvCA,OAAM,CAAC,OAAO,EAAE,QAAQ,CAAC,OAAO,CAAC,
CAAC;GACnC,MAAM;IACL,SAAS,CAAC,QAAQ,EAAE,SAAS,EAAE,UAAU,KAAK,EAAE;MAC9C,OAAOC
,QAAO,CAAC,OAAO,EAAE,KAAK,CAAC,CAAC;KAChC,EAAE,UAAU,MAAM,EAAE;MACnB,OAAOD,OA
AM,CAAC,OAAO,EAAE,MAAM,CAAC,CAAC;KAChC,CAAC,CAAC;GACJ;CACF;;AAED,SAAS,mBAAmB,
CAAC,OAAO,EAAE,aAAa,EAAEI,MAAI,EAAE;EACzD,IAAI,aAAa,CAAC,WAAW,KAAK,OAAO,CAAC,WA
AW,IAAIA,MAAI,KAAKD,IAAY,IAAI,aAAa,CAAC,WAAW,CAAC,OAAO,KAAKD,OAAe,EAAE;IACvI,iBA
AiB,CAAC,OAAO,EAAE,aAAa,CAAC,CAAC;GAC3C,MAAM;IACL,IAAIE,MAAI,KAAK,cAAc,EAAE;MAC3
BJ,OAAM,CAAC,OAAO,EAAE,cAAc,CAAC,KAAK,CAAC,CAAC;KACvC,MAAM,IAAI,MAAI,KAAK,SAA
S,EAAE;MAC7B,OAAO,CAAC,OAAO,EAAE,aAAa,CAAC,CAAC;KACjC,MAAM,IAAI,UAAU,CAACA,MAA
I,CAAC,EAAE;MAC3B,qBAaQB,CAAC,OAAO,EAAE,aAAa,EAAEA,MAAI,CAAC,CAAC;KACrD,MAAM;M
ACL,OAAO,CAAC,OAAO,EAAE,aAAa,CAAC,CAAC;KACjC;GACF;CACF;;AAED,SAASH,QAAO,CAAC,OA
AO,EAAE,KAAK,EAAE;EAC/B,IAAI,OAAO,KAAK,KAAK,EAAE;IACrBD,OAAM,CAAC,OAAO,EAAE,eAA

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7B,WAAW,CAAC,IAAI,CAAC,OAAO,CAAC,CAAC;GAC3B;;EAED,IAAI,OAAO,CAAC,KAAK,CAAC,EAAE
;IACIB,IAAI,CAAC,MAAM,GAAG,KAAK,CAAC;IACpB,IAAI,CAAC,MAAM,GAAG,KAAK,CAAC,MAAM,
CAAC;IAC3B,IAAI,CAAC,UAAU,GAAG,KAAK,CAAC,MAAM,CAAC;;IAE/B,IAAI,CAAC,OAAO,GAAG,IA
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C;GAC/B;CACF,CAAC;;AAEF,UAAU,CAAC,SAAS,CAAC,UAAU,GAAG,UAAU,KAAK,EAAE,CAAC,EAAE;
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AM,IAAI,OAAO,KAAK,KAAK,UAAU,EAAE;MACtC,IAAI,CAAC,UAAU,EAAE,CAAC;MACIB,IAAI,CAAC,
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,IAAI,OAAO,GAAG,IAAI,CAAC,CAAC,IAAI,CAAC,CAAC;MAC1B,mBAAmB,CAAC,OAAO,EAAE,KAAK,
EAAE,KAAK,CAAC,CAAC;MAC3C,IAAI,CAAC,aAAa,CAAC,OAAO,EAAE,CAAC,CAAC,CAAC;KAChC,M
AAM;MACL,IAAI,CAAC,aAAa,CAAC,IAAI,CAAC,CAAC,UAAUF,SAAO,EAAE;QAC1C,OAAOA,SAAO,CA
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,aAAa,CAACA,SAAO,CAAC,KAAK,CAAC,EAAE,CAAC,CAAC,CAAC;GACvC;CACF,CAAC;;AAEF,UAAU,
CAAC,SAAS,CAAC,UAAU,GAAG,UAAU,KAAK,EAAE,CAAC,EAAE,KAAK,EAAE;EAC3D,IAAI,OAAO,GA
AG,IAAI,CAAC,OAAO,CAAC;;EAE3B,IAAI,OAAO,CAAC,MAAM,KAAK,OAAO,EAAE;IAC9B,IAAI,CAAC,
UAAU,EAAE,CAAC;;IAEIB,IAAI,KAAK,KAAK,QAAQ,EAAE;MACtBD,OAAM,CAAC,OAAO,EAAE,KAAK,
CAAC,CAAC;KACxB,MAAM;MACL,IAAI,CAAC,OAAO,CAAC,CAAC,CAAC,GAAG,KAAK,CAAC;KACzB;
GACF;;EAED,IAAI,IAAI,CAAC,UAAU,KAAK,CAAC,EAAE;IACzB,OAAO,CAAC,OAAO,EAAE,IAAI,CAAC
,OAAO,CAAC,CAAC;GAChC;CACF,CAAC;;AAEF,UAAU,CAAC,SAAS,CAAC,aAAa,GAAG,UAAU,OAAO,E
AAE,CAAC,EAAE;EACzD,IAAI,UAAU,GAAG,IAAI,CAAC;;EAEtB,SAAS,CAAC,OAAO,EAAE,SAAS,EAAE,
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WAAW,CAAC,UAAU,CAAC,EAAE,MAAM,EAAE;MAC1C,OAAO,MAAM,CAAC,IAAI,SAAS,CAAC,iCAAi
C,CAAC,CAAC,CAAC;KACjE,CAAC,CAAC;GACJ,MAAM;IACL,OAAO,IAAI,WAAW,CAAC,UAAU,OAAO,
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,GAAG,CAAC,EAAE,CAAC,GAAG,MAAM,EAAE,CAAC,EAAE,EAAE;QAC/B,WAAW,CAAC,OAAO,CAAC
,OAAO,CAAC,CAAC,CAAC,CAAC,IAAI,CAAC,OAAO,EAAE,MAAM,CAAC,CAAC;OACvD;KACF,C
AAC,CAAC;GACJ;;AChFH;;;;;;AAkCA,SAAS,MAAM,CAAC,MAAM,EAAE;;EAEtB,IAAI,
WAAW,GAAG,IAAI,CAAC;EACvB,IAAI,OAAO,GAAG,IAAI,WAAW,CAAC,IAAI,CAAC,CAAC;EACpC,OA
AO,CAAC,OAAO,EAAE,MAAM,CAAC,CAAC;EACzB,OAAO,OAAO,CAAC;;AC5BjB,SAAS,aAAa,GAAG;E


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} else {\n  scheduleFlush();\n } }\n};\n\nexport { asap };\n\nfunction setScheduler(scheduleFn) {\n  customSchedulerFn = scheduleFn;\n}\n\nfunction setAsap(asapFn) {\n  asap = asapFn;\n}\n\nvar browserWindow =\ntypeof window !== 'undefined' ? window : undefined;\nvar browserGlobal = browserWindow || {};\nvar\nBrowserMutationObserver = browserGlobal.MutationObserver || browserGlobal.WebKitMutationObserver;\nvar\nisNode = typeof self === 'undefined' && typeof process !== 'undefined' && ({}).toString.call(process) === '[object\nprocess]';\n\n// test for web worker but not in IE10\nvar isWorker = typeof Uint8ClampedArray !== 'undefined' &&\ntypeof importScripts !== 'undefined' && typeof MessageChannel !== 'undefined';\n\n// node\nfunction\nuseNextTick() {\n  // node version 0.10.x displays a deprecation warning when nextTick is used recursively\n  // see\nhttps://github.com/cujojs/when/issues/410 for details\n  return function () {\n    return process.nextTick(flush);\n  };\n}\n\n// vertx\nfunction useVertxTimer() {\n  return function () {\n    vertxNext(flush);\n  };\n}\n\nfunction\nuseMutationObserver() {\n  var iterations = 0;\n  var observer = new BrowserMutationObserver(flush);\n  var node\n= document.createTextNode('');\n  observer.observe(node, { characterData: true });\n\n  return function () {\n    node.data = iterations = ++iterations % 2;\n  };\n}\n\n// web worker\nfunction useMessageChannel() {\n  var\nchannel = new MessageChannel();\n  channel.port1.onmessage = flush;\n  return function () {\n    return\nchannel.port2.postMessage(0);\n  };\n}\n\nfunction useSetTimeout() {\n  // Store setTimeout reference so es6-\npromise will be unaffected by\n  // other code modifying setTimeout (like sinon.useFakeTimers())\n  var\nglobalSetTimeout = setTimeout;\n  return function () {\n    return globalSetTimeout(flush, 1);\n  };\n}\n\nvar queue\n= new Array(1000);\nfunction flush() {\n  for (var i = 0; i < len; i += 2) {\n    var callback = queue[i];\n    var arg =\nqueue[i + 1];\n\n    callback(arg);\n\n    queue[i] = undefined;\n    queue[i + 1] = undefined;\n  }\n  len =\n0;\n}\n\nfunction attemptVertx() {\n  try {\n    var r = require;\n    var vertx = r('vertx');\n    vertxNext =\nvertx.runOnLoop || vertx.runOnContext;\n    return useVertxTimer();\n  } catch (e) {\n    return useSetTimeout();\n  }\n}\n\nvar scheduleFlush = undefined;\n\n// Decide what async method to use to triggering processing of queued\ncallbacks:\nif (isNode) {\n  scheduleFlush = useNextTick();\n} else if (BrowserMutationObserver) {\n  scheduleFlush = useMutationObserver();\n} else if (isWorker) {\n  scheduleFlush = useMessageChannel();\n} else if\n(browserWindow === undefined && typeof require === 'function') {\n  scheduleFlush = attemptVertx();\n} else {\n  scheduleFlush = useSetTimeout();\n}\n\n","use strict";\n\nexport default then;\n\nimport { invokeCallback, subscribe,\nFULFILLED, REJECTED, noop, makePromise, PROMISE_ID } from './-internal';\n\nimport { asap } from\n './asap';\n\nfunction then(onFulfillment, onRejection) {\n  var _arguments = arguments;\n\n  var parent = this;\n  var\nchild = new this.constructor(noop);\n\n  if (child[PROMISE_ID] === undefined) {\n    makePromise(child);\n  }\n\n  var\n_state = parent._state;\n\n  if (_state) {\n    (function () {\n      var callback = _arguments[_state - 1];\n\n      asap(function () {\n        return invokeCallback(_state, child, callback, parent._result);\n      });\n    })();\n  } else {\n    subscribe(parent, child, onFulfillment, onRejection);\n  }\n\n  return child;\n}\n\n","use strict";\n\nexport default\nresolve;\n\nimport { noop, resolve as _resolve } from './-internal';\n\n/**\n `Promise.resolve` returns a promise that\nwill become resolved with the\n passed `value`. It is shorthand for the following:\n\n ``javascript\n let promise =\nnew Promise(function(resolve, reject){\n  resolve(1);\n});\n\n promise.then(function(value){\n  // value === 1\n});\n\n ``\n\n Instead of writing the above, your code now simply becomes the following:\n\n ``javascript\n let\npromise = Promise.resolve(1);\n\n promise.then(function(value){\n  // value === 1\n});\n\n ``\n\n @method\nresolve\n @static\n @param {Any} value value that the returned promise will be resolved with\n Useful for\ntooling.\n @return {Promise} a promise that will become fulfilled with the given\n `value`\n*/\n\nfunction\nresolve(object) {\n  /*jshint validthis:true */\n  var Constructor = this;\n\n  if (object && typeof object === 'object'\n&& object.constructor === Constructor) {\n    return object;\n  }\n\n  var promise = new Constructor(noop);\n  _resolve(promise, object);\n  return promise;\n}\n\n","use strict";\n\nimport { objectOrFunction, isFunction } from\n './utils';\n\nimport { asap } from './asap';\n\nimport originalThen from './then';\n\nimport originalResolve from\n './promise/resolve';\n\nvar PROMISE_ID = Math.random().toString(36).substring(16);\n\nexport { PROMISE_ID\n};\n\nfunction noop() {}\n\nvar PENDING = void 0;\nvar FULFILLED = 1;\nvar REJECTED = 2;\n\nvar\nGET_THEN_ERROR = new ErrorObject();\n\nfunction selfFulfillment() {\n  return new TypeError("\nYou cannot\nresolve a promise with itself");\n}\n\nfunction cannotReturnOwn() {\n  return new TypeError('A promises callback\ncannot return that same promise.);\n}\n\nfunction getThen(promise) {\n  try {\n    return promise.then;\n  } catch

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(error) {\n  GET_THEN_ERROR.error = error;\n  return GET_THEN_ERROR;\n }\n}\n\nfunction
tryThen(then, value, fulfillmentHandler, rejectionHandler) {\n  try {\n    then.call(value, fulfillmentHandler,
rejectionHandler);\n  } catch (e) {\n    return e;\n  }\n}\n\nfunction handleForeignThenable(promise, thenable, then)
{\n  asap(function (promise) {\n    var sealed = false;\n    var error = tryThen(then, thenable, function (value) {\n
if (sealed) {\n    return;\n  }\n  sealed = true;\n  if (thenable !== value) {\n    resolve(promise, value);\n
} else {\n    fulfill(promise, value);\n  }\n  }, function (reason) {\n    if (sealed) {\n    return;\n  }\n
sealed = true;\n\n    reject(promise, reason);\n  }, 'Settle: ' + (promise._label || 'unknown promise'));\n\n  if
(!sealed && error) {\n    sealed = true;\n    reject(promise, error);\n  }\n  }, promise);\n}\n}\n\nfunction
handleOwnThenable(promise, thenable) {\n  if (thenable._state === FULFILLED) {\n    fulfill(promise,
thenable._result);\n  } else if (thenable._state === REJECTED) {\n    reject(promise, thenable._result);\n  } else {\n
subscribe(thenable, undefined, function (value) {\n    return resolve(promise, value);\n  }, function (reason) {\n
return reject(promise, reason);\n  });\n}\n}\n\nfunction handleMaybeThenable(promise, maybeThenable, then)
{\n  if (maybeThenable.constructor === promise.constructor && then === originalThen &&
maybeThenable.constructor.resolve === originalResolve) {\n    handleOwnThenable(promise, maybeThenable);\n  }
else {\n    if (then === GET_THEN_ERROR) {\n    reject(promise, GET_THEN_ERROR.error);\n  } else if (then
=== undefined) {\n    fulfill(promise, maybeThenable);\n  } else if (isFunction(then)) {\n
handleForeignThenable(promise, maybeThenable, then);\n  } else {\n    fulfill(promise, maybeThenable);\n  }\n
}\n}\n\nfunction resolve(promise, value) {\n  if (promise === value) {\n    reject(promise, selfFulfillment());\n  }
else if (objectOrFunction(value)) {\n    handleMaybeThenable(promise, value, getThen(value));\n  } else {\n
fulfill(promise, value);\n  }\n}\n\nfunction publishRejection(promise) {\n  if (promise._onerror) {\n
promise._onerror(promise._result);\n  }\n\n  publish(promise);\n}\n\nfunction fulfill(promise, value) {\n  if
(promise._state !== PENDING) {\n    return;\n  }\n\n  promise._result = value;\n  promise._state =
FULFILLED;\n\n  if (promise._subscribers.length !== 0) {\n    asap(publish, promise);\n  }\n}\n\nfunction
reject(promise, reason) {\n  if (promise._state !== PENDING) {\n    return;\n  }\n\n  promise._state = REJECTED;\n
promise._result = reason;\n\n  asap(publishRejection, promise);\n}\n\nfunction subscribe(parent, child,
onFulfillment, onRejection) {\n  var _subscribers = parent._subscribers;\n  var length = _subscribers.length;\n\n
parent._onerror = null;\n\n  _subscribers[length] = child;\n  _subscribers[length + FULFILLED] = onFulfillment;\n
_subscribers[length + REJECTED] = onRejection;\n\n  if (length === 0 && parent._state) {\n    asap(publish,
parent);\n  }\n}\n\nfunction publish(promise) {\n  var subscribers = promise._subscribers;\n  var settled =
promise._state;\n\n  if (subscribers.length === 0) {\n    return;\n  }\n\n  var child = undefined,\n    callback =
undefined,\n    detail = promise._result;\n\n  for (var i = 0; i < subscribers.length; i += 3) {\n    child =
subscribers[i];\n    callback = subscribers[i + settled];\n\n    if (child) {\n    invokeCallback(settled, child, callback,
detail);\n  } else {\n    callback(detail);\n  }\n  }\n\n  promise._subscribers.length = 0;\n}\n\nfunction
ErrorObject() {\n  this.error = null;\n}\n\nvar TRY_CATCH_ERROR = new ErrorObject();\n\nfunction
tryCatch(callback, detail) {\n  try {\n    return callback(detail);\n  } catch (e) {\n    TRY_CATCH_ERROR.error =
e;\n    return TRY_CATCH_ERROR;\n  }\n}\n\nfunction invokeCallback(settled, promise, callback, detail) {\n  var
hasCallback = isFunction(callback),\n    value = undefined,\n    error = undefined,\n    succeeded = undefined,\n
failed = undefined;\n\n  if (hasCallback) {\n    value = tryCatch(callback, detail);\n\n    if (value ===
TRY_CATCH_ERROR) {\n    failed = true;\n    error = value.error;\n    value = null;\n  } else {\n    succeeded
= true;\n  }\n\n  if (promise === value) {\n    reject(promise, cannotReturnOwn());\n    return;\n  }\n  } else {\n
value = detail;\n  succeeded = true;\n  }\n\n  if (promise._state !== PENDING) {\n    // noop\n  } else if
(hasCallback && succeeded) {\n    resolve(promise, value);\n  } else if (failed) {\n    reject(promise, error);\n  }
else if (settled === FULFILLED) {\n    fulfill(promise, value);\n  } else if (settled === REJECTED) {\n
reject(promise, value);\n  }\n}\n\nfunction initializePromise(promise, resolver) {\n  try {\n    resolver(function
resolvePromise(value) {\n    resolve(promise, value);\n  }, function rejectPromise(reason) {\n    reject(promise,
reason);\n  });\n  } catch (e) {\n    reject(promise, e);\n  }\n}\n\nvar id = 0;\nfunction nextId() {\n  return
id++;\n}\n\nfunction makePromise(promise) {\n  promise[PROMISE_ID] = id++;\n  promise._state = undefined;\n
promise._result = undefined;\n  promise._subscribers = [];\n}\n\nexport { nextId, makePromise, getThen, noop,

```

```

resolve, reject, fulfill, subscribe, publish, publishRejection, initializePromise, invokeCallback, FULFILLED,
REJECTED, PENDING, handleMaybeThenable };"use strict";\n\nimport { isArray, isMaybeThenable } from
'/utils';\n\nimport { noop, reject, fulfill, subscribe, FULFILLED, REJECTED, PENDING, getThen,
handleMaybeThenable } from './-internal';\n\nimport then from './then';\n\nimport Promise from './promise';\n\nimport
originalResolve from './promise/resolve';\n\nimport originalThen from './then';\n\nimport { makePromise, PROMISE_ID
} from './-internal';\n\nexport default Enumerator;\n\nfunction Enumerator(Constructor, input) {\n
this._instanceConstructor = Constructor;\n
this.promise = new Constructor(noop);\n\n if
(!this.promise[PROMISE_ID]) {\n
  makePromise(this.promise);\n
}\n\n if (isArray(input)) {\n
  this._input =
input;\n
  this.length = input.length;\n
  this._remaining = input.length;\n\n
  this._result = new
Array(this.length);\n\n
  if (this.length === 0) {\n
    fulfill(this.promise, this._result);\n
  } else {\n
    this.length =
this.length || 0;\n
    this._enumerate();\n
    if (this._remaining === 0) {\n
      fulfill(this.promise, this._result);\n
    }\n
  } else {\n
    reject(this.promise, validationError());\n
  }\n
}\n\nfunction validationError() {\n
return new
Error('Array Methods must be provided an Array');\n
}\n\nEnumerator.prototype._enumerate = function () {\n
var
length = this.length;\n
var _input = this._input;\n\n
for (var i = 0; this._state === PENDING && i < length; i++)
{\n
  this._eachEntry(_input[i], i);\n
}\n\n
Enumerator.prototype._eachEntry = function (entry, i) {\n
var c =
this._instanceConstructor;\n
var resolve = c.resolve;\n\n
if (resolve === originalResolve) {\n
  var _then =
getThen(entry);\n\n
  if (_then === originalThen && entry._state !== PENDING) {\n
    this._settledAt(entry._state, i, entry._result);\n
  } else if (typeof _then !== 'function') {\n
    this._remaining--;\n
    this._result[i] = entry;\n
  } else if (c === Promise) {\n
    var promise = new c(noop);\n
    handleMaybeThenable(promise, entry, _then);\n
    this._willSettleAt(promise, i);\n
  } else {\n
    this._willSettleAt(new c(function (resolve) {\n
      return resolve(entry);\n
    }), i);\n
  } else {\n
    this._willSettleAt(resolve(entry), i);\n
  }\n
}\n\n
Enumerator.prototype._settledAt = function (state, i, value) {\n
var
promise = this.promise;\n\n
if (promise._state === PENDING) {\n
  this._remaining--;\n\n
  if (state ===
REJECTED) {\n
    reject(promise, value);\n
  } else {\n
    this._result[i] = value;\n
  }\n
}\n\n
if (this._remaining
=== 0) {\n
  fulfill(promise, this._result);\n
}\n
}\n\n
Enumerator.prototype._willSettleAt = function (promise, i) {\n
var
enumerator = this;\n\n
subscribe(promise, undefined, function (value) {\n
return
enumerator._settledAt(FULFILLED, i, value);\n
}, function (reason) {\n
return
enumerator._settledAt(REJECTED, i, reason);\n
});\n
};"use strict";\n\nexport default all;\n\nimport Enumerator
from './enumerator';\n\n/**\n
`Promise.all` accepts an array of promises, and returns a new promise which\n
is fulfilled with an array of fulfillment values for the passed promises, or\n
rejected with the reason of the first passed
promise to be rejected. It casts all\n
elements of the passed iterable to promises as it runs this algorithm.\n\n
Example:\n\n
```javascript\n
let promise1 = resolve(1);\n
let promise2 = resolve(2);\n
let promise3 = resolve(3);\n\n
let promises = [promise1, promise2, promise3];\n\n
Promise.all(promises).then(function(array){\n
 // The array
 here would be [1, 2, 3];\n
});\n\n
```*\n\n
If any of the `promises` given to `all` are rejected, the first promise\n
that
is rejected will be given as an argument to the returned promises's\n
rejection handler. For example:\n\n
Example:\n\n
```javascript\n
let promise1 = resolve(1);\n
let promise2 = reject(new Error("2"));
let promise3 =
reject(new Error("3"));
let promises = [promise1, promise2, promise3];\n\n
Promise.all(promises).then(function(array){\n
 // Code here never runs because there are rejected promises!\n
},
function(error) {\n
 // error.message === "2"\n
});\n\n
```*\n\n
@method all\n
@static\n
@param {Array} entries
array of promises\n
@param {String} label optional string for labeling the promise.\n
Useful for tooling.\n
@return {Promise} promise that is fulfilled when all `promises` have been\n
fulfilled, or rejected if any of them
become rejected.\n
@static\n
*/\n\nfunction all(entries) {\n
return new Enumerator(this, entries).promise;\n
};"use
strict";\n\nexport default race;\n\nimport { isArray } from './utils';\n\n/**\n
`Promise.race` returns a new promise
which is settled in the same way as the\n
first passed promise to settle.\n\n
Example:\n\n
```javascript\n
let
promise1 = new Promise(function(resolve, reject){\n
 setTimeout(function(){\n
 resolve('promise 1');\n
 },
200);\n
});\n\n
let promise2 = new Promise(function(resolve, reject){\n
 setTimeout(function(){\n
 resolve('promise 2');\n
 }, 100);\n
});\n\n
Promise.race([promise1, promise2]).then(function(result){\n
 // result
 === 'promise 2' because it was resolved before promise1\n
 // was resolved.\n
});\n\n
```*\n\n
`Promise.race` is

```

deterministic in that only the state of the first settled promise matters. For example, even if other promises given to the `promises` array argument are resolved, but the first settled promise has become rejected before the other promises became fulfilled, the returned promise will become rejected:

```

`javascript
let promise1 = new Promise(function(resolve, reject){
  setTimeout(function(){
    resolve('promise 1');
  }, 200);
});
let promise2 = new Promise(function(resolve, reject){
  setTimeout(function(){
    reject(new Error('promise 2'));
  }, 100);
});
Promise.race([promise1, promise2]).then(function(result){
  // Code here never runs
}, function(reason){
  // reason.message === 'promise 2' because promise 2 became rejected before
  // promise 1 became fulfilled
});
`
`
An example real-world use case is implementing timeouts:
`javascript
Promise.race([ajax('foo.json'), timeout(5000)])
`
`
@method race
@static
@param {Array} promises array of promises to observe
Useful for tooling.
@return {Promise} a promise which settles in the same way as the first passed promise to settle.
*/
function race(entries) {
  /*jshint validthis:true */
  var Constructor = this;
  if (!isArray(entries)) {
    return new Constructor(function (_, reject) {
      return reject(new TypeError('You must pass an array to race.'));
    });
  } else {
    return new Constructor(function (resolve, reject) {
      var length = entries.length;
      for (var i = 0; i < length; i++) {
        Constructor.resolve(entries[i]).then(resolve, reject);
      }
    });
  }
}
`
"use strict";
export default reject;
import { noop, reject as _reject } from './-internal';
/**
`Promise.reject` returns a promise rejected with the passed `reason`.
It is shorthand for the following:
`javascript
let promise = new Promise(function(resolve, reject){
  reject(new Error('WHOOPS'));
});
promise.then(function(value){
  // Code here doesn't run because the promise is rejected!
}, function(reason){
  // reason.message === 'WHOOPS'
});
`
`
Instead of writing the above, your code now simply becomes the following:
`javascript
let promise = Promise.reject(new Error('WHOOPS'));
promise.then(function(value){
  // Code here doesn't run because the promise is rejected!
}, function(reason){
  // reason.message === 'WHOOPS'
});
`
`
@method reject
@static
@param {Any} reason value that the returned promise will be rejected with.
Useful for tooling.
@return {Promise} a promise rejected with the given `reason`.
*/
function reject(reason) {
  /*jshint validthis:true */
  var Constructor = this;
  var promise = new Constructor(noop);
  _reject(promise, reason);
  return promise;
}
`
"use strict";
export default Promise;
import { isFunction } from './utils';
import { noop, nextId, PROMISE_ID, initializePromise } from './-internal';
import { asap, setAsap, setScheduler } from './asap';
import all from './promise/all';
import race from './promise/race';
import Resolve from './promise/resolve';
import Reject from './promise/reject';
import then from './then';
function needsResolver() {
  throw new TypeError('You must pass a resolver function as the first argument to the promise constructor');
}
function needsNew() {
  throw new TypeError('"Failed to construct \'Promise\': Please use the \'new\' operator, this object constructor cannot be called as a function.');"
}
/**
Promise objects represent the eventual result of an asynchronous operation. The primary way of interacting with a promise is through its `then` method, which registers callbacks to receive either a promise's eventual value or the reason why the promise cannot be fulfilled.
Terminology
-----
- `promise` is an object or function with a `then` method whose behavior conforms to this specification.
- `thenable` is an object or function that defines a `then` method.
- `value` is any legal JavaScript value (including undefined, a thenable, or a promise).
- `exception` is a value that is thrown using the throw statement.
- `reason` is a value that indicates why a promise was rejected.
- `settled` the final resting state of a promise, fulfilled or rejected.
A promise can be in one of three states: pending, fulfilled, or rejected.
Promises that are fulfilled have a fulfillment value and are in the fulfilled state.
Promises that are rejected have a rejection reason and are in the rejected state. A fulfillment value is never a thenable.
Promises can also be said to `resolve` a value. If this value is also a promise, then the original promise's settled state will match the value's settled state. So a promise that `resolves` a promise that rejects will itself reject, and a promise that `resolves` a promise that fulfills will itself fulfill.
Basic Usage:
-----
`js
let promise = new Promise(function(resolve, reject) {
  // on success
  resolve(value);
  // on failure
  reject(reason);
});
promise.then(function(value) {
  // on fulfillment
}, function(reason) {
  // on rejection
});
`
`
Advanced Usage:
-----
Promises shine when abstracting away asynchronous interactions such as `XMLHttpRequest`s.
`js
function getJSON(url) {
  return new

```



```

Promise(function(resolve, reject){
  let xhr = new XMLHttpRequest();
  xhr.open('GET', url);
  xhr.onreadystatechange = handler;
  xhr.responseType = 'json';
  xhr.setRequestHeader('Accept',
  'application/json');
  xhr.send();
  function handler() {
    if (this.readyState === this.DONE) {
      if (this.status === 200) {
        resolve(this.response);
      } else {
        reject(new Error('getJSON: ` + url +
        ` failed with status: [ ` + this.status + ` ]'));
      }
    }
  }
});
getJSON('/posts.json').then(function(json) {
  // on fulfillment
}, function(reason) {
  // on rejection
});
`
`
Unlike callbacks, promises are great composable primitives.
`js
Promise.all([
  getJSON('/posts'),
  getJSON('/comments')
]).then(function(values) {
  values[0] // => postsJSON
  values[1] // => commentsJSON
  return values;
});
`
`
@class Promise
@param {function}
resolver
Useful for tooling.
@constructor
function Promise(resolver) {
  this[PROMISE_ID] =
  nextId();
  this._result = this._state = undefined;
  this._subscribers = [];
  if (noop !== resolver) {
    typeOf
    resolver !== 'function' && needsResolver();
    this instanceof Promise ? initializePromise(this, resolver) :
    needsNew();
  }
}
Promise.all = all;
Promise.race = race;
Promise.resolve = Resolve;
Promise.reject =
Reject;
Promise._setScheduler = setScheduler;
Promise._setAsap = setAsap;
Promise._asap =
asap;
Promise.prototype = {
  constructor: Promise,
  /**
  The primary way of interacting with a promise
  is through its `then` method,
  which registers callbacks to receive either a promise's eventual value or the
  reason why the promise cannot be fulfilled.
  `
`js
  findUser().then(function(user) {
    // user is available
  }, function(reason) {
    // user is unavailable, and you are given the reason why
  });
`
`
Chaining
-----
`
`
The return value of `then` is itself a promise. This second, 'downstream'
promise is resolved with
the return value of the first promise's fulfillment
or rejection handler, or rejected if the handler throws an
exception.
`
`
`js
  findUser().then(function (user) {
    return user.name;
  }, function (reason) {
    return 'default name';
  }).then(function (userName) {
    // If `findUser` fulfilled, `userName` will be the user's
    name, otherwise it
    // will be `default name`
  });
  findUser().then(function (user) {
    throw new
    Error('Found user, but still unhappy');
  }, function (reason) {
    throw new Error("`findUser` rejected and we're
    unhappy");
  }).then(function (value) {
    // never reached
  }, function (reason) {
    // if `findUser`
    fulfilled, `reason` will be 'Found user, but still unhappy'.
    // If `findUser` rejected, `reason` will be "`findUser`
    rejected and we're unhappy`.
  });
`
`
If the downstream promise does not specify a rejection handler,
rejection reasons will be propagated further downstream.
`
`
`js
  findUser().then(function (user) {
    throw new PedagogicalException('Upstream error');
  }).then(function (value) {
    // never reached
  }).then(function (value) {
    // never reached
  }, function (reason) {
    // The `PedagogicalException` is
    propagated all the way down to here
  });
`
`
Assimilation
-----
`
`
Sometimes the value
you want to propagate to a downstream promise can only be
retrieved asynchronously. This can be achieved by
returning a promise in the
fulfillment or rejection handler. The downstream promise will then be pending
until the returned promise is settled. This is called *assimilation*.
`
`
`js
  findUser().then(function (user) {
    return findCommentsByAuthor(user);
  }).then(function (comments) {
    // The user's comments are now
    available
  });
`
`
If the assimilated promise rejects, then the downstream promise will also reject.
`
`
`js
  findUser().then(function (user) {
    return findCommentsByAuthor(user);
  }).then(function
  (comments) {
    // If `findCommentsByAuthor` fulfills, we'll have the value here
  }, function (reason) {
    //
    If `findCommentsByAuthor` rejects, we'll have the reason here
  });
`
`
Simple Example
-----
-
`
`
Synchronous Example
`
`
`javascript
let result;
try {
  result = findResult();
  //
  success
} catch(reason) {
  // failure
}
`
`
Errback Example
`
`
`js
findResult(function(result, err){
  if (err) {
    // failure
  } else {
    // success
  }
});
`
`
Promise Example
`
`
`javascript
findResult().then(function(result){
  // success
},
function(reason){
  // failure
});
`
`
Advanced Example
-----
`
`
Synchronous
Example
`
`
`javascript
let author, books;
try {
  author = findAuthor();
  books =
  findBooksByAuthor(author);
  // success
} catch(reason) {
  // failure
}
`
`
Errback
Example
`
`
`js
function foundBooks(books) {
  //
}
function failure(reason) {
  //
}
findAuthor(function(author, err){
  if (err) {
    failure(err);
    // failure
  } else {
    try {

```

```

findBooksByAuthor(author, function(books, err) {
  if (err) {
    failure(err);
  } else {
    try {
      foundBooks(books);
    } catch (reason) {
      failure(reason);
    }
  }
});
} catch (error) {
  failure(err);
} // success
} Promise
Example
`javascrip
findAuthor().
then(findBooksByAuthor).
then(function(books) {
  found books
}).catch(function(reason) {
  // something went wrong
});
`
@method then
@param {Function} onFulfilled
@param {Function} onRejected
Useful for tooling.
@return
{Promise}
*/
then: then,
/**
`catch` is simply sugar for `then(undefined, onRejection)` which makes it
the same
as the catch block of a try/catch statement.
`js
function findAuthor() {
  throw new
  Error('couldn't find that author');
}
// synchronous
try {
  findAuthor();
} catch (reason) {
  // something went wrong
}
// async with promises
findAuthor().catch(function(reason) {
  //
  something went wrong
});
`
@method catch
@param {Function} onRejection
Useful for
tooling.
@return {Promise}
*/
'catch': function _catch(onRejection) {
  return this.then(null,
  onRejection);
};
"/**global self*/
'use strict';
nextport default polyfill;
import Promise from
'./promise';
function polyfill() {
  var local = undefined;
  if (typeof global !== 'undefined') {
    local =
    global;
  } else if (typeof self !== 'undefined') {
    local = self;
  } else {
    try {
      local =
      Function('return this')();
    } catch (e) {
      throw new Error('polyfill failed because global object is
      unavailable in this environment');
    }
  }
  var P = local.Promise;
  if (P) {
    var
    promiseToString = null;
    try {
      promiseToString = Object.prototype.toString.call(P.resolve());
    }
    catch (e) {
      // silently ignored
    }
    if (promiseToString === '[object Promise]' && !P.cast) {
      return;
    }
  }
  local.Promise = Promise;
}
"/**use strict*/
import Promise from './es6-
promise/promise';
import polyfill from './es6-promise/polyfill';
polyfill();
// Strange compat.
Promise.polyfill
= polyfill;
Promise.Promise = Promise;
nextport default
Promise;
"names": ["reject", "resolve", "originalResolve", "originalThen", "then", "Resolve", "Reject"],
"mappings": "A
AAA;ACA;ACA;ACA;ACA;ACA;ACA;ACAA,SAAS,gBAAGB,CAAC,CAAC,EAAE;EAC3B,O
AAO,OAAO,CAAC,KAAK,UAAU,IAAI,OAAO,CAAC,KAAK,QAAQ,IAAI,CAAC,KAAK,IAAI,CAAC;CACvE
;AAED,SAAS,UAAU,CAAC,CAAC,EAAE;EACrB,OAAO,OAAO,CAAC,KAAK,UAAU,CAAC;CACHc;AAE
D,AAIA,IAAI,QAAQ,GAAG,SAAS,CAAC;AACzB,IAAI,CAAC,KAAK,CAAC,OAAO,EAAE;EACIB,QAAQ,G
AAG,UAAU,CAAC,EAAE;IACtB,OAAO,MAAM,CAAC,SAAS,CAAC,QAAQ,CAAC,IAAI,CAAC,CAAC,CAA
C,KAAK,gBAAGB,CAAC;GAC/D,CAAC;CACH,MAAM;EACL,QAAQ,GAAG,KAAK,CAAC,OAAO,CAAC;C
ACIB;AAED,IAAI,OAAO,GAAG,QAAQ,CAAC,AACvB;ACxBA,IAAI,GAAG,GAAG,CAAC,CAAC;AACZ,I
AAI,SAAS,GAAG,SAAS,CAAC;AACIB,IAAI,iBAAiB,GAAG,SAAS,CAAC;AAEIC,IAAI,IAAI,GAAG,SAAS,
IAAI,CAAC,QAAQ,EAAE,GAAG,EAAE;EACtC,KAAK,CAAC,GAAG,CAAC,GAAG,QAAQ,CAAC;EACtB,K
AAK,CAAC,GAAG,GAAG,CAAC,CAAC,GAAG,GAAG,CAAC;EACrB,GAAG,IAAI,CAAC,CAAC;EACT,IAA
I,GAAG,KAAK,CAAC,EAAE;IAIb,IAAI,iBAAiB,EAAE;MACrB,iBAAiB,CAAC,KAAK,CAAC,CAAC;KACI
B,MAAM;MACL,aAAa,EAAE,CAAC;KACjB;GACF;CACF,CAAC;AAEF,AAEA,SAAS,YAAZ,CAAC,UAAU,
EAAE;EACHc,iBAAiB,GAAG,UAAU,CAAC;CACHc;AAED,SAAS,OAAO,CAAC,MAAM,EAAE;EACvB,IAA
I,GAAG,MAAM,CAAC;CACf;AAED,IAAI,aAAa,GAAG,OAAO,MAAM,KAAK,WAAW,GAAG,MAAM,GAA
G,SAAS,CAAC;AACvE,IAAI,aAAa,GAAG,aAAa,IAAI,EAAE,CAAC;AACxC,IAAI,uBAAB,GAAG,aAAa,CA
AC,gBAAGB,IAAI,aAAa,CAAC,sBAASB,CAAC;AACrG,IAAI,MAAM,GAAG,OAAO,IAAI,KAAK,WAAW,IA
AI,OAAO,OAAO,KAAK,WAAW,IAAI,CAAC,EAAE,CAAC,CAAC,QAAQ,CAAC,IAAI,CAAC,OAAO,CAAC,
KAAK,kBAaKB,CAAC;AAGjI,IAAI,QAAQ,GAAG,OAAO,iBAAiB,KAAK,WAAW,IAAI,OAAO,aAAa,KAA
K,WAAW,IAAI,OAAO,cAAc,KAAK,WAAW,CAAC;AAGzL,SAAS,WAAW,GAAG;EAGrB,OAAO,YAAZ;I
ACjB,OAAO,OAAO,CAAC,QAAQ,CAAC,KAAK,CAAC,CAAC;GACHc,CAAC;CACH;AAGD,SAAS,aAAa,G
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CAAC,SAAS,CAAC,UAAU,GAAG,UAAU,KAAK,EAAE,CAAC,EAAE,KAAK,EAAE;EAC3D,IAAI,OAAO,GA
AG,IAAI,CAAC,OAAO,CAAC;;EAE3B,IAAI,OAAO,CAAC,MAAM,KAAK,OAAO,EAAE;IAC9B,IAAI,CAAC,
UAAU,EAAE,CAAC;;IAEIB,IAAI,KAAK,KAAK,QAAQ,EAAE;MACtBD,OAAM,CAAC,OAAO,EAAE,KAAK,
CAAC,CAAC;KACxB,MAAM;MACL,IAAI,CAAC,OAAO,CAAC,CAAC,CAAC,GAAG,KAAK,CAAC;KACzB;
GACF;;EAED,IAAI,IAAI,CAAC,UAAU,KAAK,CAAC,EAAE;IACzB,OAAO,CAAC,OAAO,EAAE,IAAI,CAAC
,OAAO,CAAC,CAAC;GACHc;CACF,CAAC;;AAEF,UAAU,CAAC,SAAS,CAAC,aAAa,GAAG,UAAU,OAAO,E
AAE,CAAC,EAAE;EACzD,IAAI,UAAU,GAAG,IAAI,CAAC;;EAEtB,SAAS,CAAC,OAAO,EAAE,SAAS,EAAE,
UAAU,KAAK,EAAE;IAC7C,OAAO,UAAU,CAAC,UAAU,CAAC,SAAS,EAAE,CAAC,EAAE,KAAK,CAAC,C

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1.555 find-up 1.1.2

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1.556 tiny-invariant 1.1.0

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1.557 googleapis-common-protos 1.53.0

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1.559 numpy 1.24.2

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1.562 pytz 2021.1

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1.563 xmltodict 0.12.0

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1.566 pyparsing 2.4.2

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1.567 ecdsa 0.15

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1.568 @csstools/postcss-cascade-layers

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1.570 storage2 0.1.2

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1.572 urllib3 1.26.4

1.572.1 Available under license :

Contributions to the urllib3 project

Creator & Maintainer

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Contributors

In chronological order:

- * victor.vde <<http://code.google.com/u/victor.vde/>>
- * HTTPS patch (which inspired HTTPSConnectionPool)

- * erikcederstrand <<http://code.google.com/u/erikcederstrand/>>
- * NTLM-authenticated HTTPSConnectionPool
- * Basic-authenticated HTTPSConnectionPool (merged into make_headers)

- * niphlod <niphlod@gmail.com>
- * Client-verified SSL certificates for HTTPSConnectionPool
- * Response gzip and deflate encoding support
- * Better unicode support for filepost using StringIO buffers

- * btoconnor <brian@btoconnor.net>
- * Non-multipart encoding for POST requests

- * p.dobrogost <<http://code.google.com/u/@WBRSRIBZDhBFXQB6/>>
- * Code review, PEP8 compliance, benchmark fix

- * kennethreitz <me@kennethreitz.com>
- * Bugfixes, suggestions, Requests integration

- * georgemarshall <<https://github.com/georgemarshall>>
- * Bugfixes, Improvements and Test coverage

- * Thomas Kluyver <thomas@kluyver.me.uk>
- * Python 3 support

- * brandon-rhodes <<http://rhodesmill.org/brandon>>
- * Design review, bugfixes, test coverage.

- * studer <theo.studer@gmail.com>
- * IPv6 url support and test coverage

- * Shivaram Lingamneni <slingamn@cs.stanford.edu>
- * Support for explicitly closing pooled connections

- * hartator <hartator@gmail.com>
- * Corrected multipart behavior for params

- * Thomas Weischuh <thomas@t-8ch.de>
- * Support for TLS SNI
- * API unification of ssl_version/cert_reqs
- * SSL fingerprint and alternative hostname verification
- * Bugfixes in testsuite

- * Sune Kirkeby <mig@ibofobi.dk>
- * Optional SNI-support for Python 2 via PyOpenSSL.

- * Marc Schlaich <marc.schlaich@gmail.com>
- * Various bugfixes and test improvements.

- * Bryce Boe <bbzbryce@gmail.com>
- * Correct six.moves conflict
- * Fixed pickle support of some exceptions

- * Boris Figovsky <boris.figovsky@ravellosystems.com>
- * Allowed to skip SSL hostname verification

- * Cory Benfield <<https://lukasa.co.uk/about/>>
- * Stream method for Response objects.
- * Return native strings in header values.
- * Generate 'Host' header when using proxies.

- * Jason Robinson <jaywink@basshero.org>
- * Add missing WrappedSocket.fileno method in PyOpenSSL

- * Audrius Butkevicius <audrius.butkevicius@elastichosts.com>
- * Fixed a race condition

- * Stanislav Vitkovskiy <stas.vitkovsky@gmail.com>
- * Added HTTPS (CONNECT) proxy support

- * Stephen Holsapple <sholsapp@gmail.com>
- * Added abstraction for granular control of request fields

- * Martin von Gagern <Martin.vGagern@gmx.net>
- * Support for non-ASCII header parameters

- * Kevin Burke <kev@inburke.com> and Pavel Kirichenko <juanych@yandex-team.ru>
- * Support for separate connect and request timeouts

- * Peter Waller <p@pwaller.net>
- * HTTPResponse.tell() for determining amount received over the wire

- * Nipunn Koorapati <nipunn1313@gmail.com>
- * Ignore default ports when comparing hosts for equality

- * Danilo @dbrgn <<https://dbrgn.ch/>>
- * Disabled TLS compression by default on Python 3.2+
- * Disabled TLS compression in pyopenssl contrib module
- * Configurable cipher suites in pyopenssl contrib module

- * Roman Bogorodskiy <roman.bogorodskiy@ericsson.com>

- * Account retries on proxy errors

- * Nicolas Delaby <nicolas.delaby@ezeep.com>
- * Use the platform-specific CA certificate locations

- * Josh Schneier <https://github.com/jschneier>
- * HTTPHeaderDict and associated tests and docs
- * Bugfixes, docs, test coverage

- * Tahia Khan <http://tahia.tk/>
- * Added Timeout examples in docs

- * Arthur Grunseid <https://grunseid.com>
- * source_address support and tests (with https://github.com/bui)

- * Ian Cordasco <graffatcolmingov@gmail.com>
- * PEP8 Compliance and Linting
- * Add ability to pass socket options to an HTTP Connection

- * Erik Tollerud <erik.tollerud@gmail.com>
- * Support for standard library io module.

- * Krishna Prasad <kprasad.iitd@gmail.com>
- * Google App Engine documentation

- * Aaron Meurer <asmeurer@gmail.com>
- * Added Url.url, which unparses a Url

- * Evgeny Kapun <abacabadabacaba@gmail.com>
- * Bugfixes

- * Benjamin Meyer <bm_witness@yahoo.com>
- * Security Warning Documentation update for proper capture

- * Shivan Sornarajah <github@sornars.com>
- * Support for using ConnectionPool and PoolManager as context managers.

- * Alex Gaynor <alex.gaynor@gmail.com>
- * Updates to the default SSL configuration

- * Tomas Tomecek <ttomecek@redhat.com>
- * Implemented generator for getting chunks from chunked responses.

- * tlynn <https://github.com/tlynn>
- * Respect the warning preferences at import.

- * David D. Riddle <ddriddle@illinois.edu>
- * IPv6 bugfixes in testsuite

- * Thea Flowers <magicalgirl@google.com>
- * App Engine environment tests.
- * Documentation re-write.

- * John Krauss <https://github.com/talos>
- * Clues to debugging problems with `cryptography` dependency in docs

- * Disassem <https://github.com/Disassem>
- * Fix pool-default headers not applying for url-encoded requests like GET.

- * James Atherfold <jlatherfold@hotmail.com>
- * Bugfixes relating to cleanup of connections during errors.

- * Christian Pedersen <https://github.com/chripede>
- * IPv6 HTTPS proxy bugfix

- * Jordan Moldow <https://github.com/jmoldow>
- * Fix low-level exceptions leaking from ``HTTPResponse.stream()``.
- * Bugfix for ``ConnectionPool.urlopen(release_conn=False)``.
- * Creation of ``HTTPConnectionPool.ResponseCls``.

- * Predrag Gruevski <https://github.com/obi1kenobi>
- * Made cert digest comparison use a constant-time algorithm.

- * Adam Talsma <https://github.com/a-tal>
- * Bugfix to ca_cert file paths.

- * Evan Meagher <https://evanmeagher.net>
- * Bugfix related to `memoryview` usage in PyOpenSSL adapter

- * John Vandenberg <jayvdb@gmail.com>
- * Python 2.6 fixes; pyflakes and pep8 compliance

- * Andy Caldwell <andy.m.caldwell@googlemail.com>
- * Bugfix related to reusing connections in indeterminate states.

- * Ville Skytt <ville.skytta@iki.fi>
- * Logging efficiency improvements, spelling fixes, Travis config.

- * Shige Takeda <smtakeda@gmail.com>
- * Started Recipes documentation and added a recipe about handling concatenated gzip data in HTTP response

- * Jess Shapiro <jesse@jesseshapiro.net>
- * Various character-encoding fixes/tweaks
- * Disabling IPv6 DNS when IPv6 connections not supported

- * David Foster <http://dafoster.net/>

- * Ensure order of request and response headers are preserved.

- * Jeremy Cline <jeremy@jcline.org>
 - * Added connection pool keys by scheme

- * Aviv Palivoda <palaviv@gmail.com>
 - * History list to Retry object.
 - * HTTPResponse contains the last Retry object.

- * Nate Prewitt <nate.prewitt@gmail.com>
 - * Ensure timeouts are not booleans and greater than zero.
 - * Fixed infinite loop in ``stream`` when amt=None.
 - * Added length_remaining to determine remaining data to be read.
 - * Added enforce_content_length to raise exception when incorrect content-length received.

- * Seth Michael Larson <sethmichaellarson@protonmail.com>
 - * Created selectors backport that supports PEP 475.

- * Alexandre Dias <alex.dias@smarkets.com>
 - * Don't retry on timeout if method not in whitelist

- * Moinuddin Quadri <moin18@gmail.com>
 - * Lazily load idna package

- * Tom White <s6yg1ez3@mail2tor.com>
 - * Made SOCKS handler differentiate socks5h from socks5 and socks4a from socks4.

- * Tim Burke <tim.burke@gmail.com>
 - * Stop buffering entire deflate-encoded responses.

- * Tuukka Mustonen <tuukka.mustonen@gmail.com>
 - * Add counter for status_forcelist retries.

- * Erik Rose <erik@mozilla.com>
 - * Bugfix to pyopenssl vendoring

- * Wolfgang Richter <wolfgang.richter@gmail.com>
 - * Bugfix related to loading full certificate chains with PyOpenSSL backend.

- * Mike Miller <github@mikeage.net>
 - * Logging improvements to include the HTTP(S) port when opening a new connection

- * Ioannis Tziakos <mail@itziakos.gr>
 - * Fix ``util.selectors._fileobj_to_fd`` to accept ``long``.
 - * Update appveyor tox setup to use the 64bit python.

- * Akamai (through Jess Shapiro) <jshapiro@akamai.com>
 - * Ongoing maintenance; 2017-2018

- * Dominique Leuenberger <dimstar@opensuse.org>
- * Minor fixes in the test suite

- * Will Bond <will@wbond.net>
- * Add Python 2.6 support to ``contrib.securetransport``

- * Aleksei Alekseev <alekseev.yeskela@gmail.com>
- * using auth info for socks proxy

- * Chris Wilcox <git@crwilcox.com>
- * Improve contribution guide
- * Add ``HTTPResponse.geturl`` method to provide ``urllib2.urlopen().geturl()`` behavior

- * Bruce Merry <https://www.brucemerry.org.za>
- * Fix leaking exceptions when system calls are interrupted with zero timeout

- * Hugo van Kemenade <https://github.com/hugovk>
- * Drop support for EOL Python 2.6

- * Tim Bell <https://github.com/timb07>
- * Bugfix for responses with Content-Type: message/* logging warnings

- * Justin Bramley <https://github.com/jbramleycl>
- * Add ability to handle multiple Content-Encodings

- * Katsuhiko YOSHIDA <https://github.com/kyoshidajp>
- * Remove Authorization header regardless of case when redirecting to cross-site

- * James Meickle <https://permadeath.com/>
- * Improve handling of Retry-After header

- * Chris Jerdonek <chris.jerdonek@gmail.com>
- * Remove a spurious TypeError from the exception chain inside HTTPConnectionPool._make_request(), also for BaseExceptions.

- * Jorge Lopez Silva <https://github.com/jalopezsilva>
- * Added support for forwarding requests through HTTPS proxies.

- * Benno Rice <benno@jeamland.net>
- * Allow cadata parameter to be passed to underlying ``SSLContext.load_verify_locations()``.

- * Keiichi Kobayashi <abok.1k@gmail.com>
- * Rename VerifiedHTTPSConnection to HTTPSConnection

- * Himanshu Garg <garg_himanshu@outlook.com>
- * DOC & LICENSE Update

* Hod Bin Noon <bin.noon.hod@gmail.com>

* Test improvements

* Chris Olufson <tycarac@gmail.com>

* Fix for connection not being released on HTTP redirect and response not preloaded

* [Bastiaan Bakker] <https://github.com/bastiaanb>

* Support for logging session keys via environment variable ``SSLKEYLOGFILE`` (Python 3.8+)

* [Ezzeri Esa] <https://github.com/savarin>

* Ports and extends on types from typedshed

* [Your name or handle] <[email or website]>

* [Brief summary of your changes]

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1.573 moto 2.2.1

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1.574 pydantic 1.8.2

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1.575 Iodash-isobject 2.4.1

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1.576 s3transfer 0.3.0

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1.580 openapi-spec-validator 0.2.9

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Name: LAPACK

Files: .libs/libopenb*.so

Description: bundled in OpenBLAS

Availability: <https://github.com/xianyi/OpenBLAS/>

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Name: GCC runtime library

Files: .libs/libgfortran*.so

Description: dynamically linked to files compiled with gcc

Availability: <https://gcc.gnu.org/viewcvs/gcc/>

License: GPLv3 + runtime exception

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Version 3.1, 31 March 2009

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```
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This binary distribution of SciPy also bundles the following software:

Name: OpenBLAS
Files: extra-dll\libopenb*.dll
Description: bundled as a dynamically linked library

Availability: <https://github.com/xianyi/OpenBLAS/>

License: 3-clause BSD

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Name: LAPACK

Files: extra-dll\libopenb*.dll

Description: bundled in OpenBLAS

Availability: <https://github.com/xianyi/OpenBLAS/>

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Name: GCC runtime library

Files: extra-dll*.dll

Description: statically linked, in DLL files compiled with gfortran only

Availability: <https://gcc.gnu.org/viewcvs/gcc/>

License: GPLv3 + runtime exception

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Version 3.1, 31 March 2009

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prehistoric

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Name: L-BFGS-B

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Name: LAPJVsp

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Name: amngo

Files: `benchmarks/benchmarks/go_benchmark_functions/*.py`

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Functions for testing global optimizers, forked from the AMPGO project, <https://code.google.com/archive/p/amngo>

Name: pybind11

Files: no source files are included, however pybind11 binary artifacts are included with every binary build of SciPy.

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----- Forwarded message -----

From: Agner Fog <agner@agner.org>

Date: Wed, Jul 22, 2020 at 8:54 PM

Subject: Re: Add BiasedUrn to SciPy?

To: Matt Haberland <mhaberla@calpoly.edu>

Cc: Warren Weckesser <warren.weckesser@gmail.com>

Dear Matt The C++ code for these distributions without binding to the R project are available here:

<https://www.agner.org/random/stocc.zip>

You have my permission to use it in SciPy under the new BSD license.

Best regards,

Agner Fog

On 22/07/2020 17.05, Matt Haberland wrote:

Hi Agner, I'm a maintainer of the Python scientific computing library SciPy, and I'm working on improving the capabilities of our statistics subpackage `scipy.stats`. We'd like to add both Fisher's and Wallenius' noncentral hypergeometric distributions, but these look quite challenging to implement. We found your `BiasedUrn` package, and we'd love to wrap it, but we can't include GPL-3 licensed code under our BSD-new license. Would you consider re-licensing `BiasedUrn` under a more permissive license, such as `BSD-new` or `MIT`, so we can include it in `SciPy`?

Thank you for considering it!

Matt

--

Matt Haberland

Assistant Professor

BioResource and Agricultural Engineering

08A-3K, Cal Poly

1.583 pyasn1 0.4.8

1.583.1 Available under license :

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* /opt/cola/permits/1664030591_1683225347.7188127/0/etingof-pyasn1-v0-4-8-0-g70c1bbd-1-tar-gz/etingof-pyasn1-70c1bbd/tests/codec/cer/___main___py

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```
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```

```
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```

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ASN.1 library for Python

```
=====
```

```
.. toctree::
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```

Abstract Syntax Notation One (ASN.1

http://en.wikipedia.org/wiki/Abstract_Syntax_Notation_1x) is a technology for exchanging structured data in a universally understood, hardware agnostic way. Many industrial, security and telephony applications heavily rely on ASN.1.

The `pyasn1` <https://pypi.org/project/pyasn1/> library implements ASN.1 support in pure-Python.

What is ASN.1

```
-----
```

ASN.1 is a large, arguably over-engineered and extremely old data modelling and serialisation tool. It is probably among the first serialisation protocols in the history of computer science and technology.

ASN.1 started its life over 30 years ago as a serialisation mechanism for the first electronic mail (known as X.400). Later on it was split off the e-mail application and became a stand-alone tech still being actively supported by its designers and widely used in industry and technology.

Since then ASN.1 is sort of haunted by its relations with the OSI model -- the first, unsuccessful, version of the Internet. You can read many interesting [discussions https://news.ycombinator.com/item?id=8871453](https://news.ycombinator.com/item?id=8871453) on that topic.

In the following years, generations of software engineers tackled the serialisation problem many times. We can see that in Google's `ProtoBuffers` <https://developers.google.com/protocol-buffers/>

or `FlatBuffers` <<https://google.github.io/flatbuffers/>>`, for example. Interestingly, many new takes on binary protocol design do not depart far from ASN.1 from technical perspective. It's more of a matter of striking a balance between processing overhead, wire format overhead and human readability.

Looking at what ASN.1 has to offer, it has three loosely coupled parts:

- * Data types: the standard introduces a collection of basic data types (integers, bits, strings, arrays and records) that can be used for describing arbitrarily complex, nested data structures.
- * Serialisation protocols: the above data structures could be converted into a series of octets for storage or transmission over the wire as well as recovered back into their structured form. The system is fully agnostic to hardware architectures differences.
- * Schema language: ASN.1 data structures could be described in terms of a schema language for ASN.1 compiler to turn it into platform-specific implementation.

ASN.1 applications

Being an old and generally successful standard, ASN.1 is widely adopted for many uses. To give you an example, these technologies use ASN.1 for their data exchange needs:

- * Signaling standards for the public switched telephone network (SS7 family)
- * Network management standards (SNMP, CMIP)
- * Directory standards (X.500 family, LDAP)
- * Public Key Infrastructure standards (X.509, etc.)
- * PBX control (CSTA)
- * IP-based Videoconferencing (H.323 family)
- * Biometrics (BIP, CBEFF, ACBio)
- * Intelligent transportation (SAE J2735)
- * Cellular telephony (GSM, GPRS/EDGE, UMTS, LTE)

ASN.1 gotchas

Apparently, ASN.1 is hard to implement properly. Quality open-source ASN.1 tools are rare, but ad-hoc implementations are numerous. Judging from the `statistics` <<http://cve.mitre.org/cgi-bin/cvekey.cgi?keyword=ASN.1>>` on discovered security vulnerabilities, many people have implemented ASN.1 parsers and oftentimes fell victim to its edge cases.

On the bright side, ASN.1 has been around for a long time, it is well understood

and security reviewed.

Documentation

```
.. toctree::  
   :maxdepth: 2
```

/pyasn1/contents

Use case

```
.. toctree::  
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```

/example-use-case

Download & Install

```
.. toctree::  
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```

/download

Changes

All changes and release history is maintained in changelog. There you could also download the latest unreleased pyasn1 tarball containing the latest fixes and improvements.

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```

/changelog

License

The PyASN1 software is distributed under 2-clause BSD License.

```
.. toctree::  
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```

/license

Getting help

Please, file your `issues` <<https://github.com/etingof/pyasn1/issues>>`_`
and `PRs` <<https://github.com/etingof/pyasn1/pulls>>`_` at GitHub.
Alternatively, you could ask for help at
`Stack Overflow` <<http://stackoverflow.com/questions/tagged/pyasn1>>`_`
or search
`pyasn1-users` <<https://lists.sourceforge.net/lists/listinfo/pyasn1-users>>`_`
mailing list archive.

Books on ASN.1

The pyasn1 implementation is largely based on reading up the following awesome books:

- * `ASN.1 - Communication between heterogeneous systems` <<http://www.oss.com/asn1/dubuisson.html>>`_` by Olivier Dubuisson
- * `ASN.1 Complete` <<http://www.oss.com/asn1/resources/books-whitepapers-pubs/larmouth-asn1-book.pdf>>`_` by Prof John Larmouth

Here you can get the official standards which is hard to read:

- * `ITU standards` <<http://www.itu.int/ITU-T/studygroups/com17/languages/X.680-X.693-0207w.zip>>`_`

On the other end of the readability spectrum, here is a quick and sweet write up:

- * `A Layman's Guide to a Subset of ASN.1, BER, and DER` <<ftp://ftp.rsasecurity.com/pub/pkcs/ascii/layman.asc>>`_` by Burton S. Kaliski

If you are working with ASN.1, we'd highly recommend reading a proper book on the subject.

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ASN.1 library for Python

[![PyPI](<https://img.shields.io/pypi/v/pyasn1.svg?maxAge=2592000>)](<https://pypi.org/project/pyasn1>)
[![Python Versions](<https://img.shields.io/pypi/pyversions/pyasn1.svg>)](<https://pypi.org/project/pyasn1/>)
[![Build status](<https://travis-ci.org/etingof/pyasn1.svg?branch=master>)](<https://secure.travis-ci.org/etingof/pyasn1>)
[![Coverage Status](<https://img.shields.io/codecov/c/github/etingof/pyasn1.svg>)](<https://codecov.io/github/etingof/pyasn1>)
[![GitHub license](<https://img.shields.io/badge/license-BSD-blue.svg>)](<https://raw.githubusercontent.com/etingof/pyasn1/master/LICENSE.txt>)

This is a free and open source implementation of ASN.1 types and codecs as a Python package. It has been first written to support particular protocol (SNMP) but then generalized to be suitable for a wide range of protocols based on

[ASN.1 specification](https://www.itu.int/rec/dologin_pub.asp?lang=e&id=T-REC-X.208-198811-W!!PDF-E&type=items).

Features

- * Generic implementation of ASN.1 types (X.208)
- * Standards compliant BER/CER/DER codecs
- * Dumps/loads ASN.1 structures from Python types
- * 100% Python, works with Python 2.4 up to Python 3.7
- * MT-safe
- * Contributed ASN.1 compiler [Asn1ate](<https://github.com/kimgr/asn1ate>)

Why using pyasn1

ASN.1 solves the data serialisation problem. This solution was designed long ago by the wise Ancients. Back then, they did not have the luxury of wasting bits. That is why ASN.1 is designed to serialise data structures of unbounded complexity into something compact and efficient when it comes to processing the data.

That probably explains why many network protocols and file formats still rely on the 30+ years old technology. Including a number of high-profile Internet protocols and file formats.

Quite a number of books cover the topic of ASN.1.

[Communication between heterogeneous systems](<http://www.oss.com/asn1/dubuisson.html>) by Olivier Dubuisson is one of those high quality books freely available on the Internet.

The pyasn1 package is designed to help Python programmers tackling network protocols and file formats at the comfort of their Python prompt. The tool struggles to capture all aspects of a rather complicated ASN.1 system and to represent it on the Python terms.

How to use pyasn1

With pyasn1 you can build Python objects from ASN.1 data structures. For example, the following ASN.1 data structure:

```

```bash
Record ::= SEQUENCE {
 id INTEGER,
 room [0] INTEGER OPTIONAL,
 house [1] INTEGER DEFAULT 0
}
```

```

Could be expressed in pyasn1 like this:

```

```python
class Record(Sequence):
 componentType = NamedTypes(
 NamedType('id', Integer()),
 OptionalNamedType(
 'room', Integer().subtype(
 implicitTag=Tag(tagClassContext, tagFormatSimple, 0)
)
),
 DefaultedNamedType(
 'house', Integer(0).subtype(
 implicitTag=Tag(tagClassContext, tagFormatSimple, 1)
)
)
)
)
)
)
```

```

It is in the spirit of ASN.1 to take abstract data description and turn it into a programming language specific form. Once you have your ASN.1 data structure expressed in Python, you can use it along the lines of similar Python type (e.g. ASN.1 `SET` is similar to Python `dict`, `SET OF` to `list`):

```

```python
>>> record = Record()
>>> record['id'] = 123
>>> record['room'] = 321
>>> str(record)
Record:
id=123
room=321
>>>
```

```

Part of the power of ASN.1 comes from its serialisation features. You can serialise your data structure and send it over the network.

```

```python

```

```

>>> from pyasn1.codec.der.encoder import encode
>>> substrate = encode(record)
>>> hexdump(substrate)
00000: 30 07 02 01 7B 80 02 01 41
...

```

Conversely, you can turn serialised ASN.1 content, as received from network or read from a file, into a Python object which you can introspect, modify, encode and send back.

```

```python
>>> from pyasn1.codec.der.decoder import decode
>>> received_record, rest_of_substrate = decode(substrate, asn1Spec=Record())
>>>
>>> for field in received_record:
>>>     print('{} is {}'.format(field, received_record[field]))
id is 123
room is 321
house is 0
>>>
>>> record == received_record
True
>>> received_record.update(room=123)
>>> substrate = encode(received_record)
>>> hexdump(substrate)
00000: 30 06 02 01 7B 80 01 7B
...

```

The pyasn1 classes struggle to emulate their Python prototypes (e.g. int, list, dict etc.). But ASN.1 types exhibit more complicated behaviour. To make life easier for a Pythonista, they can turn their pyasn1 classes into Python built-ins:

```

```python
>>> from pyasn1.codec.native.encoder import encode
>>> encode(record)
{'id': 123, 'room': 321, 'house': 0}
...

```

Or vice-versa -- you can initialize an ASN.1 structure from a tree of Python objects:

```

```python
>>> from pyasn1.codec.native.decoder import decode
>>> record = decode({'id': 123, 'room': 321, 'house': 0}, asn1Spec=Record())
>>> str(record)
Record:
id=123

```

room=321

>>>

...

With ASN.1 design, serialisation codecs are decoupled from data objects, so you could turn every single ASN.1 object into many different serialised forms. As of this moment, pyasn1 supports BER, DER, CER and Python built-ins codecs. The extremely compact PER encoding is expected to be introduced in the upcoming pyasn1 release.

More information on pyasn1 APIs can be found in the [documentation](<http://snmplabs.com/pyasn1/>), compiled ASN.1 modules for different protocols and file formats could be found in the pyasn1-modules [repo](<https://github.com/etingof/pyasn1-modules>).

How to get pyasn1

The pyasn1 package is distributed under terms and conditions of 2-clause BSD [license](<http://snmplabs.com/pyasn1/license.html>). Source code is freely available as a GitHub [repo](<https://github.com/etingof/pyasn1>).

You could `pip install pyasn1` or download it from [PyPI](<https://pypi.org/project/pyasn1>).

If something does not work as expected, [open an issue](<https://github.com/etingof/pyasn1/issues>) at GitHub or post your question [on Stack Overflow](<https://stackoverflow.com/questions/ask>) or try browsing pyasn1 [mailing list archives](<https://sourceforge.net/p/pyasn1/mailman/pyasn1-users/>).

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1.584 whatwg-fetch 3.0.0

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1.585 react-inspector 5.1.1

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1.588 cachetools 5.0.0

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1.591 phonenumber 8.12.44

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1.593 lodash-shimkeys 2.4.1

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1.594 fast-json-stable-stringify 2.0.0

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1.595 react-popover-tooltip 3.1.1

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1.596 postcss-custom-media 8.0.2

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1.597 grpcio 1.50.0

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1.605 ruamel-yaml-clib 0.1.2

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=====
click-contrib
=====

As the userbase of Click grows, more and more major feature requests pop up in Click's bugtracker. As reasonable as it may be for those features to be bundled with Click instead of being a standalone project, many of those requested features are either highly experimental or have unproven practical use, while potentially being a burden to maintain.

This is why click-contrib_ exists. The GitHub organization is a collection of possibly experimental third-party packages whose featureset does not belong into Click, but also a playground for major features that may be added to Click in the future. It is also meant to coordinate and concentrate effort on writing third-party extensions for Click, and to ease the effort of searching for such extensions. In that sense it could be described as a low-maintenance alternative to extension repositories of other frameworks.

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Examples of behavior that contributes to creating a positive environment include:

* Using welcoming and inclusive language

- * Being respectful of differing viewpoints and experiences
- * Gracefully accepting constructive criticism
- * Focusing on what is best for the community
- * Showing empathy towards other community members

Examples of unacceptable behavior by participants include:

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- * Trolling, insulting/derogatory comments, and personal or political attacks
- * Public or private harassment
- * Publishing others' private information, such as a physical or electronic address, without explicit permission
- * Other conduct which could reasonably be considered inappropriate in a professional setting

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1.613 Iodash-objecttypes 2.4.1

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1.621 python-certifi 2020.4.5.2

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This package contains a modified version of ca-bundle.crt:

ca-bundle.crt -- Bundle of CA Root Certificates

Certificate data from Mozilla as of: Thu Nov 3 19:04:19 2011#

This is a bundle of X.509 certificates of public Certificate Authorities (CA). These were automatically extracted from Mozilla's root certificates file (certdata.txt). This file can be found in the mozilla source tree:

<http://mxr.mozilla.org/mozilla/source/security/nss/lib/ckfw/builtins/certdata.txt?raw=1#>

It contains the certificates in PEM format and therefore can be directly used with curl / libcurl / php_curl, or with an Apache+mod_ssl webserver for SSL client authentication. Just configure this file as the SSLCACertificateFile.#

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@(#) \$RCSfile: certdata.txt,v \$ \$Revision: 1.80 \$ \$Date: 2011/11/03 15:11:58 \$

1.622 aiohttp 3.7.4.post0

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jar/py4j/commands/ShutdownGatewayServerCommand.java

* /opt/cola/permits/1664030088_1683228703.5675595/0/py4j-0-10-9-3-sources-3-jar/py4j/GatewayConnection.java

* /opt/cola/permits/1664030088_1683228703.5675595/0/py4j-0-10-9-3-sources-3-jar/py4j/Gateway.java

* /opt/cola/permits/1664030088_1683228703.5675595/0/py4j-0-10-9-3-sources-3-

jar/py4j/commands/ReflectionCommand.java

* /opt/cola/permits/1664030088_1683228703.5675595/0/py4j-0-10-9-3-sources-3-jar/py4j/GatewayServer.java

* /opt/cola/permits/1664030088_1683228703.5675595/0/py4j-0-10-9-3-sources-3-jar/py4j/NetworkUtil.java
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* /opt/cola/permits/1664030088_1683228703.5675595/0/py4j-0-10-9-3-sources-3-jar/py4j/commands/StreamCommand.java
* /opt/cola/permits/1664030088_1683228703.5675595/0/py4j-0-10-9-3-sources-3-jar/py4j/JavaServer.java
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* /opt/cola/permits/1664030088_1683228703.5675595/0/py4j-0-10-9-3-sources-3-jar/py4j/reflection/MethodInvoker.java
* /opt/cola/permits/1664030088_1683228703.5675595/0/py4j-0-10-9-3-sources-3-jar/py4j/DefaultApplication.java
* /opt/cola/permits/1664030088_1683228703.5675595/0/py4j-0-10-9-3-sources-3-jar/py4j/Py4JNetworkException.java
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* /opt/cola/permits/1664030088_1683228703.5675595/0/py4j-0-10-9-3-sources-3-jar/py4j/commands/AuthCommand.java
* /opt/cola/permits/1664030088_1683228703.5675595/0/py4j-0-10-9-3-sources-3-jar/py4j/CallbackConnection.java
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* /opt/cola/permits/1664030088_1683228703.5675595/0/py4j-0-10-9-3-sources-3-jar/py4j/reflection/LRUCache.java
* /opt/cola/permits/1664030088_1683228703.5675595/0/py4j-0-10-9-3-sources-3-jar/py4j/reflection/MethodDescriptor.java
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* /opt/cola/permits/1664030088_1683228703.5675595/0/py4j-0-10-9-3-sources-3-jar/py4j/ClientServer.java
* /opt/cola/permits/1664030088_1683228703.5675595/0/py4j-0-10-9-3-sources-3-jar/py4j/Py4JServerConnection.java
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* /opt/cola/permits/1664030088_1683228703.5675595/0/py4j-0-10-9-3-sources-3-jar/py4j/model/HelpPageGenerator.java
* /opt/cola/permits/1664030088_1683228703.5675595/0/py4j-0-10-9-3-sources-3-jar/py4j/Py4JJavaException.java
* /opt/cola/permits/1664030088_1683228703.5675595/0/py4j-0-10-9-3-sources-3-jar/py4j/reflection/ReflectionUtil.java
* /opt/cola/permits/1664030088_1683228703.5675595/0/py4j-0-10-9-3-sources-3-jar/py4j/reflection/TypeConverter.java
* /opt/cola/permits/1664030088_1683228703.5675595/0/py4j-0-10-9-3-sources-3-jar/py4j/reflection/ClassLoadingStrategy.java
* /opt/cola/permits/1664030088_1683228703.5675595/0/py4j-0-10-9-3-sources-3-jar/py4j/DefaultGatewayServerListener.java

* /opt/cola/permits/1664030088_1683228703.5675595/0/py4j-0-10-9-3-sources-3-jar/py4j/JVMView.java
* /opt/cola/permits/1664030088_1683228703.5675595/0/py4j-0-10-9-3-sources-3-jar/py4j/commands/ListCommand.java
* /opt/cola/permits/1664030088_1683228703.5675595/0/py4j-0-10-9-3-sources-3-jar/py4j/commands/AbstractCommand.java
* /opt/cola/permits/1664030088_1683228703.5675595/0/py4j-0-10-9-3-sources-3-jar/py4j/Py4JJavaServer.java
* /opt/cola/permits/1664030088_1683228703.5675595/0/py4j-0-10-9-3-sources-3-jar/py4j/CallbackClient.java
* /opt/cola/permits/1664030088_1683228703.5675595/0/py4j-0-10-9-3-sources-3-jar/py4j/commands/ArrayCommand.java
* /opt/cola/permits/1664030088_1683228703.5675595/0/py4j-0-10-9-3-sources-3-jar/py4j/model/Py4JClass.java
* /opt/cola/permits/1664030088_1683228703.5675595/0/py4j-0-10-9-3-sources-3-jar/py4j/commands/ConstructorCommand.java
* /opt/cola/permits/1664030088_1683228703.5675595/0/py4j-0-10-9-3-sources-3-jar/py4j/model/Py4JField.java
* /opt/cola/permits/1664030088_1683228703.5675595/0/py4j-0-10-9-3-sources-3-jar/py4j/commands/DirCommand.java
* /opt/cola/permits/1664030088_1683228703.5675595/0/py4j-0-10-9-3-sources-3-jar/py4j/ClientServerConnection.java
* /opt/cola/permits/1664030088_1683228703.5675595/0/py4j-0-10-9-3-sources-3-jar/py4j/reflection/PythonProxyHandler.java
* /opt/cola/permits/1664030088_1683228703.5675595/0/py4j-0-10-9-3-sources-3-jar/py4j/reflection/RootClassLoadingStrategy.java
* /opt/cola/permits/1664030088_1683228703.5675595/0/py4j-0-10-9-3-sources-3-jar/py4j/Py4JPythonClientPerThread.java
* /opt/cola/permits/1664030088_1683228703.5675595/0/py4j-0-10-9-3-sources-3-jar/py4j/commands/ExceptionCommand.java
* /opt/cola/permits/1664030088_1683228703.5675595/0/py4j-0-10-9-3-sources-3-jar/py4j/GatewayServerListener.java
* /opt/cola/permits/1664030088_1683228703.5675595/0/py4j-0-10-9-3-sources-3-jar/py4j/commands/CallCommand.java
* /opt/cola/permits/1664030088_1683228703.5675595/0/py4j-0-10-9-3-sources-3-jar/py4j/Py4JPythonClient.java
* /opt/cola/permits/1664030088_1683228703.5675595/0/py4j-0-10-9-3-sources-3-jar/py4j/model/Py4JMember.java
* /opt/cola/permits/1664030088_1683228703.5675595/0/py4j-0-10-9-3-sources-3-jar/py4j/commands/MemoryCommand.java
* /opt/cola/permits/1664030088_1683228703.5675595/0/py4j-0-10-9-3-sources-3-jar/py4j/reflection/CurrentThreadClassLoadingStrategy.java
* /opt/cola/permits/1664030088_1683228703.5675595/0/py4j-0-10-9-3-sources-3-jar/py4j/commands/HelpPageCommand.java
* /opt/cola/permits/1664030088_1683228703.5675595/0/py4j-0-10-9-3-sources-3-jar/py4j/model/Py4JMethod.java
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*****/

/**

* A very fast and memory efficient class to encode and decode to and from
 * BASE64 in full accordance with RFC 2045.

 *

 * On Windows XP sp1 with 1.4.2_04 and later ;), this encoder and decoder is
 * about 10 times faster on small arrays (10 - 1000 bytes) and 2-3 times as fast
 * on larger arrays (10000 - 1000000 bytes) compared to
 * <code>sun.misc.Encoder()/Decoder()</code>.

 *

 * On byte arrays the encoder is about 20% faster than Jakarta Commons Base64
 * Codec for encode and about 50% faster for decoding large arrays. This
 * implementation is about twice as fast on very small arrays (< 30 bytes). If
 * source/destination is a <code>String</code> this version is about three times
 * as fast due to the fact that the Commons Codec result has to be recoded to a
 * <code>String</code> from <code>byte[]</code>, which is very expensive.

 *

 * This encode/decode algorithm doesn't create any temporary arrays as many
 * other codecs do, it only allocates the resulting array. This produces less
 * garbage and it is possible to handle arrays twice as large as algorithms that
 * create a temporary array. (E.g. Jakarta Commons Codec). It is unknown whether
 * Sun's <code>sun.misc.Encoder()/Decoder()</code> produce temporary arrays but
 * since performance is quite low it probably does.

 *

 * The encoder produces the same output as the Sun one except that the Sun's

* encoder appends a trailing line separator if the last character isn't a pad.
 * Unclear why but it only adds to the length and is probably a side effect.
 * Both are in conformance with RFC 2045 though.

 * Commons codec seem to always att a trailing line separator.

 *

 *
 * Note! The encode/decode method pairs (types) come in three versions
 * with the exact same algorithm and thus a lot of code redundancy. This
 * is to not create any temporary arrays for transcoding to/from different
 * format types. The methods not used can simply be commented out.

 *

 *
 * There is also a "fast" version of all decode methods that works the same way
 * as the normal ones, but har a few demands on the decoded input. Normally
 * though, these fast verions should be used if the source if the input is known
 * and it hasn't bee tampered with.

 *

 *
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 * base64 @ miginfocom . com.
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 *

* @version 2.2
* @author Mikael Grev Date: 2004-aug-02 Time: 11:31:11
*/

Found in path(s):

* /opt/cola/permits/1664030088_1683228703.5675595/0/py4j-0-10-9-3-sources-3-jar/py4j/Base64.java

1.625 bson 0.5.8

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1.626 opentelemetry-instrumentation 0.27b0

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1.629 urllib3 1.25.9

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Contributions to the urllib3 project

Creator & Maintainer

* Andrey Petrov <andrey.petrov@shazow.net>

Contributors

In chronological order:

* [victor.vde](http://code.google.com/u/victor.vde/) <<http://code.google.com/u/victor.vde/>>

* HTTPS patch (which inspired HTTPSConnectionPool)

* [erikcederstrand](http://code.google.com/u/erikcederstrand/) <<http://code.google.com/u/erikcederstrand/>>

* NTLM-authenticated HTTPSConnectionPool

* Basic-authenticated HTTPSConnectionPool (merged into make_headers)

- * niphlod <niphlod@gmail.com>
- * Client-verified SSL certificates for HTTPSConnectionPool
- * Response gzip and deflate encoding support
- * Better unicode support for filepost using StringIO buffers

- * btoconnor <brian@btoconnor.net>
- * Non-multipart encoding for POST requests

- * p.dobrogost <http://code.google.com/u/@WBRSRIBZDhBFXQB6/>
- * Code review, PEP8 compliance, benchmark fix

- * kennethreitz <me@kennethreitz.com>
- * Bugfixes, suggestions, Requests integration

- * georgemarshall <https://github.com/georgemarshall>
- * Bugfixes, Improvements and Test coverage

- * Thomas Kluyver <thomas@kluyver.me.uk>
- * Python 3 support

- * brandon-rhodes <http://rhodesmill.org/brandon>
- * Design review, bugfixes, test coverage.

- * studer <theo.studer@gmail.com>
- * IPv6 url support and test coverage

- * Shivaram Lingamneni <slingamn@cs.stanford.edu>
- * Support for explicitly closing pooled connections

- * hartator <hartator@gmail.com>
- * Corrected multipart behavior for params

- * Thomas Weischuh <thomas@t-8ch.de>
- * Support for TLS SNI
- * API unification of ssl_version/cert_reqs
- * SSL fingerprint and alternative hostname verification
- * Bugfixes in testsuite

- * Sune Kirkeby <mig@ibofobi.dk>
- * Optional SNI-support for Python 2 via PyOpenSSL.

- * Marc Schlaich <marc.schlaich@gmail.com>
- * Various bugfixes and test improvements.

- * Bryce Boe <bbzbryce@gmail.com>
- * Correct six.moves conflict
- * Fixed pickle support of some exceptions

- * Boris Figovsky <boris.figovsky@ravello systems.com>
- * Allowed to skip SSL hostname verification

- * Cory Benfield <https://lukasa.co.uk/about/>
- * Stream method for Response objects.
- * Return native strings in header values.
- * Generate 'Host' header when using proxies.

- * Jason Robinson <jaywink@basshero.org>
- * Add missing WrappedSocket.fileno method in PyOpenSSL

- * Audrius Butkevicius <audrius.butkevicius@elastic hosts.com>
- * Fixed a race condition

- * Stanislav Vitkovskiy <stas.vitkovsky@gmail.com>
- * Added HTTPS (CONNECT) proxy support

- * Stephen Holsapple <sholsapp@gmail.com>
- * Added abstraction for granular control of request fields

- * Martin von Gagern <Martin.vGagern@gmx.net>
- * Support for non-ASCII header parameters

- * Kevin Burke <kev@inburke.com> and Pavel Kirichenko <juanych@yandex-team.ru>
- * Support for separate connect and request timeouts

- * Peter Waller <p@pwaller.net>
- * HTTPResponse.tell() for determining amount received over the wire

- * Nipunn Koorapati <nipunn1313@gmail.com>
- * Ignore default ports when comparing hosts for equality

- * Danilo @dbrgn <https://dbrgn.ch/>
- * Disabled TLS compression by default on Python 3.2+
- * Disabled TLS compression in pyopenssl contrib module
- * Configurable cipher suites in pyopenssl contrib module

- * Roman Bogorodskiy <roman.bogorodskiy@ericsson.com>
- * Account retries on proxy errors

- * Nicolas Delaby <nicolas.delaby@ezeep.com>
- * Use the platform-specific CA certificate locations

- * Josh Schneier <https://github.com/jschneier>
- * HTTPHeaderDict and associated tests and docs
- * Bugfixes, docs, test coverage

- * Tahia Khan <http://tahia.tk/>

- * Added Timeout examples in docs

- * Arthur Grunseid <<https://grunseid.com>>
- * source_address support and tests (with <https://github.com/bui>)

- * Ian Cordasco <graffatcolmingov@gmail.com>
- * PEP8 Compliance and Linting
- * Add ability to pass socket options to an HTTP Connection

- * Erik Tollerud <erik.tollerud@gmail.com>
- * Support for standard library io module.

- * Krishna Prasad <kprasad.iitd@gmail.com>
- * Google App Engine documentation

- * Aaron Meurer <asmeurer@gmail.com>
- * Added Url.url, which unparses a Url

- * Evgeny Kapun <abacabadabacaba@gmail.com>
- * Bugfixes

- * Benjamin Meyer <bm_witness@yahoo.com>
- * Security Warning Documentation update for proper capture

- * Shivan Sornarajah <github@sornars.com>
- * Support for using ConnectionPool and PoolManager as context managers.

- * Alex Gaynor <alex.gaynor@gmail.com>
- * Updates to the default SSL configuration

- * Tomas Tomecek <ttomecek@redhat.com>
- * Implemented generator for getting chunks from chunked responses.

- * tlynn <<https://github.com/tlynn>>
- * Respect the warning preferences at import.

- * David D. Riddle <ddriddle@illinois.edu>
- * IPv6 bugfixes in testsuite

- * Thea Flowers <magicalgirl@google.com>
- * App Engine environment tests.
- * Documentation re-write.

- * John Krauss <<https://github.com/talos>>
- * Clues to debugging problems with `cryptography` dependency in docs

- * Disassem <<https://github.com/Disassem>>
- * Fix pool-default headers not applying for url-encoded requests like GET.

- * James Atherfold <jlatherfold@hotmail.com>
- * Bugfixes relating to cleanup of connections during errors.

- * Christian Pedersen <https://github.com/chripede>
- * IPv6 HTTPS proxy bugfix

- * Jordan Moldow <https://github.com/jmoldow>
- * Fix low-level exceptions leaking from ``HTTPResponse.stream()``.
- * Bugfix for ``ConnectionPool.urlopen(release_conn=False)``.
- * Creation of ``HTTPConnectionPool.ResponseCls``.

- * Predrag Gruevski <https://github.com/obi1kenobi>
- * Made cert digest comparison use a constant-time algorithm.

- * Adam Talsma <https://github.com/a-tal>
- * Bugfix to ca_cert file paths.

- * Evan Meagher <https://evanmeagher.net>
- * Bugfix related to `memoryview` usage in PyOpenSSL adapter

- * John Vandenberg <jayvdb@gmail.com>
- * Python 2.6 fixes; pyflakes and pep8 compliance

- * Andy Caldwell <andy.m.caldwell@googlemail.com>
- * Bugfix related to reusing connections in indeterminate states.

- * Ville Skytt <ville.skytta@iki.fi>
- * Logging efficiency improvements, spelling fixes, Travis config.

- * Shige Takeda <smtakeda@gmail.com>
- * Started Recipes documentation and added a recipe about handling concatenated gzip data in HTTP response

- * Jess Shapiro <jesse@jesseshapiro.net>
- * Various character-encoding fixes/tweaks
- * Disabling IPv6 DNS when IPv6 connections not supported

- * David Foster <http://dafoster.net/>
- * Ensure order of request and response headers are preserved.

- * Jeremy Cline <jeremy@jcline.org>
- * Added connection pool keys by scheme

- * Aviv Palivoda <palaviv@gmail.com>
- * History list to Retry object.
- * HTTPResponse contains the last Retry object.

- * Nate Prewitt <nate.prewitt@gmail.com>

- * Ensure timeouts are not booleans and greater than zero.
- * Fixed infinite loop in ``stream`` when amt=None.
- * Added length_remaining to determine remaining data to be read.
- * Added enforce_content_length to raise exception when incorrect content-length received.

- * Seth Michael Larson <sethmichaellarson@protonmail.com>
- * Created selectors backport that supports PEP 475.

- * Alexandre Dias <alex.dias@smarkets.com>
- * Don't retry on timeout if method not in whitelist

- * Moinuddin Quadri <moin18@gmail.com>
- * Lazily load idna package

- * Tom White <s6yglez3@mail2tor.com>
- * Made SOCKS handler differentiate socks5h from socks5 and socks4a from socks4.

- * Tim Burke <tim.burke@gmail.com>
- * Stop buffering entire deflate-encoded responses.

- * Tuukka Mustonen <tuukka.mustonen@gmail.com>
- * Add counter for status_forcelist retries.

- * Erik Rose <erik@mozilla.com>
- * Bugfix to pyopenssl vendoring

- * Wolfgang Richter <wolfgang.richter@gmail.com>
- * Bugfix related to loading full certificate chains with PyOpenSSL backend.

- * Mike Miller <github@mikeage.net>
- * Logging improvements to include the HTTP(S) port when opening a new connection

- * Ioannis Tziakos <mail@itziakos.gr>
- * Fix ``util.selectors._fileobj_to_fd`` to accept ``long``.
- * Update appveyor tox setup to use the 64bit python.

- * Akamai (through Jess Shapiro) <jshapiro@akamai.com>
- * Ongoing maintenance; 2017-2018

- * Dominique Leuenberger <dimstar@opensuse.org>
- * Minor fixes in the test suite

- * Will Bond <will@wbond.net>
- * Add Python 2.6 support to ``contrib.securetransport``

- * Aleksei Alekseev <alekseev.yeskela@gmail.com>
- * using auth info for socks proxy

- * Chris Wilcox <git@crwilcox.com>
- * Improve contribution guide
- * Add ``HTTPResponse.geturl`` method to provide ``urllib2.urlopen().geturl()`` behavior

- * Bruce Merry <https://www.brucemerry.org.za>
- * Fix leaking exceptions when system calls are interrupted with zero timeout

- * Hugo van Kemenade <https://github.com/hugovk>
- * Drop support for EOL Python 2.6

- * Tim Bell <https://github.com/timb07>
- * Bugfix for responses with Content-Type: message/* logging warnings

- * Justin Bramley <https://github.com/jbramleycl>
- * Add ability to handle multiple Content-Encodings

- * Katsuhiko YOSHIDA <https://github.com/kyoshidajp>
- * Remove Authorization header regardless of case when redirecting to cross-site

- * James Meickle <https://permadeath.com/>
- * Improve handling of Retry-After header

- * Chris Jerdonek <chris.jerdonek@gmail.com>
- * Remove a spurious TypeError from the exception chain inside HTTPConnectionPool._make_request(), also for BaseExceptions.

- * Jorge Lopez Silva <https://github.com/jalopezsilva>
- * Added support for forwarding requests through HTTPS proxies.

- * Benno Rice <benno@jeamland.net>
- * Allow cadata parameter to be passed to underlying ``SSLContext.load_verify_locations()``.

- * Keiichi Kobayashi <abok.1k@gmail.com>
- * Rename VerifiedHTTPSConnection to HTTPSConnection

- * Himanshu Garg <garg_himanshu@outlook.com>
- * DOC & LICENSE Update

- * Hod Bin Noon <bin.noon.hod@gmail.com>
- * Test improvements

- * Chris Olufson <tycarac@gmail.com>
- * Fix for connection not being released on HTTP redirect and response not preloaded

- * [Your name or handle] <[email or website]>
- * [Brief summary of your changes]

1.630 @types/color-convert 2.0.0

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1.631 httplib 0.20.4

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1.633 jsonpatch 1.24

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A1UdDgQWBBTFe1i97doladL3WRaoszLAeydb9DAOBgNVHQ8BAf8EBAMCAQYwDwYD
VR0TAQH/BAUwAwEB/zCBgwYDVR0fBHwweja8oDqgOIY2aHR0cDovL2Nybc5jb21v
ZG9jYS5jb20vVHJlYXZlZDZlZDZlZDZlZDZlZDZlZDZlZDZlZDZlZDZlZDZlZDZlZDZl
dHRwOi8vY3JlYXZlZDZlZDZlZDZlZDZlZDZlZDZlZDZlZDZlZDZlZDZlZDZlZDZlZDZl
Y3JsMA0GCSqGSIb3DQEBBQUAA4IBAQDIk4E7ibSvuIQSTI3S8NtwuleGFTQQus9/
HrCoiWChisJ3DFBKmwCL2Iv0QeLQg4pKHBQGsKNoBXAxMKdTmw7pSqBYaWcOrp32
pSxBvzwGa+RZzG0Q8ZZvH9/0BAKkn0U+yNj6NkZEUD+Cl5EfKNsYEEYwq5GWDVxIS
jBc/IDb+XbDABHcTuPQV1T84zJQ6VdCsmPW6AF/ghhmBeC8owH7TzEIK9a5QoNE+
xqF7D+gIxmOom0jtTYSU0IR+4viMi14QVFWL4Ucd56/Y57fU0IlqUSc/Atyjc
dBInTMu2l+nZrghtWjlA3QVHdWpaIbOjGM9O9y5Xt5hwXsjEeLBi
```

-----END CERTIFICATE-----

Found in path(s):

```
* /opt/cola/permits/1664030488_1683225738.5698452/0/http-lib2-0-12-0-1-tar-gz/http-lib2-
0.12.0/python3/http-lib2/test/other_cacerts.txt
```

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```

Found in path(s):

```
* /opt/cola/permits/1664030488_1683225738.5698452/0/httplib2-0-12-0-1-tar-gz/httplib2-0.12.0/python2/httplib2/__init__.py
```

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Found in path(s):

```
* /opt/cola/permits/1664030488_1683225738.5698452/0/httplib2-0-12-0-1-tar-gz/httplib2-0.12.0/setup.py
```

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Metadata-Version: 1.1

Name: httplib2

Version: 0.12.0

Summary: A comprehensive HTTP client library.

Home-page: <https://github.com/httplib2/httplib2>

Author: Joe Gregorio

Author-email: joe@bitworking.org

License: MIT

Description:

A comprehensive HTTP client library, ``httplib2`` supports many features left out of other HTTP libraries.

****HTTP and HTTPS****

HTTPS support is only available if the socket module was compiled with SSL support.

****Keep-Alive****

Supports HTTP 1.1 Keep-Alive, keeping the socket open and performing multiple requests over the same connection if possible.

****Authentication****

The following three types of HTTP Authentication are supported. These can be used over both HTTP and HTTPS.

* Digest

* Basic

* WSSE

****Caching****

The module can optionally operate with a private cache that understands the Cache-Control: header and uses both the ETag and Last-Modified cache validators. Both file system and memcached based caches are supported.

****All Methods****

The module can handle any HTTP request method, not just GET and POST.

****Redirects****

Automatically follows 3XX redirects on GETs.

****Compression****

Handles both 'deflate' and 'gzip' types of compression.

****Lost update support****

Automatically adds back ETags into PUT requests to resources we have already cached. This implements Section 3.2 of Detecting the Lost Update Problem Using Unreserved Checkout

****Unit Tested****

A large and growing set of unit tests.

Platform: UNKNOWN

Classifier: Development Status :: 4 - Beta

Classifier: Environment :: Web Environment

Classifier: Intended Audience :: Developers

Classifier: License :: OSI Approved :: MIT License

Classifier: Operating System :: OS Independent

Classifier: Programming Language :: Python

Classifier: Programming Language :: Python :: 2

Classifier: Programming Language :: Python :: 2.7

Classifier: Programming Language :: Python :: 3

Classifier: Programming Language :: Python :: 3.4

Classifier: Programming Language :: Python :: 3.5

Classifier: Programming Language :: Python :: 3.6

Classifier: Topic :: Internet :: WWW/HTTP

Classifier: Topic :: Software Development :: Libraries

Found in path(s):

* /opt/cola/permits/1664030488_1683225738.5698452/0/httplib2-0-12-0-1-tar-gz/httplib2-0.12.0/python3/httplib2.egg-info/PKG-INFO

* /opt/cola/permits/1664030488_1683225738.5698452/0/httplib2-0-12-0-1-tar-gz/httplib2-0.12.0/PKG-INFO

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Found in path(s):

```
* /opt/cola/permits/1664030488_1683225738.5698452/0/httplib2-0-12-0-1-tar-gz/httplib2-0.12.0/python3/httplib2/socks.py
* /opt/cola/permits/1664030488_1683225738.5698452/0/httplib2-0-12-0-1-tar-gz/httplib2-0.12.0/python2/httplib2/socks.py
```

1.635 pypng 0.0.20

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1.636 @amplitude/analytics-browser 1.4.0

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1.637 formidable 1.2.6

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1.638 pyrsistent 0.15.4

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1.639 packaging 21.3

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1.640 python-jose 3.1.0

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1.641 colorama 0.4.6

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1.642 strip-bom 2.0.0

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1.643 Iodash-reunesapedhtml 2.4.1

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1.644 bootstrap 4.6.1

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1.645 py4j 0.10.9.5

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1.646 boto3 1.16.52

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1.647 xml-name-validator 3.0.0

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1.648 @csstools/postcss-stepped-value-functions 1.0.1

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1.654 s3transfer 0.6.0

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1.657 postcss-replace-overflow-wrap 4.0.0

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1.658 @babel/runtime 7.16.3

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1.659 react-router-dom 5.2.0

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1.660 google-api-python-client 2.79.0

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1.661 Iodash.keys 2.4.1

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1.662 camelcase-keys 2.1.0

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1.663 string_decoder 1.1.1

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1.664 cssdb 7.0.1

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1.665 pyopenssl 20.0.1

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1.666 data-urls 2.0.0

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1.667 pyjwt 2.2.0

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1.668 distlib 0.3.1

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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see <http://www.cwi.nl>) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see <http://www.cnri.reston.va.us>) in Reston, Virginia where he released several versions of the

software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see <http://www.zope.com>). In 2001, the Python Software Foundation (PSF, see <http://www.python.org/psf/>) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

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1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.2	2.1.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2.1	2.2	2002	PSF	yes
2.2.2	2.2.1	2002	PSF	yes
2.2.3	2.2.2	2003	PSF	yes
2.3	2.2.2	2002-2003	PSF	yes
2.3.1	2.3	2002-2003	PSF	yes
2.3.2	2.3.1	2002-2003	PSF	yes
2.3.3	2.3.2	2002-2003	PSF	yes
2.3.4	2.3.3	2004	PSF	yes
2.3.5	2.3.4	2005	PSF	yes
2.4	2.3	2004	PSF	yes
2.4.1	2.4	2005	PSF	yes
2.4.2	2.4.1	2005	PSF	yes
2.4.3	2.4.2	2006	PSF	yes
2.4.4	2.4.3	2006	PSF	yes
2.5	2.4	2006	PSF	yes
2.5.1	2.5	2007	PSF	yes
2.5.2	2.5.1	2008	PSF	yes
2.5.3	2.5.2	2008	PSF	yes

2.6	2.5	2008	PSF	yes
2.6.1	2.6	2008	PSF	yes
2.6.2	2.6.1	2009	PSF	yes
2.6.3	2.6.2	2009	PSF	yes
2.6.4	2.6.3	2009	PSF	yes
2.6.5	2.6.4	2010	PSF	yes
3.0	2.6	2008	PSF	yes
3.0.1	3.0	2009	PSF	yes
3.1	3.0.1	2009	PSF	yes
3.1.1	3.1	2009	PSF	yes
3.1.2	3.1	2010	PSF	yes
3.2	3.1	2010	PSF	yes

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distlib has started off using some of the code from distutil2.

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Thanks to:

- Rajiv Abraham

- Ali Afshar
- David Barnett
- Pior Bastida
- Anthony Baxter
- Erik Bray
- C. Titus Brown
- Francisco Martn Brugu
- Nicolas Cadou
- Godefroid Chapelle
- Julien Courteau
- Christophe Combelles
- Jason R. Coombs
- Pierre-Yves David
- Ned Deily
- Konrad DeLong
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- Andr Espaze
- Boris Feld
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- Walker Hale IV
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- Martin von Lwis
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1.672 s3fs 0.4.2

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1.673 @csstools/postcss-text-decoration-shorthand 1.0.0

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1.674 aws-cli 1.19.106

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1.675 tomli 2.0.1

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1.676 h2 3.0.1

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1.677 hast-util-parse-selector 2.2.5

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1.680 yamllint 1.18.0

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1.681 croniter 1.3.4

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1.682 trim-newlines 1.0.0

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1.683 pkg-config 1.5.1

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= README

== Name

pkg-config

== Description

A pkg-config implementation by Ruby.

== Install

```
# gem install pkg-config
```

== Documents

* <https://rubydoc.info/gems/pkg-config>

== Source

There is the pkg-config repository at GitHub:

<http://github.com/ruby-gnome/pkg-config>

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== Thanks

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- * Andrea B.C.
- * Antonio Terceiro

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```

```
* /opt/cola/permits/1664029866_1683224787.3044329/0/ruby-gnome-pkg-config-1-5-1-0-g20285cd-tar-gz/ruby-gnome-pkg-config-fddb603/Rakefile
```

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```

```
* /opt/cola/permits/1664029866_1683224787.3044329/0/ruby-gnome-pkg-config-1-5-1-0-g20285cd-tar-gz/ruby-gnome-pkg-config-fddb603/lib/pkg-config.rb
```

1.684 h2 4.1.0

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