

STATE OF PILLOW



DECEMBER 8, 2020



Plone Conference @ploneconf · Oct 14

...

"The State of Pillow" sounds like a really good talk to [#ploneconf2020!](#)
The Call for Papers is still open, and the community misses you :-) 2020.ploneconf.org

Plone® Conference ONLINE



1

1

5





Érico Andrei

14.5K Tweets



Following

Érico Andrei

@ericof Follows you

Entrepreneur, co-founder of [@pendecthq](#), [@ThePSF](#) Fellow, [@plone](#) Board Member and [@websauna9000](#) maintainer. He/him/his. Opinions and tweets are my own. 



Plone Conference @ploneconf · Oct 14

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"The State of Pillow" sounds like a really good talk to #ploneconf2020!

The Call for Papers is still open, and the community misses you :-)

2020.ploneconf.org

Plone® Conference ONLINE



1

1

5



THANK YOU







Tweet

1

1

5



Alex Clark
@aclark4life

...

Replying to [@ploneconf](#)

Hah, OK but then I'd have to do work ... I'll take a peek at the CFP, thanks for the nudge! Miss [@plone](#) community too <3!!

4:58 PM · Oct 14, 2020 · Twitter Web App

ALEX CLARK



CREATOR OF PYTHON PILLOW



Tres, Alex, Tarek, Russ @ Plone Conference 2008



pillow

FRIENDLY



pillow

PIL FORK



WIKIPEDIA
The Free Encyclopedia

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Python Imaging Library

From Wikipedia, the free encyclopedia

Python Imaging Library (abbreviated as **PIL**) (in newer versions known as **Pillow**) is a free and open-source additional library for the Python programming language that adds support for opening, manipulating, and saving many different image file formats. It is available for Windows, Mac OS X and Linux. The latest version of PIL is 1.1.7, was released in September 2009 and supports Python 1.5.2–2.7, with Python 3 support to be released "later".^[3]

Development appears to be discontinued, with the last commit to the PIL repository coming in 2011.^[2] Consequently, a successor project called **Pillow** has forked the PIL repository and added Python 3.x support.^[4] This fork has been adopted as a replacement for the original PIL in Linux distributions including Debian^[5] and Ubuntu (since 13.04).^[6]

Contents [hide]

- 1 Capabilities
- 2 File formats
- 3 Usage example
- 4 License
- 5 References
- 6 External links

Capabilities [edit]

Python Imaging Library

Original author(s)	Fredrik Lundh
Developer(s)	Secret Labs AB
Initial release	1995; 25 years ago ^[1]
Stable release	1.1.7 / November 15, 2009; 11 years ago ^[3]
Preview release	1.2a0 ^[2] / 2011; 9 years ago
Written in	Python, C
Type	Library for <a>image processing
License	Python Imaging Library license ^[1]
Website	www.pythonware.com /products/pil/

https://en.wikipedia.org/wiki/Python_Imaging_Library

THE STORY OF PILLOW

RAISE YOUR ZOOM
HAND  IF YOU
KNOW THE STORY

[Image-SIG] Pillow, the "friendly" PIL fork

Alex Clark [aclark at aclark.net](mailto:aclark@aclark.net)

Sat Jul 31 08:52:25 CEST 2010

- Previous message: [Image-SIG] ImageOps.fit(): centering parameter (PIL 1.1.7)
- Next message: [Image-SIG] Pillow, the "friendly" PIL fork
- Messages sorted by: [\[date \]](#) [\[thread \]](#) [\[subject \]](#) [\[author \]](#)

Hi all,

I have been wanting to tackle this for sometime, and finally got around to it tonight. I've created a "friendly" fork of PIL called "Pillow":
<http://pypi.python.org/pypi/Pillow/1.0>

Some background: I've been doing Plone development for the past 5 years or so, and PIL has always "been an issue". I won't get into what the issues are now, but I assume folks know them.

By "friendly" fork, I mean, I don't wish any ill-will towards the author (thank you Fredrik, for such a wonderful package!), and developer community. I am just trying to gauge what the reaction to the fork will be, and if any progress can be made toward solving "the issues".

<https://mail.python.org/pipermail/image-sig/2010-July/006423.html>

READ THESE

<https://mail.python.org/pipermail/image-sig/2010-July/thread.html>

<https://mail.python.org/pipermail/image-sig/2010-August/thread.html>

IMAGE-SIG

The screenshot shows a web browser window with the URL mail.python.org/pipermail/image-sig/2010-July/thread.html in the address bar. The page content is a list of messages in a threaded format:

- [\[Image-SIG\] that's enough](#) *Alec Bennett*
 - [\[Image-SIG\] that's enough](#) *Stani*
- [\[Image-SIG\] IOError\("cannot identify image file"\)](#) *Steve McFarlin*
- [\[Image-SIG\] Image Identification Error](#) *Steve McFarlin*
- [\[Image-SIG\] bug in docs for Image.rotate\(\)](#) *Bill Janssen*
 - [\[Image-SIG\] bug in docs for Image.rotate\(\)](#) *Bill Janssen*
- [\[Image-SIG\] the question about the PIL installation on cygwin](#) *朱轶君*
 - [\[Image-SIG\] the question about the PIL installation on cygwin](#) *Yury V. Zaytsev*
- [\[Image-SIG\] ImageOps.fit\(\): centering parameter \(PIL 1.1.7\)](#) *Olaf Dietrich*
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 - [\[Image-SIG\] Pillow, the "friendly" PIL fork](#) *Daniel Fetchinson*

<https://mail.python.org/pipermail/image-sig/2010-July/thread.html>

IMAGE-SIG

← → C ⌂ mail.python.org/pipermail/image-sig/2010-July/thread.html

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<https://mail.python.org/pipermail/image-sig/2010-August/thread.html>

IMAGE-SIG



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<https://mail.python.org/pipermail/image-sig/2010-August/006429.html>

IMAGE-SIG

2010/7/31 Daniel Fetchinson <fetchinson@googlemail.com>:
 >> I have been wanting to tackle this for sometime, and finally got around to
 >> it tonight. I've created a "friendly" fork of PIL called "Pillow":
 >> <http://pypi.python.org/pypi/Pillow/1.0>
 >>
 >> Some background: I've been doing Plone development for the past 5 years or
 >> so, and PIL has always "been an issue". I won't get into what the issues are
 >> now, but I assume folks know them.
 >
 > Well, I actually don't know what the "issues" are, but am very
 > interested in hearing them!

Plone exists in the Zope universe, not the Python universe, which is an issue in itself.

In this case, I think the actual "issue" is that Zope uses its own build system that's puts specific requirements on the distutils packaging; requirements that are not compatible with PIL's setup file.

Instead of just sit down and contribute a patch like everyone else would have done, they've spent a couple of years ranting on their own mailing lists and occasionally sending me nastygrams (including writing reviews on PyPI telling people to stay away from the software because if it's not convenient to use with a package system you invented yourself, it's worthless for everyone). At least a packaging fork means that someone's over there is producing something more than invectives, but I'd still prefer a patch.

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IMAGE-SIG

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<https://mail.python.org/pipermail/image-sig/2010-August/006429.html>

IMAGE-SIG

"At least a packaging fork means that someone's over there is producing something more than invectives, but I'd still prefer a patch."

— Fredrik Lundh on Pillow



SINCE 1828

invective

[Dictionary](#)

invective noun

Save Word

in·vec·tive | \ in-'vek-tiv \

Definition of *invective* (Entry 1 of 2)

- 1 : insulting or abusive language : VITUPERATION
- 2 : an abusive expression or speech

IMAGE-SIG

[Image-SIG] Pillow, the "friendly" PIL fork

Fredrik Lundh [fredrik at pythonware.com](mailto:fredrik@pythonware.com)

Sun Aug 1 12:51:25 CEST 2010

- Previous message: [\[Image-SIG\] Pillow, the "friendly" PIL fork](#)
- Next message: [\[Image-SIG\] Pillow, the "friendly" PIL fork](#)
- **Messages sorted by:** [\[date \]](#) [\[thread \]](#) [\[subject \]](#) [\[author \]](#)

2010/8/1 Jerome Leclanche <adys.wh@gmail.com>:

> Although the "PIL" and "Image*" packages themselves do not
> respect python standards (should be from imaging import .., or
> something alike).

If you had been paying attention, you'd noticed that "python standards" change all the time, depend on what the latest minibosses think (suggestion: look up old versions of PEP 8 before you post stuff about how others ignore the "standards").

<https://mail.python.org/pipermail/image-sig/2010-August/006428.html>

STANDARDS CHANGE

```
> Although the "PIL" and "Image*" packages themselves do  
not  
> respect python standards (should be from imaging import  
..., or  
> something alike).
```

If you had been paying attention, you'd noticed that
"python
standards" change all the time, depend on what the latest
minibosses
think (suggestion: look up old versions of PEP 8 before you
post stuff
about how others ignore the "standards").

HOW DID WE GET
HERE?



FEBRUARY 1991

TIMELINE

1991

Python 0.9.0
(alt.sources)

https://en.wikipedia.org/wiki/History_of_Python

ANCIENT RELEASES

Andrew Dalke was clever and persistent enough to scrape Python 0.9.1 out of the Usenet alt.sources archives and assemble a compressed tarball. It's here mostly as a historical relic.

<https://www.python.org/download/releases/early/>

"ANCIENT"



JUNE 1995

TIMELINE

1991

Python 0.9.0
(alt.sources)

1995

PIL

[Image-SIG] pil ten year anniversary

Fredrik Lundh [fredrik at pythonware.com](mailto:fredrik@pythonware.com)

Wed Jun 15 15:43:04 CEST 2005

- Previous message: [\[Image-SIG\] Converting from numarray to PIL](#)
- Next message: [\[Image-SIG\] pil ten year anniversary](#)
- **Messages sorted by:** [\[date \]](#) [\[thread \]](#) [\[subject \]](#) [\[author \]](#)

just fyi:

```
$ cd pil
$ grep 1995-06 */*.c
libImaging/Convert.c: * 1995-06-15 fl    created
libImaging/Except.c: * 1995-06-15 fl    Created
libImaging/Geometry.c: * 1995-06-15 fl    Created
libImaging/Histo.c: * 1995-06-15 fl    Created.
libImaging/Storage.c: * 1995-06-15 fl    Created
```

<https://mail.python.org/pipermail/image-sig/2005-June/003377.html>

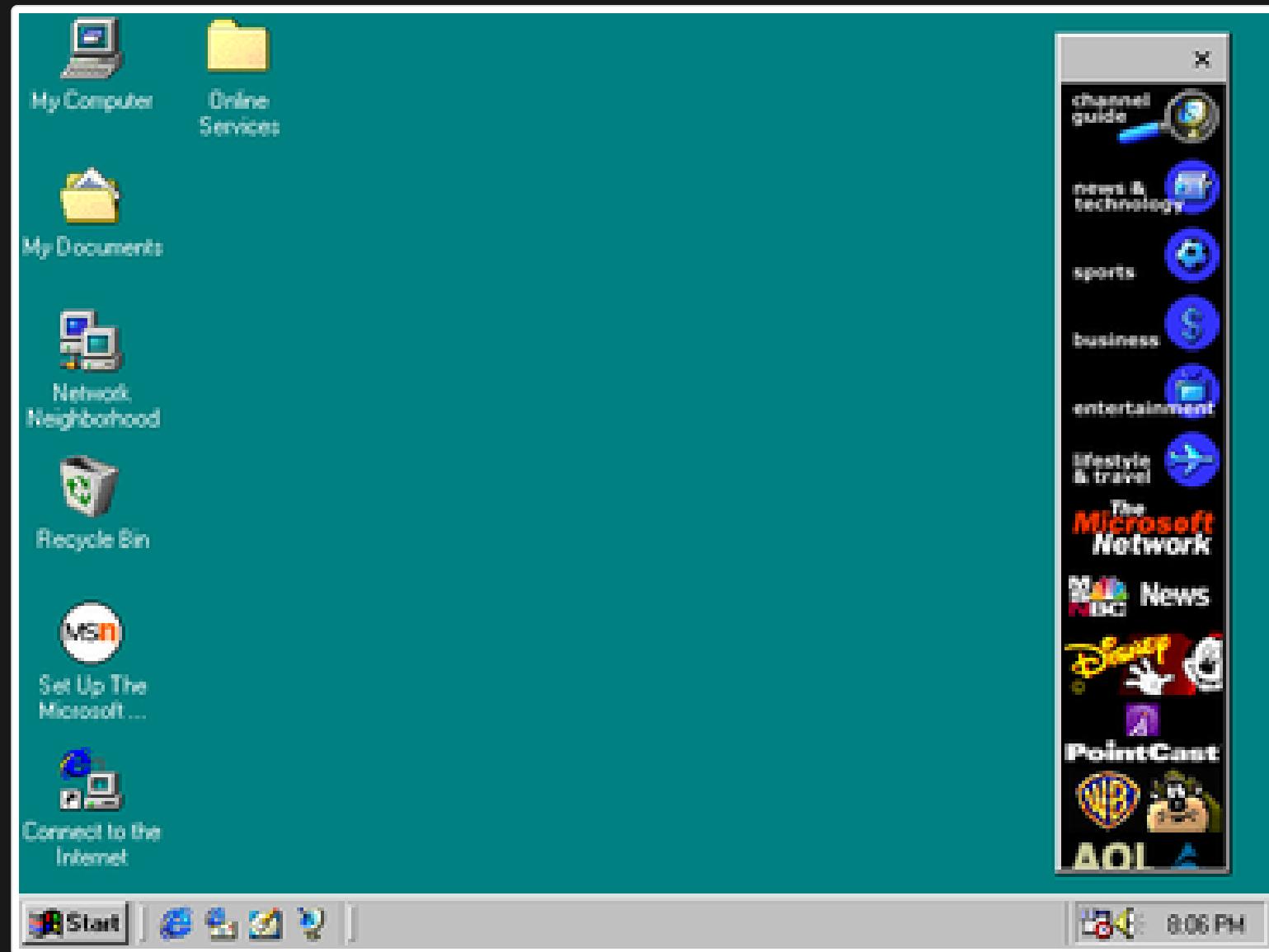
ARBITRARY MILESTONES ISSUE!

BY WIREDFOOL

*"We're at 2000 stars! Seems like only
last month that we were at 1000."*

<https://github.com/python-pillow/Pillow/issues/1512>

Oct 27, 2015



1998

TIMELINE

1998

Zope

<https://old.zope.org/Members/paul/BusinessDecision/>

PARTY LIKE IT'S

1999



ZOPE

Logged in as admin

Zope Quick Start ▾

Go

Root Folder[Control_Panel](#)[Examples](#)[acl_users](#)[temp_folder](#)**© Zope Corporation**[Refresh](#)**Add Folder**[Help!](#)

A Folder contains other objects. Use Folders to organize your web objects in to logical groups. The *create public interface* option creates an index document inside the Folder to give the Folder a default HTML representation. The *create user folder* option creates a User Folder inside the Folder to hold authorization information for the Folder.

Id

zoo

Title

Zope Zoo

 Create public interface Create user folder**Add**

TIMELINE

1998

Zope

1999

Zope2

2020 normies: LOL imagine being scared of Y2K, nothing was going to happen

The tens of thousands of engineer hours spent removing the bugs:



<https://knowyourmeme.com/memes/events/y2k-bug/photos>

TIMELINE

2000

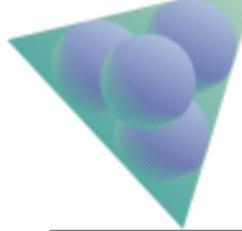
Python 2.0 (distutils)

```
(PIL-1.1.7) PIL-1.1.7 python setup.py install
running install
running build
running build_py
running build_ext
--- using frameworks at /System/Library/Frameworks
-----
PIL 1.1.7 SETUP SUMMARY
-----
version      1.1.7
platform     darwin 2.7.16 (default, Jun  5 2020, 22:59:21)
             [GCC 4.2.1 Compatible Apple LLVM 11.0.3 (clang-1103.0.29.20) (-macos10.15-objc-
-----
--- TKINTER support available
--- JPEG support available
*** ZLIB (PNG/ZIP) support not available
--- FREETYPE2 support available
--- LITTLECMS support available
-----
To add a missing option, make sure you have the required
library, and set the corresponding ROOT variable in the
setup.py script.

To check the build, run the selftest.py script.
running build_scripts
running install_lib
running install_scripts
changing mode of /Users/alexclark/Downloads/PIL-1.1.7/bin/pildriver.py to 755
changing mode of /Users/alexclark/Downloads/PIL-1.1.7/bin/pilconvert.py to 755
changing mode of /Users/alexclark/Downloads/PIL-1.1.7/bin/pilfile.py to 755
changing mode of /Users/alexclark/Downloads/PIL-1.1.7/bin/pilfont.py to 755
changing mode of /Users/alexclark/Downloads/PIL-1.1.7/bin/pilprint.py to 755
running install_egg_info
Removing /Users/alexclark/Downloads/PIL-1.1.7/lib/python2.7/site-packages/PIL/PIL-1.1.7-py2.7.egg-info
Writing /Users/alexclark/Downloads/PIL-1.1.7/lib/python2.7/site-packages/PIL/PIL-1.1.7-py2.7.egg-info
creating /Users/alexclark/Downloads/PIL-1.1.7/lib/python2.7/site-packages/PIL.pth
(PIL-1.1.7) PIL-1.1.7
```

```
(PIL-1.1.7) PIL-1.1.7 python setup.py install
running install
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changing mode of /Users/alexclark/Downloads/PIL-1.1.7/bin/pilconvert.py to 755
changing mode of /Users/alexclark/Downloads/PIL-1.1.7/bin/pilfile.py to 755
changing mode of /Users/alexclark/Downloads/PIL-1.1.7/bin/pilfont.py to 755
changing mode of /Users/alexclark/Downloads/PIL-1.1.7/bin/pilprint.py to 755
running install_egg_info
Removing /Users/alexclark/Downloads/PIL-1.1.7/lib/python2.7/site-packages/PIL/PIL-1.1.7-py2.7.egg-info
Writing /Users/alexclark/Downloads/PIL-1.1.7/lib/python2.7/site-packages/PIL/PIL-1.1.7-py2.7.egg-info
creating /Users/alexclark/Downloads/PIL-1.1.7/lib/python2.7/site-packages/PIL.pth
(PIL-1.1.7) PIL-1.1.7
```



Search

[Welcome](#) · [News](#) · [Search](#) ·

[register](#) [sign in](#)

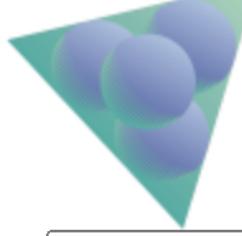
Navigation plone.org

- [Members](#)

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Welcome to plone.org

plone.org is the website for the Plone visual style and skins for the Zope CMF in general. More content will be added soon, we are finishing up the first real release of Plone at the moment. Yeah, and you can register and log in and stuff, but don't put any contents here yet, as we tend to move things around and re-install stuff all the time - you have been warned ;)



Search GO

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Plone - The Ultimate Enterprise CMS



Plone Conference Online
5 - 13 December 2020

[Check the schedule](#)[Get your tickets now!](#)

800 Contributors 196 Add-ons 40 Languages

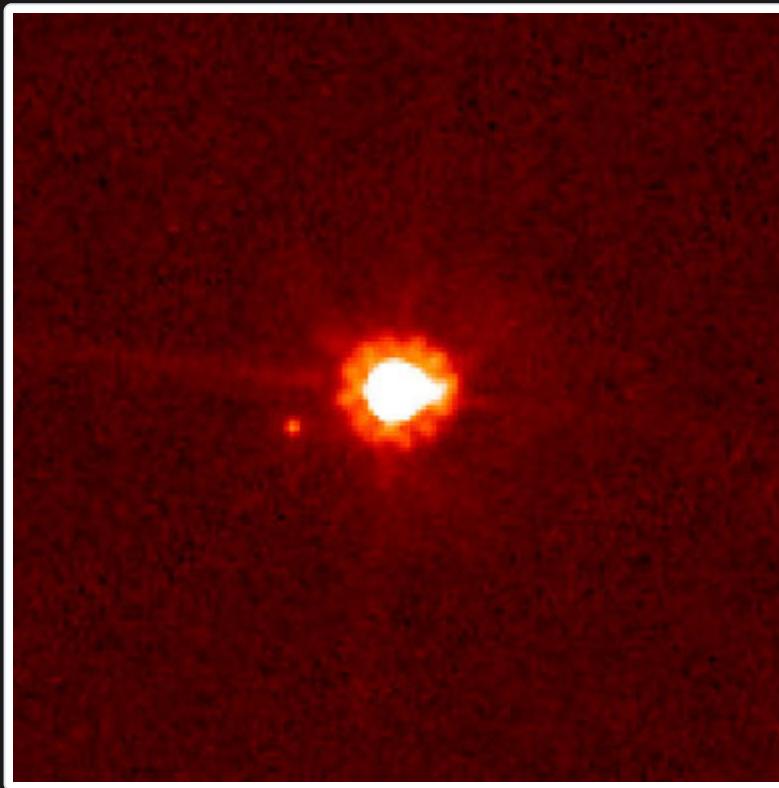
TIMELINE

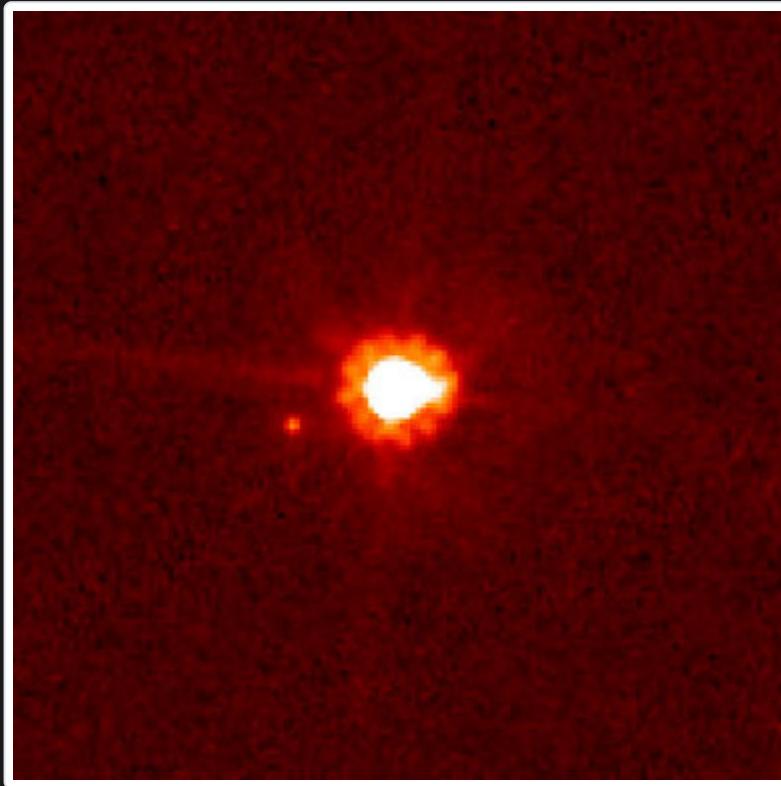
2000

Python 2.0 (distutils)

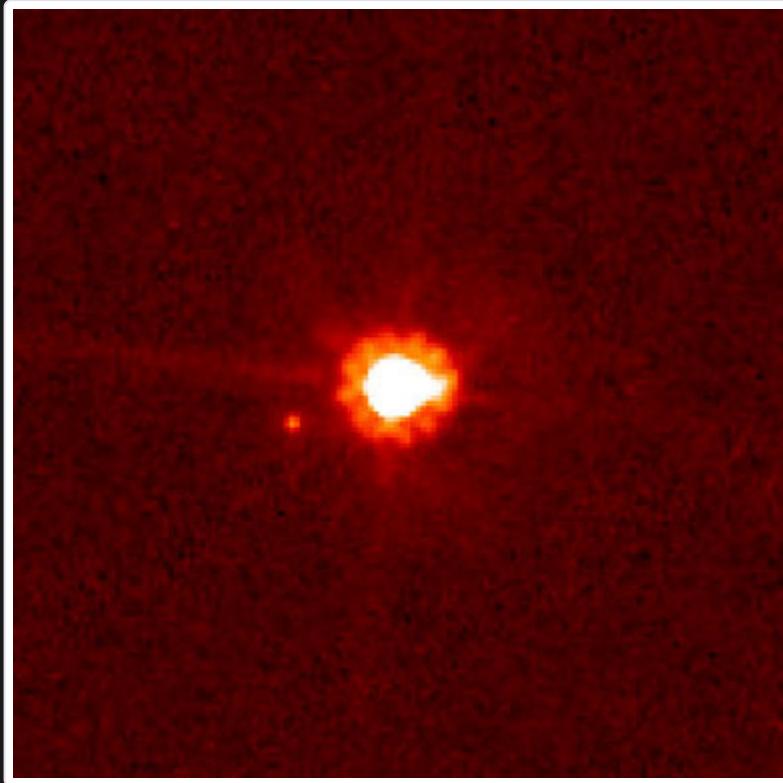
2001

Plone





[https://en.wikipedia.org/wiki/Eris_\(dwarf_planet\)](https://en.wikipedia.org/wiki/Eris_(dwarf_planet))



[https://en.wikipedia.org/wiki/Eris_\(dwarf_planet\)](https://en.wikipedia.org/wiki/Eris_(dwarf_planet))

2005

TIMELINE

2005

Buildout (Internal)

<http://www.buildout.org/en/latest/topics/history.html>

PLONE CONFERENCE

OCTOBER 2006



CONTENT . COLLABORATION . COMMUNITY

TIMELINE

2005

Buildout (Internal)

2006

setuptools

zc.buildout

DISTUTILS

The distutils package provides support for building and installing additional modules into a Python installation. The new modules may be either 100%-pure Python, or may be extension modules written in C, or may be collections of Python packages which include modules coded in both Python and C.

<https://docs.python.org/3/library/distutils.html>

SETUPTOOLS

SetupTools is a fully-featured, actively-maintained, and stable library designed to facilitate packaging Python projects.

<https://setuptools.readthedocs.io/en/latest/>

BUILDOUT

*Buildout is a tool for automating
software assembly.*

<http://www.buildout.org/en/latest/index.html>

HOW DID WE GET
HERE?

ISSUES

- Python and PIL were created in 1991 and 1995 respectively.
- Distutils was added to Python core in 2000 in Python 2.0.
- PIL used distutils.

ISSUES

- Plone is Buildout-able as of 3.2a1 (2008)
- Buildout requires setuptools
- PIL is not setuptools compatible

ISSUES

- Installation
- Runtime
- Human

```
>>> import Image
```

STANDARDS CHANGE

```
> Although the "PIL" and "Image*" packages themselves do  
not  
> respect python standards (should be from imaging import  
..., or  
> something alike).
```

If you had been paying attention, you'd noticed that
"python
standards" change all the time, depend on what the latest
minibosses
think (suggestion: look up old versions of PEP 8 before you
post stuff
about how others ignore the "standards").

LIKE WATCHING A
CAR CRASH





THIS. DID. NOT. WORK.

```
# buildout.cfg
[buildout]
parts = plone

[plone]
recipe = plone.recipe.zope2instance
eggs =
    PIL
    Plone
```

AND. I. REALLY. WANTED. IT. TOO.

```
# buildout.cfg
[buildout]
parts = plone

[plone]
recipe = plone.recipe.zope2instance
eggs =
    PIL
    Plone
```

← → C ⌂

mail.python.org/pipermail/image-sig/2010-August/006443.html

As such, various alternative re-packages have appeared:

- <http://download.zope.org/distribution/PILwoTk-1.1.6.4.tar.gz>
- <http://dist.repoze.org/PIL-1.1.6.tar.gz>
- <http://dist.plone.org/thirdparty/PIL-1.1.7.tar.gz>

<https://mail.python.org/pipermail/image-sig/2010-August/006443.html>

MAYBE THIS WORKED?

```
# buildout.cfg
[buildout]
find-links = https://dist.plone.org/thirdparty/PIL-
1.1.7.tar.gz
parts = plone

[plone]
recipe = plone.recipe.zope2instance
eggs =
    PIL
    Plone
```



Community Experience Distilled

Plone 3.3 Site Administration

Manage your site like a Plone professional

Foreword by Tarek Ziade, Python core developer and Distribute maintainer

Alex Clark

[PACKT] open source*
PUBLISHING

Adding PIL to your buildout

You can add PIL to your buildout by adding the PILwoTk URL to the `find-links` parameter (in the buildout section) and the PILwoTk package name to the `eggs` parameter (in the instance section). In `pil.cfg`, we have:

```
[buildout]
extends = http://dist.plone.org/release/3.3.5/versions.cfg
versions = versions
parts =
    zope2
    instance
find-links =
    http://dist.plone.org/thirdparty/PILwoTk-1.1.6.4.tar.gz

[zope2]
recipe = plone.recipe.zope2install
url = ${versions:zope2-url}

[instance]
recipe = plone.recipe.zope2instance
zope2-location = ${zope2:location}
user = admin:admin
eggs =
    Plone
    PILwoTk
```

Now when Buildout runs, assuming you have satisfied PIL's dependencies, PIL will be installed into the buildout.



What is PILwoTk?

PILwoTk is a re-packaging of PIL by Jim Fulton of Zope Corporation. The package name is short for **PIL without Tk (PILwoTk)** and the source code has been modified to remove the Tk dependency, which Plone does not use. Because of the unique package name, using PILwoTk also avoids the possibility of downloading a potentially inoperable version of PIL from the Python Package Index.

The PIL problem

One of the most notorious issues with running Plone is that it requires the Python Imaging Library (PIL) located at <http://www.pythonware.com/products/pil/>. If you don't have PIL installed, you don't have a working Plone site.

[ Why is PIL a problem?
It is packaged in such a way that it is difficult to use with other packages.]

To make using PIL with Plone easier, you can try one of these techniques: using the Python buildout, using PIP, or adding PIL to your buildout.

Using the Python buildout

As covered in Chapter 1, the Python buildout (<http://svn.plone.org/svn/collective/buildout/python/>) downloads and installs PIL for you.



SINCE 1828

invective

Dictionary

invective noun

Save Word

in·vec·tive | \ in-'vek-tiv \

Definition of *invective* (Entry 1 of 2)

- 1 : insulting or abusive language : VITUPERATION
- 2 : an abusive expression or speech

GUILTY

Using PIP

You can use PIP to install the following version (re-packaged by core developer Hanno Schlichting): <http://dist.plone.org/thirdparty/PIL-1.1.7.tar.gz>.

This is done using the following command:

```
$ pip install http://dist.plone.org/thirdparty/PIL-1.1.7.tar.gz
```

AS GOOD AS IT GETS (1997)

Melvin Udall : I've got this, what, ailment? My doctor, a shrink that I used to go to all the time, he says that in fifty or sixty percent of the cases, a pill really helps. I hate pills. Very dangerous thing, pills. Hate. I'm using the word "hate" here, about pills. Hate.

https://www.imdb.com/title/tt0119822/?ref_=tt_ch

MAYBE THIS WORKED?

```
# buildout.cfg
[buildout]
find-links = https://dist.plone.org/thirdparty/PIL-
1.1.7.tar.gz
parts = plone

[plone]
recipe = plone.recipe.zope2instance
eggs =
    PIL
    Plone
```

**IT DID. BUT WHY? AT
WHAT COST?**

 Release history

Project links

 [Homepage](#)

 [Download](#)

Statistics

View statistics for this project via [Libraries.io](#), or by using [our public dataset on Google BigQuery](#)

Meta

License: Python (MIT style)

Author: [Secret Labs AB](#)
[\(PythonWare\)](#)

Maintainers

 [aclark](#)

THIS VERSION



1.1.6
Dec 3, 2006

1.1.5
Mar 30, 2005

1.1.5a2 PRE-RELEASE
Mar 1, 2004

1.1.5a1 PRE-RELEASE
Feb 22, 2004

1.1.4
Oct 19, 2003

1.1.3
Jan 16, 2003

<https://pypi.org/project/PIL/#history>

 Release history

Project links

 [Homepage](#)

 [Download](#)

Statistics

View statistics for this project via [Libraries.io](#), or by using [our public dataset on Google BigQuery](#)

Meta

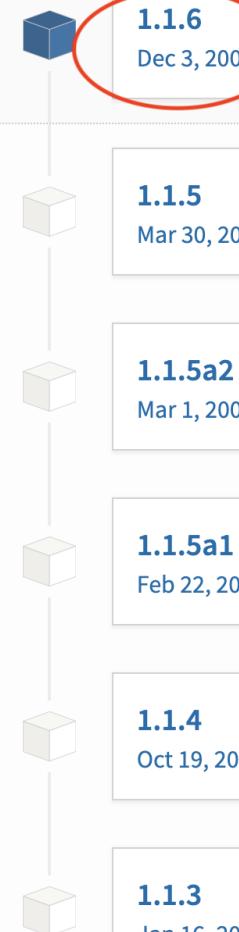
License: Python (MIT style)

Author: [Secret Labs AB](#)
[\(PythonWare\)](#)

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THIS VERSION



1.1.6
Dec 3, 2006

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1.1.5a2 PRE-RELEASE
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1.1.5a1 PRE-RELEASE
Feb 22, 2004

1.1.4
Oct 19, 2003

1.1.3
Jan 16, 2003

<https://pypi.org/project/PIL/#history>

RESOLUTION?

```
[buildout]
find-links = https://dist.plone.org/thirdparty/PIL-
1.1.7.tar.gz
```

UNLESS

```
[buildout]  
newest = false
```

!?

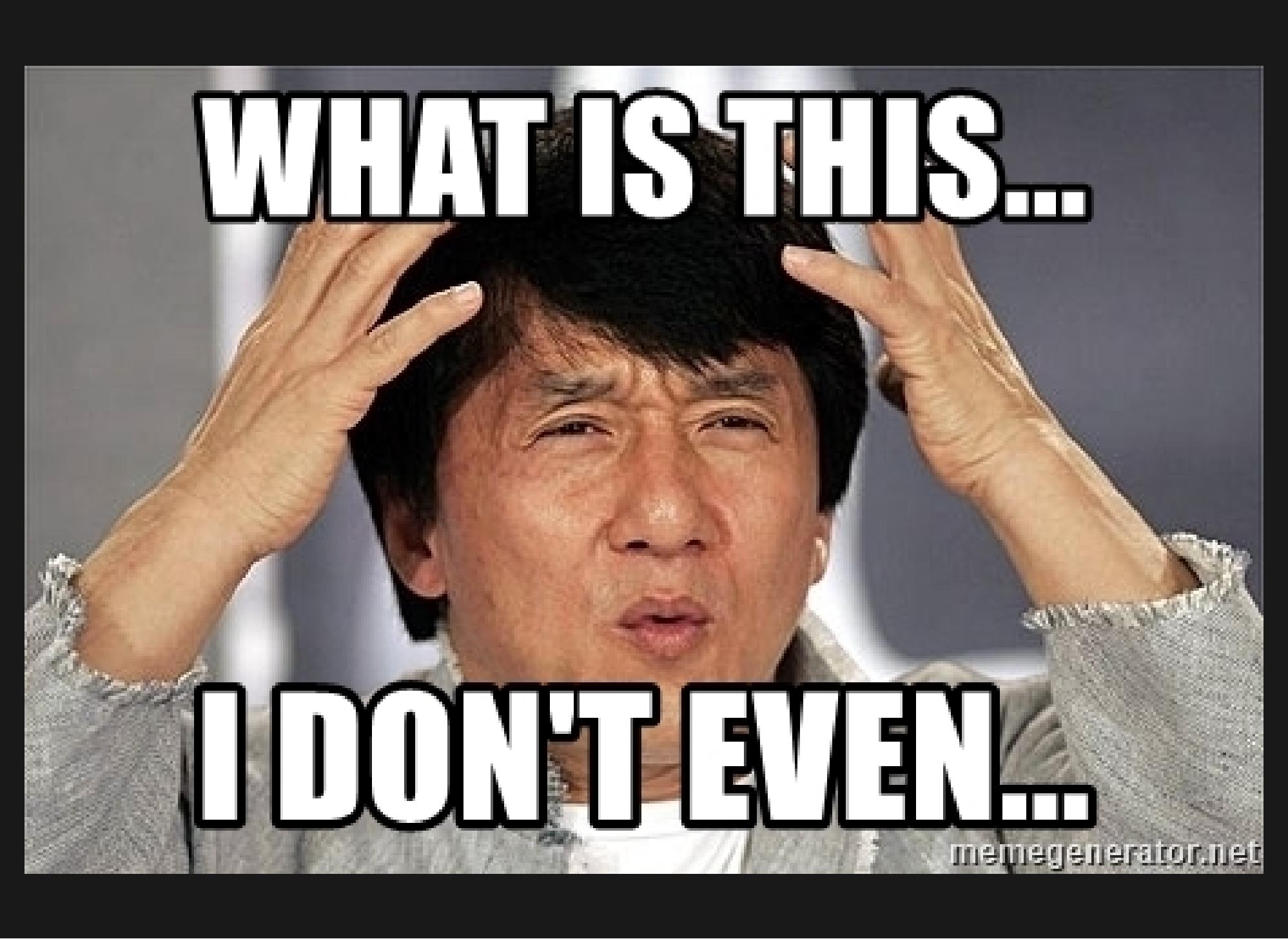
KIDDING!

newest = false

ONLY MATTERS IF

- PIL already installed
- Network down

<http://www.buildout.org/en/latest/reference.html#buildout-configuration-options>

A photograph of Jackie Chan from the chest up. He has dark hair and is wearing a light-colored, button-down shirt. His hands are raised to his head, fingers pointing upwards, with a look of confusion or exhaustion on his face.

WHAT IS THIS...

I DON'T EVEN...

"For this you will pay a terrible price."

—Ancient Proverb

LIKE WATCHING A
CAR CRASH



CREATED BY VECTORPORTAL.COM



HENCE, PILLOW

TIMELINE

2010

Pillow 1.0

← → C ⌂

mail.python.org/pipermail/image-sig/2010-August/006443.html

As such, various alternative re-packages have appeared:

- <http://download.zope.org/distribution/PILwoTk-1.1.6.4.tar.gz>
- <http://dist.repoze.org/PIL-1.1.6.tar.gz>
- <http://dist.plone.org/thirdparty/PIL-1.1.7.tar.gz>

```
[alexclark@Jeffreys-MBP ~/Downloads $ diff PIL-1.1.7/setup.py PIL-1.1.7\2/setup.py | cat
3c3,4
< # Setup script for PIL 1.1.5 and later
---
> # Setup script for PIL 1.1.5 and later (repackaged by Chris McDonough and
> # Hanno Schlichting for setuptools compatibility)
10,15d10
< # make it possible to run the setup script from another directory
< try:
<     os.chdir(os.path.dirname(sys.argv[0]))
< except OSError:
<     pass
<
76,83d70
< # Override settings
<
< try:
<     from setup_site import *
< except ImportError:
<     pass
<
< # -----
86d72
< from distutils.core import Extension, setup
87a74
> from setuptools import setup, find_packages, Extension
481,482c468,469
<         package_dir={"": "PIL"},
<         packages=[""],
---
>         packages=find_packages(),
>         setup_requires=["setuptools_hg"],
```

```
alexclark@Jeffreys-MBP ~/Downloads $ diff PIL-1.1.7/setup.py PIL-1.1.7\2/setup.py | cat
3c3,4
< # Setup script for PIL 1.1.5 and later
---
> # Setup script for PIL 1.1.5 and later (repackaged by Chris McDonough and
> # Hanno Schlichting for setuptools compatibility)
10,15d10
< # make it possible to run the setup script from another directory
< try:
<     os.chdir(os.path.dirname(sys.argv[0]))
< except OSError:
<     pass
<
76,83d70
< # Override settings
<
< try:
<     from setup_site import *
< except ImportError:
<     pass
<
< # -----
86d72
< from distutils.core import Extension, setup
87a74
> from setuptools import setup, find_packages, Extension
481,482c488,499
<         package_dir={"": "PIL"},
<         packages=[""],
---
>         packages=find_packages(),
>         setup_requires=["setuptools_hg"],
```



Alex Clark
@aclark4life

...

OOPS, looks like I never credited [@chrismcdonough](#) along with Hanno Schlichting as co-author of the setuptools-compat PIL 1.1.7 distribution that I used to create Pillow, dist.plone.org/thirdparty/PIL.... Sorry about that, sir! Pull request coming. #Python

The screenshot shows a Mac desktop with a terminal window and a web browser window.

Terminal Window: The terminal window is titled "Downloads — alexclark@Jeffreys-MBP" and shows a diff command comparing "PIL-1.1.7/setup.py" and "PIL-1.1.7". A red oval highlights the line: ">> # Setup script for PIL 1.1.5 and later (repackaged by Chris McDonough)".

```
alexclark@Jeffreys-MBP:~/Downloads $ diff PIL-1.1.7/setup.py PIL-1.1.7
3c3,4
< # Setup script for PIL 1.1.5 and later
---
> # Setup script for PIL 1.1.5 and later (repackaged by Chris McDonough
> # Hanno Schlichting for setuptools compatibility)
10,15d10
< # make it possible to run the setup script from another directory
< try:
<     os.chdir(os.path.dirname(sys.argv[0]))
< except OSError:
<     pass
<
76,83d70
< # Override settings
<
< try:
<     from setup_site import *
< except ImportError:
<     pass
```

Web Browser Window: The browser window is titled "Not Secure | 0.0.0.0:8000/#/10" and displays an email message from Alex Clark.

Email Message:

Subject: [Image-SIG] Pillow, the "friendly" PIL fork

From: Alex Clark aclark@aclark.net

Date: Sat Jul 31 08:52:25 CEST 2010

Message:

- Previous message: [Image-SIG] ImageOps.fit(): centering parameter (PIL 1.1.7)
- Next message: [Image-SIG] Pillow, the "friendly" PIL fork
- Messages sorted by: [\[date\]](#) [\[thread\]](#) [\[subject\]](#) [\[author\]](#)

Hi all,

I have been wanting to tackle this for sometime, and finally got around to it tonight. I've created a "friendly" fork of PIL called "Pillow":

<http://svn.python.org/svn/PIL/1.0>

 [python-pillow / Pillow](#)

Sponsor Unwatch 221 Star 8k Fork 1.5k

Code Issues 211 Pull requests 32 Actions Projects 1 Wiki ...

Update CHANGES.rst #5078

Merged aclark4life merged 1 commit into master from aclark4life-patch-1 23 hours ago

Conversation 0 Commits 1 Checks 83 Files changed 1 +2 -2

aclark4life commented yesterday • edited Member

<https://twitter.com/aclark4life/status/1335001987075747841>

Fixes oversight by @aclark4life 10 years ago.

Changes proposed in this pull request:

- Credit Chris McDonough as setuptools compatible PIL 1.1.7 distribution co-author.

Update CHANGES.rst ... Verified ✓ a0565bc

Reviewers radarhere ✓

Assignees No one—assign yourself

Labels Documentation

Projects

<https://github.com/python-pillow/Pillow/pull/5078>

AS GOOD AS IT GETS (1997)

Melvin Udall : I've got this, what, ailment? My doctor, a shrink that I used to go to all the time, he says that in fifty or sixty percent of the cases, a pill really helps. I hate pills. Very dangerous thing, pills. Hate. I'm using the word "hate" here, about pills. Hate.

https://www.imdb.com/title/tt0119822/?ref_=tt_ch

IMAGE-SIG

[Image-SIG] [Patch] PIL / setuptools compatibility

Laurence Rowe l.rowe.co.uk

Mon Aug 23 17:12:41 CEST 2010

- Previous message: [\[Image-SIG\] my solution \(formerly "enough"\)](#)
- Next message: [\[Image-SIG\] JPEG: colors less shiny?](#)
- **Messages sorted by:** [\[date \]](#) [\[thread \]](#) [\[subject \]](#) [\[author \]](#)

Hi,

Following the thread on Pillow and Zope / PIL compatibility, I think I've found a solution that I hope will be acceptable for PIL.

Problem

=====

It's not really a Zope / PIL issue, but rather an easy_install / PIL one which I think exposes a minor problem with PIL's setup.py which only shows up when installing with easy_install:::

```
$ tmp/bin/easy_install http://effbot.org/downloads/Imaging-1.1.7.tar.gz
...
Installed /data-devel/pil/tmp/lib/python2.6/site-packages/PIL-1.1.7-py2.6-macosx-10.6-i386.egg
Processing dependencies for PIL==1.1.7
Finished processing dependencies for PIL==1.1.7
```

We're unable to ``import PIL``::

<https://mail.python.org/pipermail/image-sig/2010-August/006480.html>

IMAGE-SIG

[Image-SIG] [Patch] PIL / setuptools compatibility

Laurence Rowe l.rowe.co.uk

Mon Aug 23 17:12:41 CEST 2010

- Previous message: [\[Image-SIG\] my solution \(formerly "enough"\)](#)
- Next message: [\[Image-SIG\] JPEG: colors less shiny?](#)
- **Messages sorted by:** [\[date \]](#) [\[thread \]](#) [\[subject \]](#) [\[author \]](#)

Hi,

Following the thread on Pillow and Zope / PIL compatibility, I think I've found a solution that I hope will be acceptable for PIL.

Problem

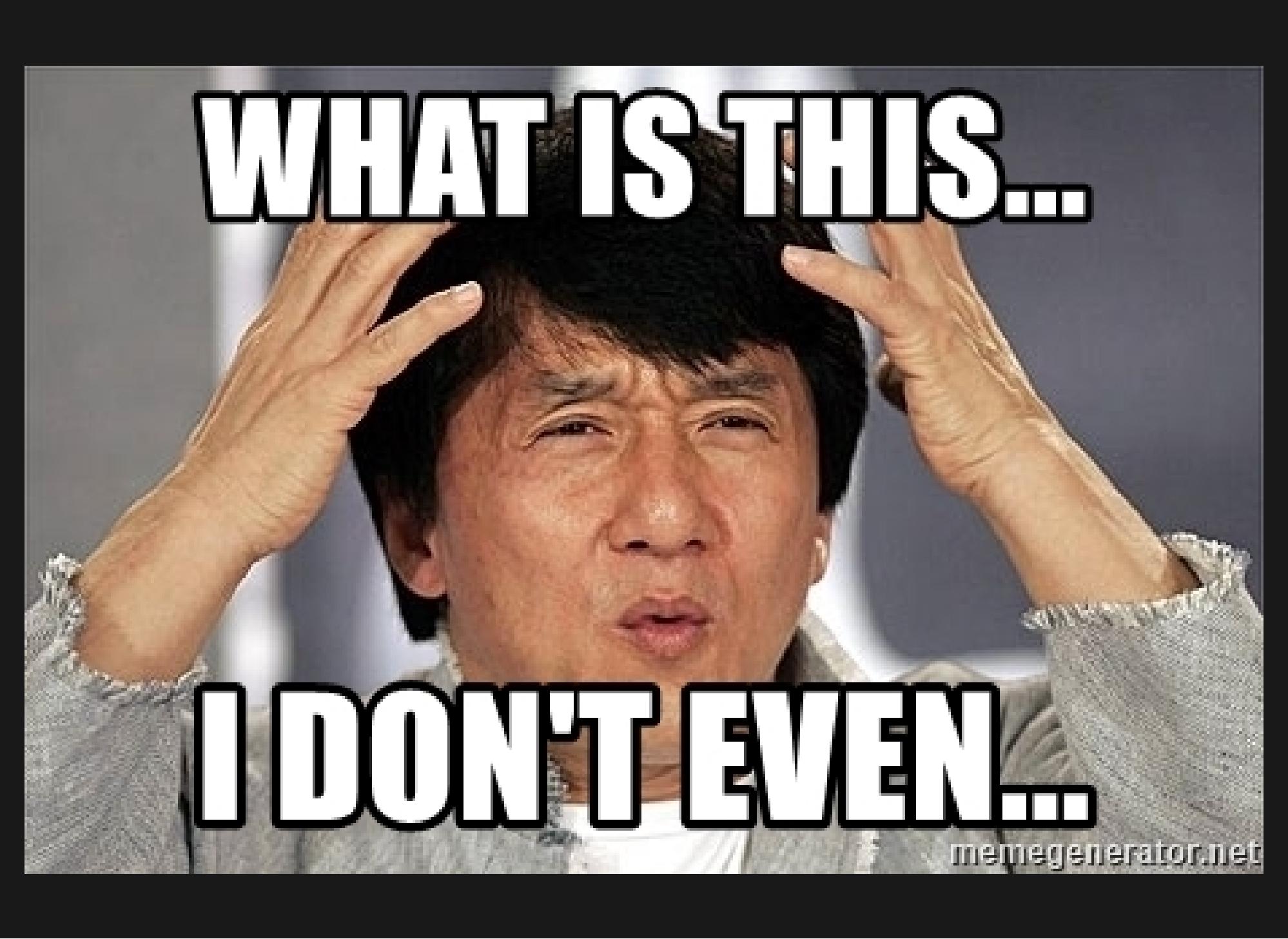
=====

It's not really a Zope / PIL issue, but rather an easy_install / PIL one which I think exposes a minor problem with PIL's setup.py which only shows up when installing with easy_install:::

```
$ tmp/bin/easy_install http://effbot.org/downloads/Imaging-1.1.7.tar.gz
...
Installed /data-devel/pil/tmp/lib/python2.6/site-packages/PIL-1.1.7-py2.6-macosx-10.6-i386.egg
Processing dependencies for PIL==1.1.7
Finished processing dependencies for PIL==1.1.7
```

We're unable to ``import PIL``:::

<https://mail.python.org/pipermail/image-sig/2010-August/006480.html>

A photograph of Jackie Chan from the chest up. He has dark hair and is wearing a light-colored, button-down shirt. His hands are raised to his head, fingers pointing upwards, with a look of confusion or exhaustion on his face.

WHAT IS THIS...

I DON'T EVEN...

TIMELINE

2010

Pillow 1.0

BUILDOUT

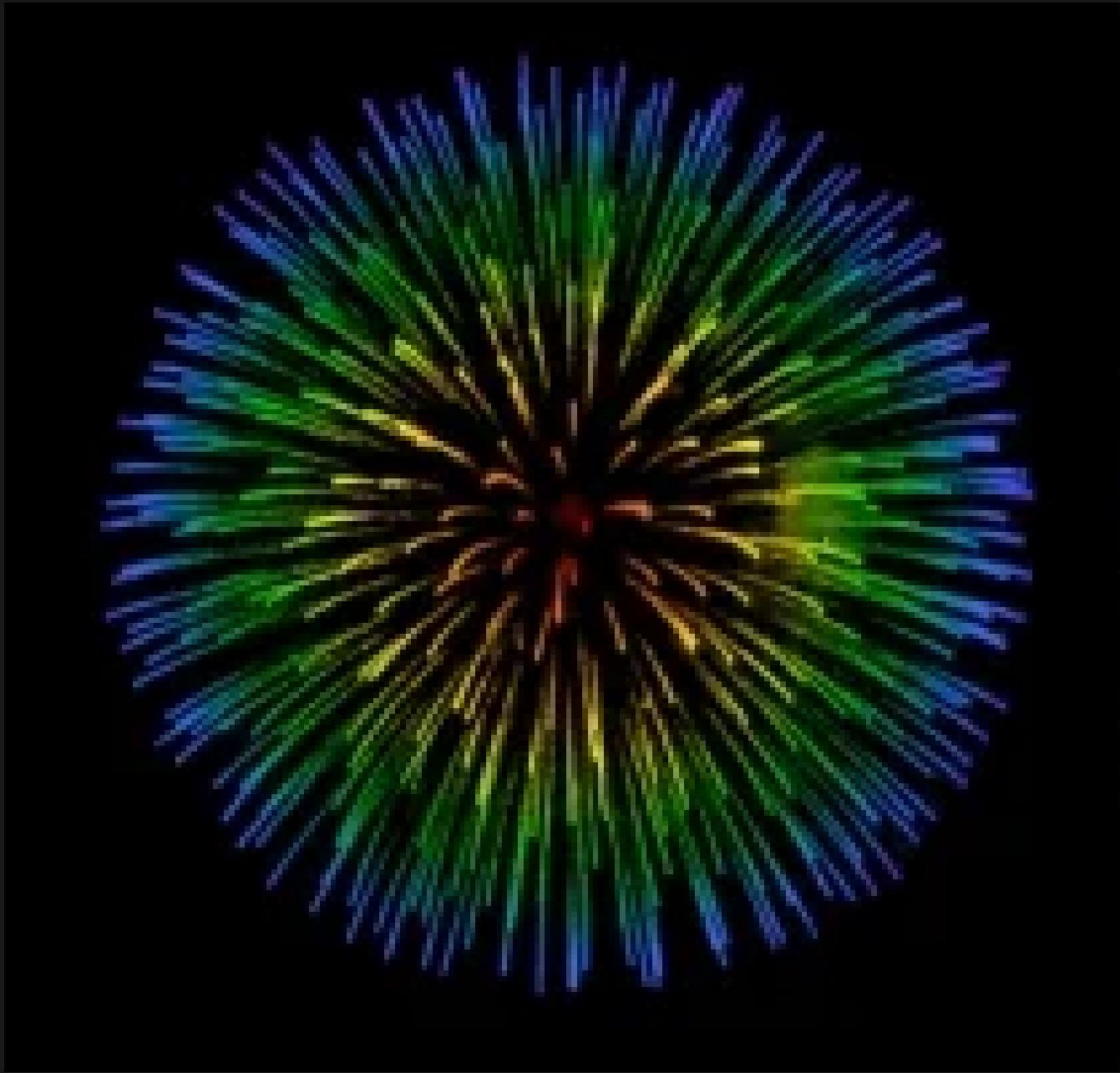
```
# buildout.cfg
[buildout]
parts = pillow

[pillow]
recipe = zc.recipe.egg
```

BUILDOUT

```
# buildout.cfg
[buildout]
parts = plone

[plone]
recipe = plone.recipe.zope2instance
eggs =
    Pillow
    Plone
```



TIMELINE

2010

Pillow 1.0

2012

Pillow 1.7.8

PACKAGING FORK

Pillow is a "friendly" fork of the Python Imaging Library. The goal is to see if any improvement can be made to the packaging situation by opening up development to the public.

—Alex Clark, Pillow 1.0 README

[Image-SIG] Pillow: the "unfriendly" fork?

Alex Clark [aclark at aclark.net](mailto:aclark@aclark.net)

Thu Dec 20 20:00:29 CET 2012

- Previous message: [\[Image-SIG\] Bug with jpeg image](#)
- Next message: [\[Image-SIG\] Pillow: the "unfriendly" fork?](#)
- **Messages sorted by:** [\[date\]](#) [\[thread\]](#) [\[subject\]](#) [\[author\]](#)

Folks,

I'm trying to mentally prepare for adding Python 3 support to Pillow before PyCon 2013. To do so, I plan to review the work that has been done here:

- <https://github.com/fluggo/Pillow>

Then merge and release.

<https://mail.python.org/pipermail/image-sig/2012->

UNFRIENDLY FORK?

Until this point, we've been attempting to track changes via "upstream" tickets in the hope that one day there'd be a new PIL release and we'd stop Pillow development. However I now suspect that the more likely scenario is that we will have to declare at some point that Pillow is "the unfriendly PIL fork", meaning that we will not continue to track changes in Pillow along with the "upstream" changes in PIL.

<https://mail.python.org/pipermail/image-sig/2012-December/007120.html>

- #38 by d-schmidt was merged on Jan 16, 2013
- fix minor bugfix**
#37 by d-schmidt was closed on Jan 11, 2013
- fix Bugfix + 3 features**
#36 by d-schmidt was merged on Jan 10, 2013
- fix Add Python 3.2 support**
#35 by fluggo was merged on Jan 10, 2013
- fix Python 3.2 support**
#34 by fluggo was closed on Jan 10, 2013
- fix fixed crash loading broken color profile from file-like object**
#33 by d-schmidt was merged on Jan 10, 2013
- fix Move custom path of JPEG_ROOT, TIFF_ROOT, etc. before system.**
#32 by lynx-r was merged on Jan 9, 2013

#38 by d-schmidt was merged on Jan 16, 2013

 **minor bugfix**

#37 by d-schmidt was closed on Jan 11, 2013

 **Bugfix + 3 features**

#36 by d-schmidt was merged on Jan 10, 2013

 **Add Python 3.2 support**

#35 by fluggo was merged on Jan 10, 2013

 **Python 3.2 support**

#34 by fluggo was closed on Jan 10, 2013

 **fixed crash loading broken color profile from file-like object**

#33 by d-schmidt was merged on Jan 10, 2013

 **Move custom path of JPEG_ROOT, TIFF_ROOT, etc. before system.**

#32 by lynx-r was merged on Jan 9, 2013

2.1.0

Jul 2, 2013

2.0.0

Mar 15, 2013

1.7.8

Nov 1, 2012

[org/project/Pillow/1.7.8/](#)

PYTHON 3 SUPPORT

The "little fork that could"

*Pillow >= 2.0.0 supports Python
versions: 2.6, 2.7, 3.2, 3.3*

*Pillow < 2.0.0 supports Python
versions: 2.4, 2.5, 2.6, 2.7*

TIMELINE

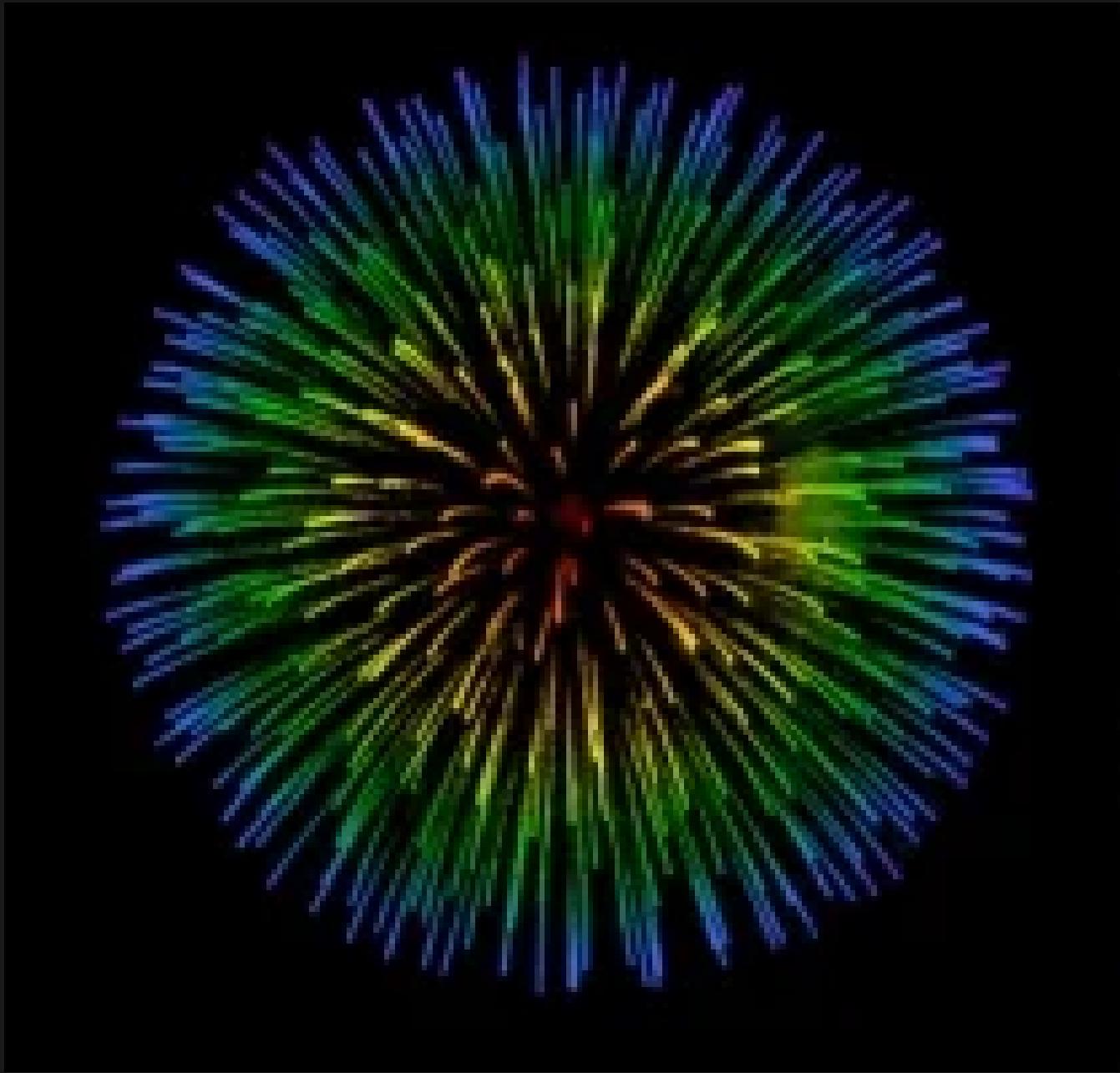
2013

Pillow 2.0 (Python 3
support!)

BRIAN CROWELL (FLUGGO)

Thank you!

<https://github.com/fluggo>



TIMELINE

2013

Pillow 2.0

2014

Pillow logo!

LOGO BY

ALASTAIR HOUGHTON

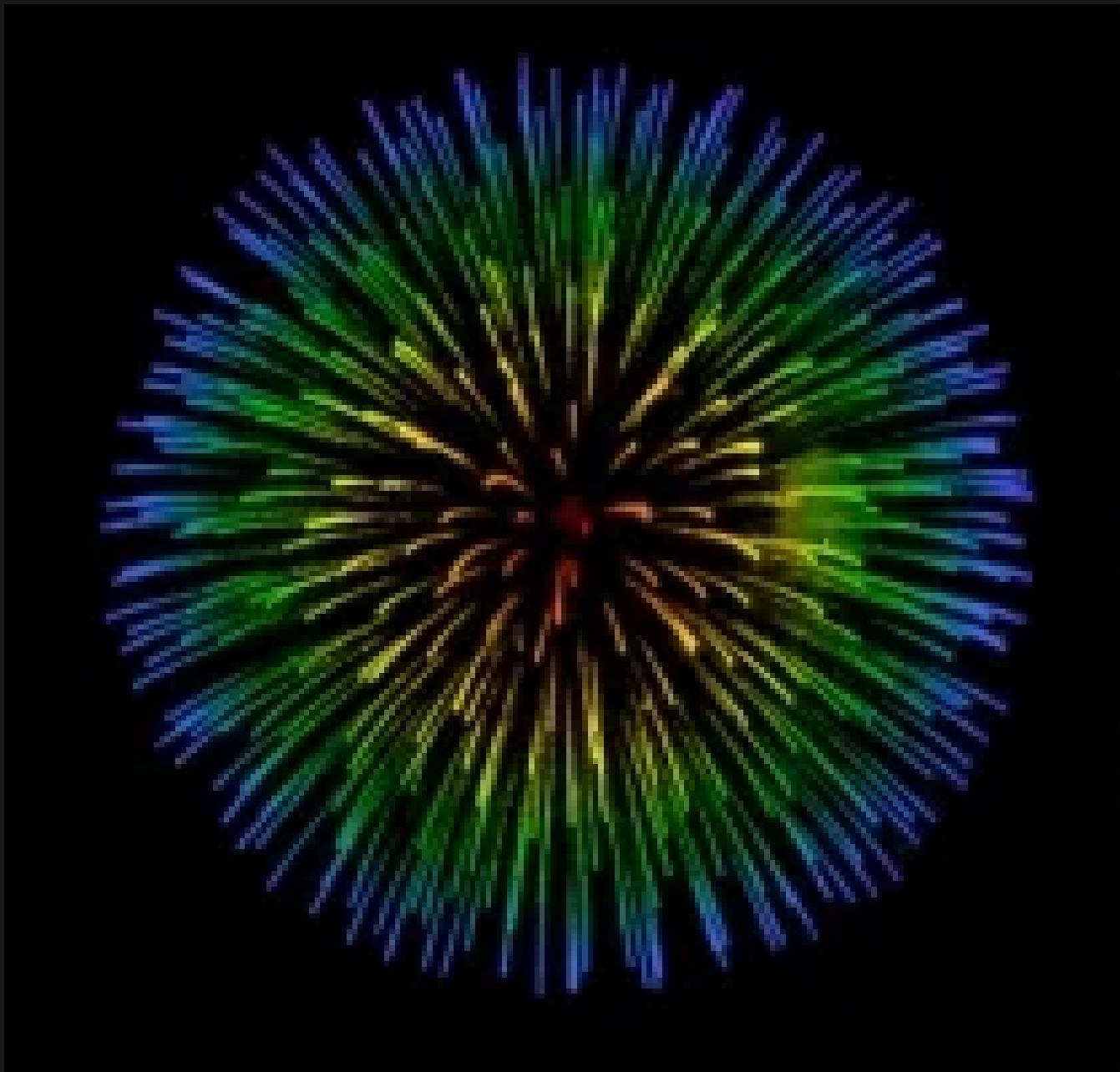
"Pillow should have a logo"

<https://github.com/python-pillow/Pillow/issues/575>

Mar 26, 2014



pillow



ARBITRARY MILESTONES ISSUE!

BY WIREDFOOL

*"We're at 2000 stars! Seems like only
last month that we were at 1000."*

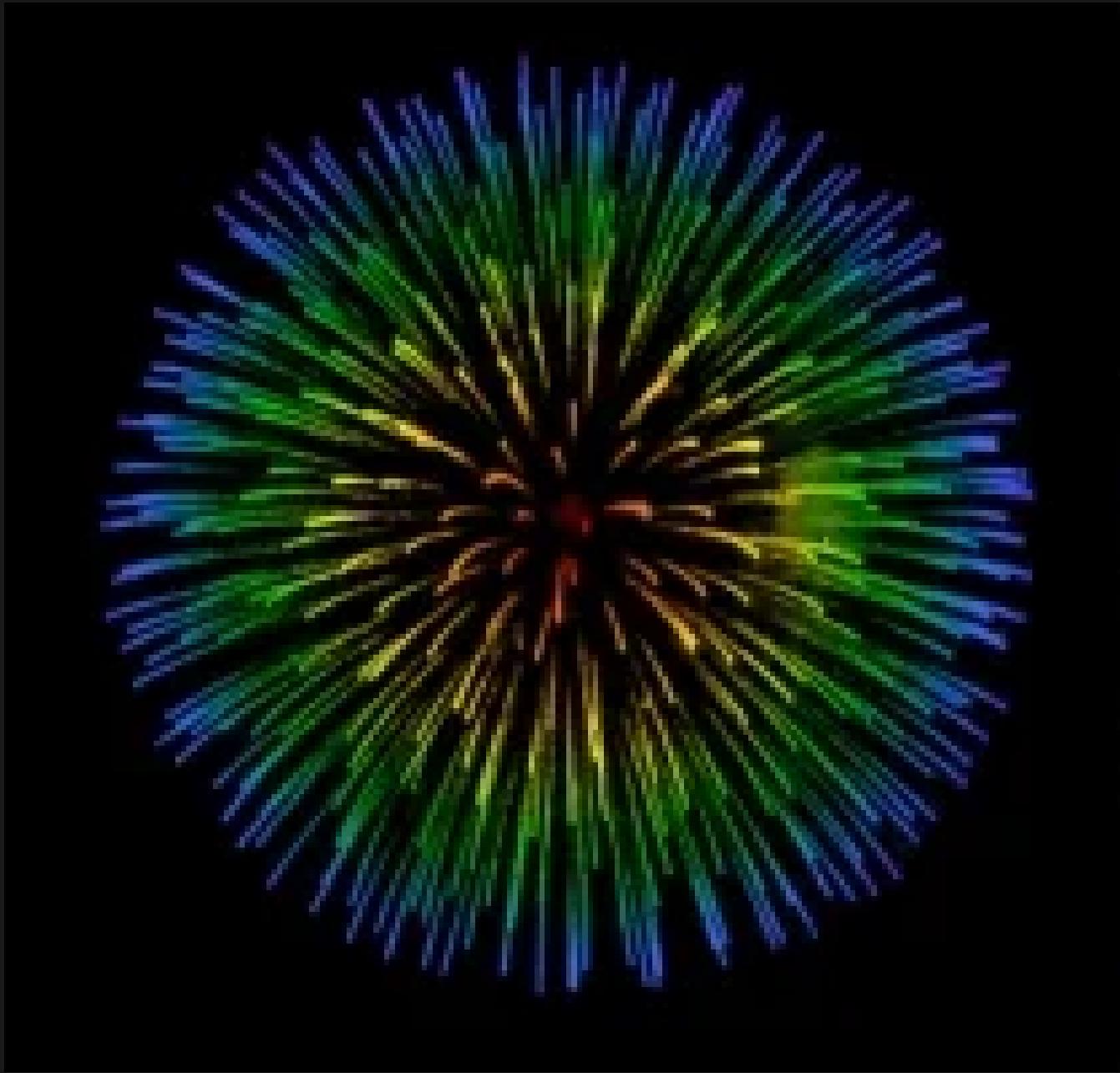
<https://github.com/python-pillow/Pillow/issues/1512>

Oct 27, 2015

MILESTONES

A screenshot of a GitHub comment card. At the top left is a purple and white profile icon. To its right, the username **hugovk** is followed by the text "commented on Jul 31". To the right of the date are three icons: a blue "Member" badge, a smiley face, and an ellipsis. The main body of the comment contains two paragraphs. The first paragraph starts with a cake emoji and the text "Happy 10th birthday to Pillow!". Below it is a bulleted list with one item: "• 2010-07-31 <https://mail.python.org/pipermail/image-sig/2010-July/006423.html>". The second paragraph starts with a cake emoji and the text "And a belated happy 25th to the original PIL!". Below it is another bulleted list with one item: "• 1995-06-15 <https://mail.python.org/pipermail/image-sig/2005-June/003377.html>". At the bottom left of the card is a small box containing a small cake emoji and the number "2", indicating two replies.

<https://github.com/python-pillow/Pillow/issues/1512>

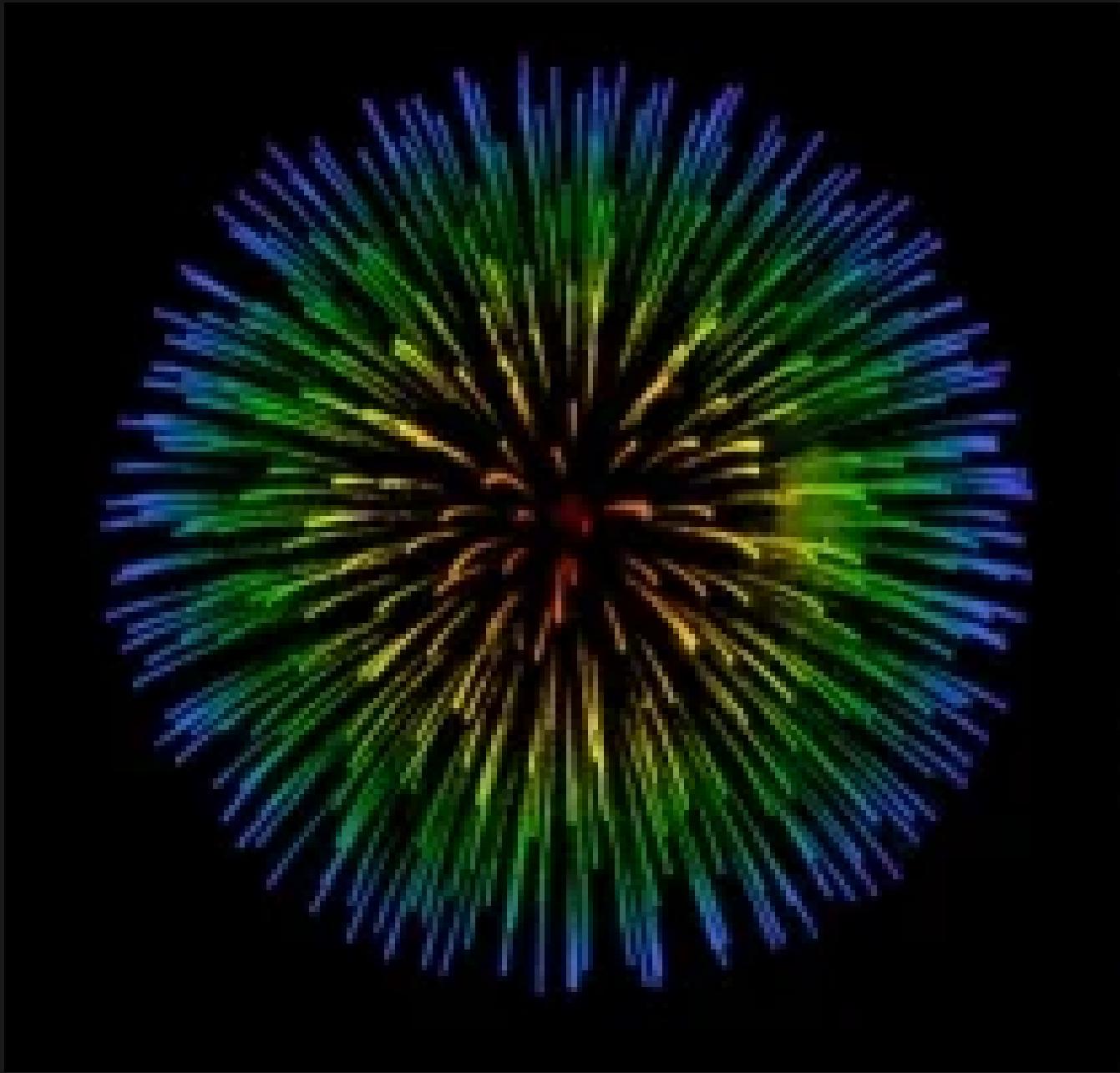


TIMELINE

2015

Pillow 2.7

RELEASE NOTES



RELEASE NOTES

5.2.0
5.1.0
5.0.0
4.3.0
4.2.1
4.2.0
4.1.1
4.1.0
4.0.0
3.4.0
3.3.2
3.3.0
3.2.0
3.1.2

- [Integer overflow in Resample.c](#)
- 3.1.0
 - [ImageDraw arc, chord and pieslice can now use floats](#)
 - [Consistent multiline text spacing](#)
 - [Exif, Jpeg and Tiff Metadata](#)
- 3.0.0
 - [Saving Multipage Images](#)
 - [Tiff ImageFileDirectory Rewrite](#)
 - [Deprecated Methods](#)
 - [LibJpeg and Zlib are Required by Default](#)
- 2.8.0
 - [Open HTTP response objects with Image.open](#)
- 2.7.0
 - [Sane Plugin](#)
 - [Png text chunk size limits](#)
 - [Image resizing filters](#)
 - [Image transposition](#)
 - [Gaussian blur and unsharp mask](#)
 - [TIFF Parameter Changes](#)

RELEASE NOTES

7.0.0

6.2.2

6.2.1

6.2.0

6.1.0

6.0.0

5.4.1

5.4.0

5.3.0

5.2.0

5.1.0

5.0.0

4.3.0

Read the Docs

v: stable ▾

- 3.3.0
 - Libimagequant support
 - New Setup.py options
 - Resizing
 - Rotation
 - Image Metadata
- 3.2.0
 - New DDS and FTEX Image Plugins
 - Updates to the GbrImagePlugin
 - Passthrough Parameters for ImageDraw.text
 - ImageSequence.Iterator changes
- 3.1.2
 - CVE-2016-3076 – Buffer overflow in Jpeg2KEncode.c
- 3.1.1
 - CVE-2016-0740 – Buffer overflow in TiffDecode.c
 - CVE-2016-0775 – Buffer overflow in FliDecode.c
 - CVE-2016-2533 – Buffer overflow in PcdDecode.c
 - Integer overflow in Resample.c

<https://pillow.readthedocs.io/en/stable/releasenotes/in>



New Setup.py options

There are two new options to control the `build_ext` task in `setup.py`:

- `--debug` dumps all of the directories and files that are checked when searching for libraries or headers when building the extensions.
- `--disable-platform-guessing` removes many of the directories that are checked for libraries and headers for build systems or cross compilers that specify that information in via environment variables.

RELEASE NOTES

7.1.0

7.0.0

6.2.2

6.2.1

6.2.0

6.1.0

6.0.0

5.4.1

5.4.0

5.3.0

5.2.0

5.1.0

5.0.0

4.3.0

- Tests
- 4.0.0
 - Python 2.6 and 3.2 Dropped
 - Support added for Python 3.6
 - OleFileIO.py
 - SGI image save
 - Zero sized images
 - Internal handles_eof flag
 - Image.core.stretch removed
- 3.4.0
 - New resizing filters
 - Deprecation Warning when Saving JPEGs
 - New DDS Decoders
 - Append images to GIF
 - Save multiple frame TIFF
 - Image.core.open_ppm removed
- 3.3.2
 - Integer overflow in Map.c
 - Sign Extension in Storage.c

RELEASE NOTES

4.3.0

4.2.1

4.2.0

4.1.1

4.1.0

4.0.0

3.4.0

3.3.2

3.3.0

3.2.0

3.1.2

3.1.1

3.1.0

 Read the Docs

v: stable ▾

- Other Changes

- 4.2.1
 - Fixed Windows PyPy Build
- 4.2.0
 - Added Complex Text Rendering
 - New Optional Parameters
 - New DecompressionBomb Warning
 - Removed Deprecated Items
 - Removed Core Image Function
- 4.1.1
 - Fix Regression with reading DPI from EXIF data
 - Incompatibility between 3.6.0 and 3.6.1
- 4.1.0
 - Removed Deprecated Items
 - Closing Files When Opening Images
 - Changes to GIF Handling When Saving
 - New Method: Image.remap_palette
 - Added Decoder Registry and Support for Python Based Decoders
 - Tests

<https://pillow.readthedocs.io/en/stable/releasenotes/index.html>

RELEASE NOTES

4.2.1

4.2.0

4.1.1

4.1.0

4.0.0

3.4.0

3.3.2

3.3.0

3.2.0

3.1.2

3.1.1

3.1.0

3.0.0

• Other Changes

- 5.2.0
 - API Changes
 - API Additions
 - Other Changes
- 5.1.0
 - New File Format
 - API Changes
 - Other Changes
- 5.0.0
 - Backwards Incompatible Changes
 - API Changes
 - API Additions
 - Other Changes
- 4.3.0
 - API Changes
 - API Additions
 - Other Changes

 Read the Docs

pillow - [View latest](https://pillow.readthedocs.io/en/stable/releasenotes/5.0.0.html)

<https://pillow.readthedocs.io/en/stable/releasenotes/5.0.0.html>

<https://pillow.readthedocs.io/en/stable/releasenotes/in>

RELEASE NOTES

6.2.1

6.2.0

6.1.0

6.0.0

5.4.1

5.4.0

5.3.0

5.2.0

5.1.0

5.0.0

4.3.0

4.2.1

...

 Read the Docs  stable — <https://pillow.readthedocs.io/en/stable/releasenotes/6.2.1.html>

- 6.0.0

- Backwards Incompatible Changes
- API Changes
- API Additions
- Other Changes

- 5.4.1

- Installation on Termux
- PNG: Handle IDAT chunks after image end
- PNG: MIME type
- File closing

- 5.4.0

- API Changes
- Other Changes

- 5.3.0

- API Changes
- API Additions
- Other Changes

<https://pillow.readthedocs.io/en/stable/releasenotes/in>

RELEASE NOTES

6.2.2

- 7.0.0
 - Backwards Incompatible Changes
 - API Additions
 - Other Changes

6.2.1

6.2.0

- 6.2.2

- Security

6.1.0

- 6.2.1

- API Changes

6.0.0

- Other Changes

5.4.1

- 6.2.0

- API Additions

5.4.0

- API Changes

5.3.0

- Security

5.2.0

- Other Changes

5.1.0

- 6.1.0

- Deprecations

5.0.0

- API Additions

4.3.0

- Other Changes

4.2.1

RELEASE NOTES

7.1.0	<ul style="list-style-type: none">• 8.0.1<ul style="list-style-type: none">◦ Security
7.0.0	<ul style="list-style-type: none">• 8.0.0<ul style="list-style-type: none">◦ Backwards Incompatible Changes◦ API Changes◦ API Additions◦ Other Changes
6.2.2	<ul style="list-style-type: none">• 7.2.0<ul style="list-style-type: none">◦ API Changes
6.2.1	<ul style="list-style-type: none">• 7.1.2<ul style="list-style-type: none">◦ Fix another regression seeking PNG files
6.2.0	<ul style="list-style-type: none">• 7.1.1<ul style="list-style-type: none">◦ Fix regression seeking PNG files
6.1.0	<ul style="list-style-type: none">• 7.1.0<ul style="list-style-type: none">◦ API Changes◦ API Additions◦ Security◦ Other Changes
6.0.0	
5.4.1	
5.4.0	
5.3.0	
5.2.0	
5.1.0	
5.0.0	
4.3.0	
4.2.1	

<https://pillow.readthedocs.io/en/stable/releasenotes/index.html>

QUARTERLY RELEASE SCHEDULE

"Pillow is released quarterly on January 2nd, April 1st, July 1st and October 15th. Patch releases are created if the latest release contains severe bugs, or if security fixes are put together before a scheduled release."

<https://pillow.readthedocs.io/en/stable/releasenotes/in>

5.3.0

Oct 1, 2018

5.2.0

Jul 1, 2018

5.1.0

Apr 2, 2018

5.0.0

Jan 1, 2018

<https://pillow.readthedocs.io/en/stable/releasenotes/index.html>

[python-pillow / Pillow](#)

 Code

 Issues 212

 Pull requests 32

 Actions

 Projects 1

Tidelift Funding #3469

 Closed

aclark4life opened this issue on Nov 18, 2018 · 29 comments



aclark4life commented on Nov 18, 2018

In late October, I got an email from @kszu @ @tidelift that read in part:

I'm reaching out because I'm connecting with active open source maintainers to be part of a new initiative at Tidelift, where we recently committed to paying \$1 million to open source maintainers with the maintainers of over 130 packages, including Python packages such as Cover, Fabric.

<https://github.com/python-pillow/Pillow/issues/3469>



radarhere commented 4 days ago

Member



Just to check - Tidelift is still due to finish up at the end of this year, yes?



aclark4life commented 4 days ago

Member

Author



@radarhere As far as I know, we're going to keep going in 2021 but I'll confirm



aclark4life commented 4 days ago

Member

Author



@radarhere Still going! Via @brennaheaps

<https://github.com/python-pillow/Pillow/issues/3469>

You received a payment from Tidelift



do.not.reply@hyperwallet.com

to me ▾

Thu, Dec 3, 10:30 AM (3 days ago)



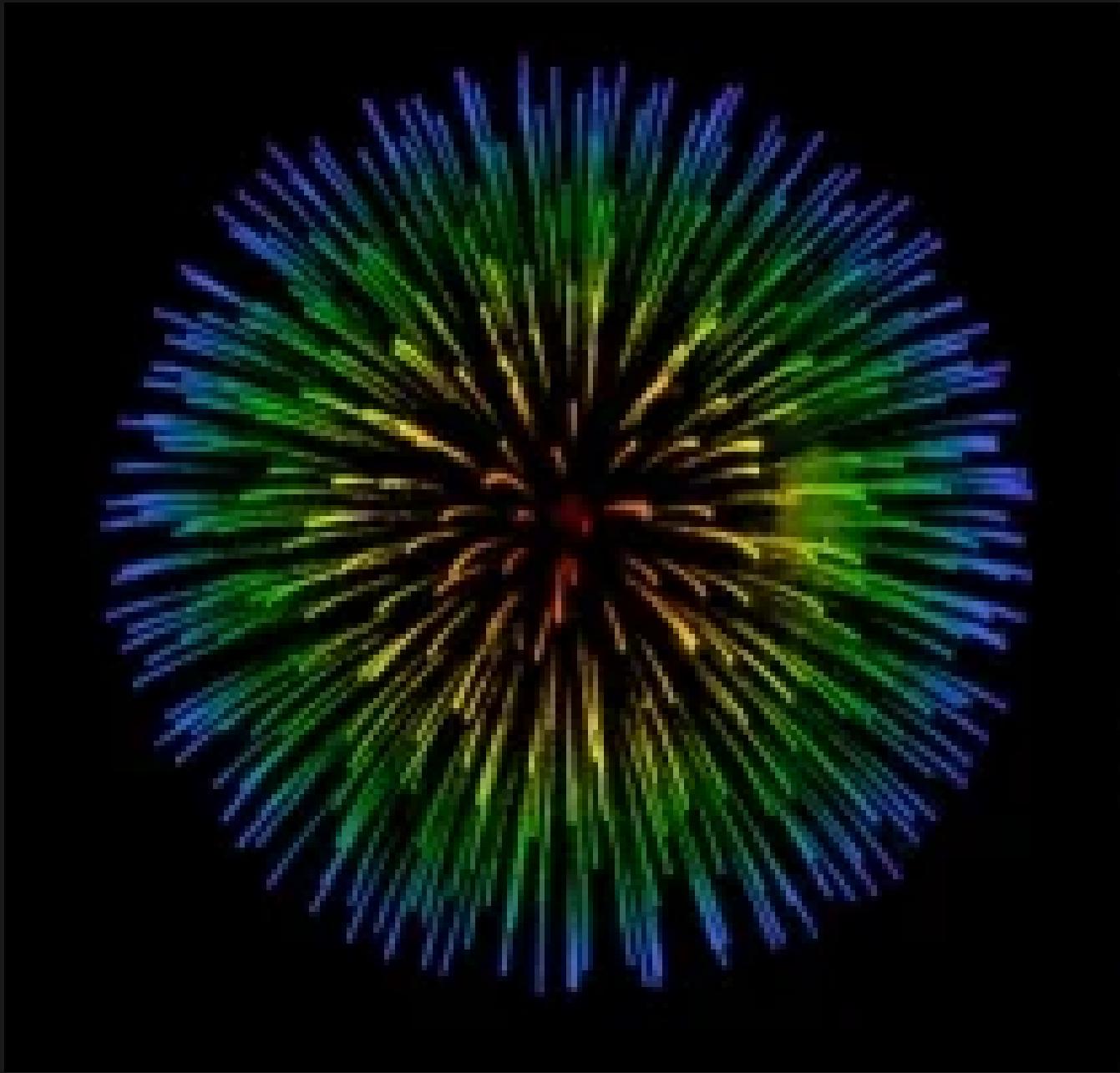
You received a payment from Tidelift

Hello [ACLARK.NET](#), LLC,

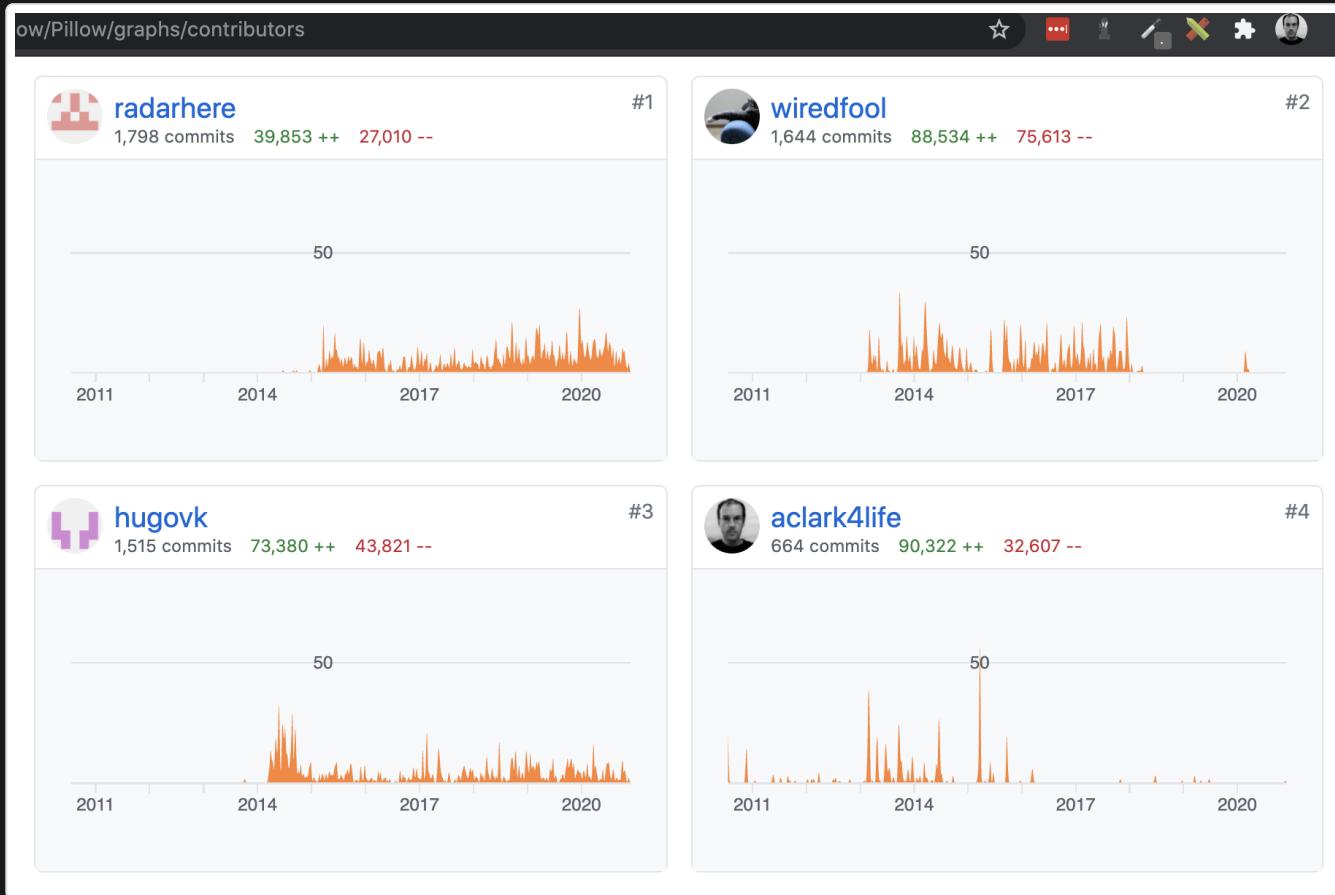
Tidelift has sent you a payment. Here are the details:

- **Amount:** \$145.54 USD
- **Date:** December 3, 2020

<https://www.tidelift.com/about/lifter>

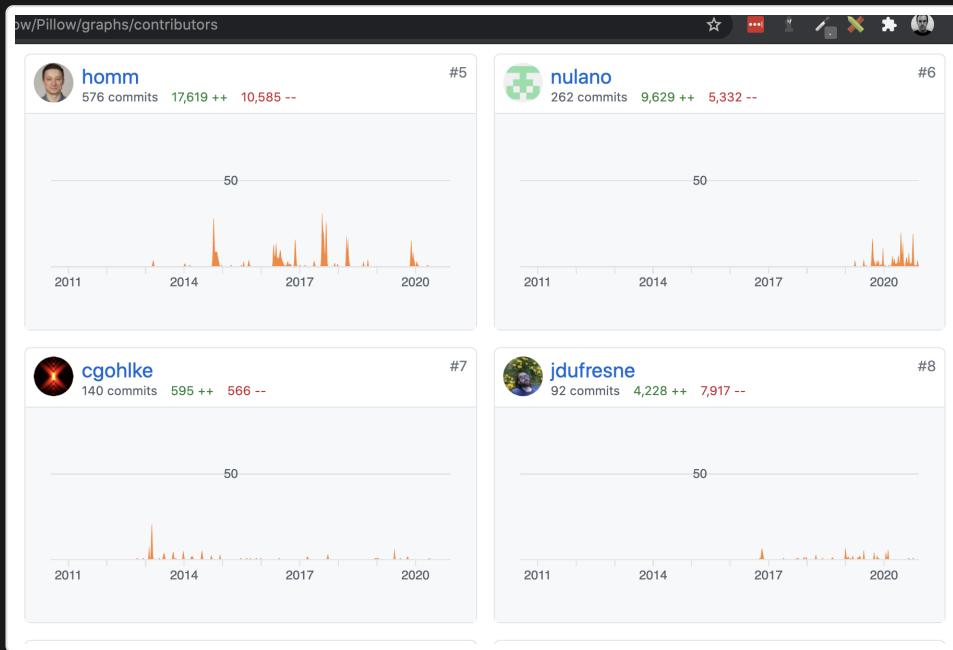


CONTRIBUTORS



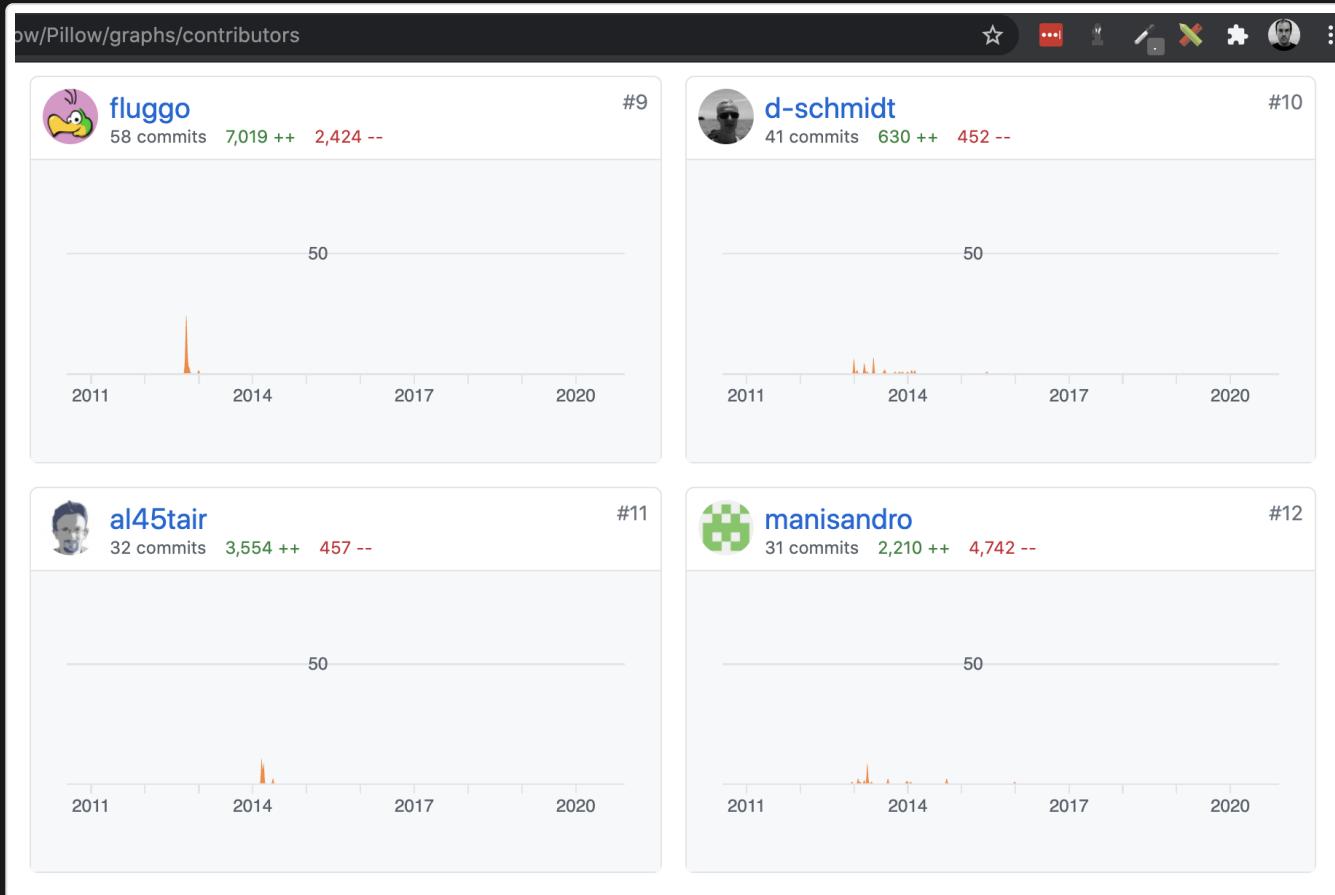
<https://github.com/python-pillow/Pillow/graphs/contributors>

CONTRIBUTORS



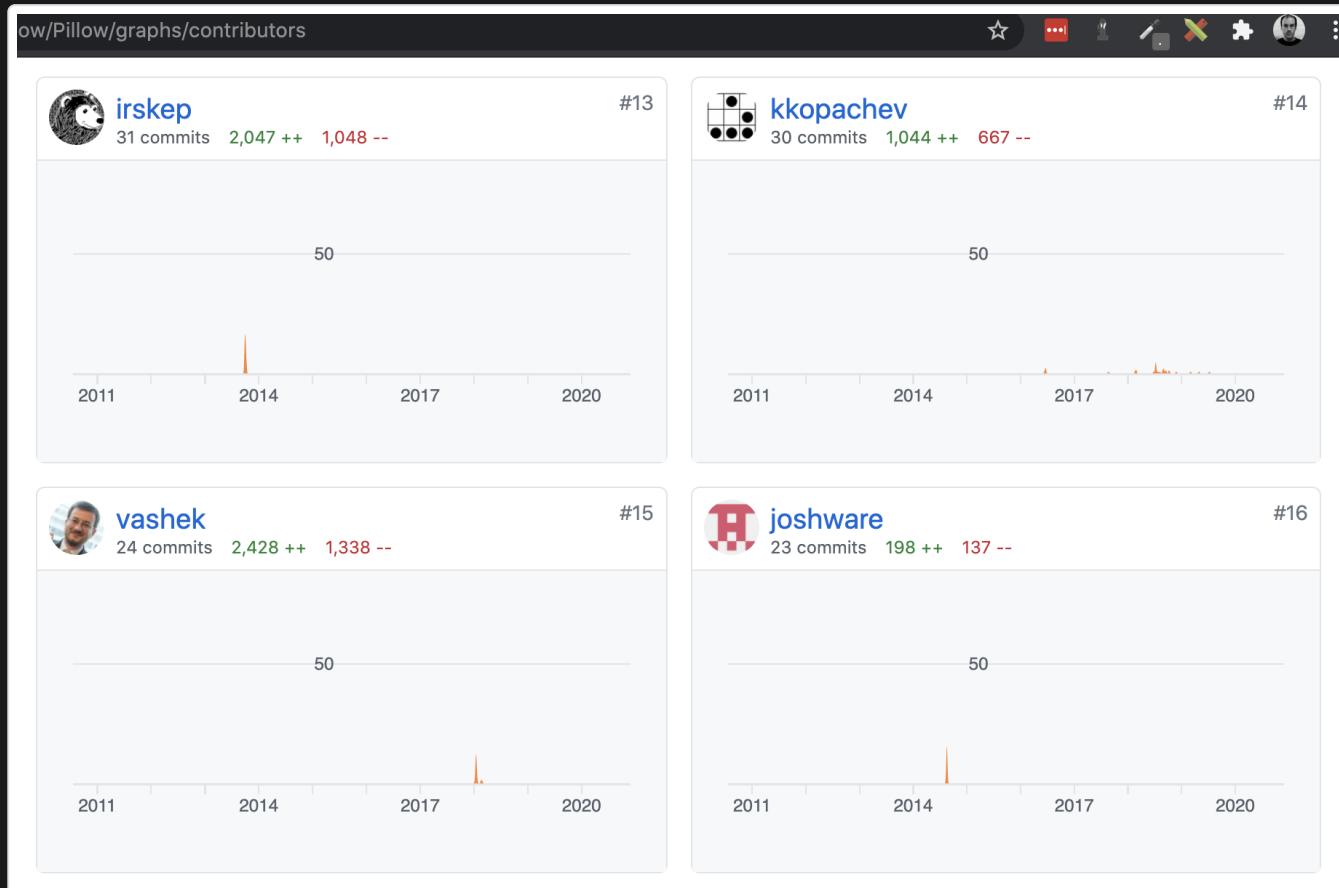
- <https://python-pillow.org/pillow-perf/>
- <https://www.lfd.uci.edu/~gohlke/pythonlibs/>
- <https://github.com/python-pillow/pillow-wheels>
- <https://github.com/jdufresne>

CONTRIBUTORS



<https://github.com/python-pillow/Pillow/graphs/contributors>

CONTRIBUTORS



<https://github.com/python-pillow/Pillow/graphs/contributors>

SO MANY
CONTRIBUTORS AND
USERS. THANK YOU.



Plone Conference @ploneconf · Oct 14

...

"The State of Pillow" sounds like a really good talk to [#ploneconf2020!](#)
The Call for Papers is still open, and the community misses you :-) 2020.ploneconf.org

Plone® Conference ONLINE



1

1

5





Alex Clark @aclark4life · Oct 14

How it started. How it's going.

ooo

The image shows two side-by-side Twitter cards. Both cards have a yellow header bar with the text "Join the official 2020 Python Developers Survey: Start the survey! 🚀". Below this is a navigation bar with a search icon, "Search projects", and links for "Help", "Sponsor", "Log in", and "Register".

Pillow 1.0 Card: The title is "Pillow 1.0". It features a red button with a white triangle pointing up and the text "Newer version available (8.0.0)". Below this is a "pip install Pillow" button. The release date is "Released: Jul 31, 2010". The project description starts with "Pillow" and describes it as a "friendly" fork of the Python Imaging Library. It includes a "Release history" link and a "Download files" link. The "Project links" section has a "Homepage" link. The "Statistics" section provides a link to view statistics via Libraries.io or Google BigQuery. The "Build instructions (all platforms)" section links to the CHANGES document. The "Recent changes" section is empty. The footer features a decorative bar with various icons.

Pillow 8.0.0 Card: The title is "Pillow 8.0.0". It features a green button with a white checkmark and the text "Latest version". Below this is a "pip install Pillow" button. The release date is "Released: about 2 hours ago". The project description starts with "Pillow" and describes it as a "Python Imaging Library (Fork)". It includes a "Release history" link and a "Download files" link. The "Project links" section has "Homepage", "Funding", "Source", and "Documentation" links. The "Statistics" section links to https://pypi.org/help/. The "Build instructions (all platforms)" section links to the CHANGES document. The "Recent changes" section is empty. The footer features a decorative bar with various icons.

Below the cards are engagement metrics: 6 replies, 7 retweets, 139 likes, and a share icon.

<https://twitter.com/aclark4life/status/131648017953190>

TIMELINE

2015

Pillow 2.7.0

2020

Pillow 8.0.1

THANK YOU



- Plone Conference 2020
- Plone Community
- [Tidelift](#)

CREDITS



- RevealJS
- w3schools.com
- Wayback Machine

ALEX CLARK



CREATOR OF PYTHON PILLOW

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 [state-of-pillow](#)