



pillow

+ ASWF

Presented to Academy Software Foundation (ASWF)
Technical Advisory Council (TAC) 3/20/24

PILLOW + ASWF

Please explain how this project is aligned with the mission of the Academy Software Foundation?

To explain this I'll cite this [blog entry](#), in which Cary Phillips said:

"Before the ASWF was established, the responsibility for fixing bugs and addressing security issues was resting solely on ILM. Now that responsibility is shouldered by people throughout the industry which is a much better position to be in."

Currently a 4-person team funded by Tidelift is responsible for fixing Pillow bugs and addressing security issues. The current funding is insufficient and so therefore the long term viability of Pillow has not been secured. Insomuch as the ASWF cares about the entire VFX Reference Platform, even small projects, our missions are aligned! **EDIT: this request is not exclusively about \$\$\$, although \$\$\$ would help. It's more about trying to get folks to care about and appreciate Pillow's role in the ecosystem.** 🙏

ABOUT ME



ABOUT ME



Me circa 1998 3 years after first PIL release

ABOUT ME



Me circa 1998 3 years after first PIL release

- Jeffrey A. Clark

ABOUT ME



Me circa 1998 3 years after first PIL release

- Jeffrey A. Clark
- Alex

ABOUT ME



Me circa 1998 3 years after first PIL release

- Jeffrey A. Clark
- Alex
- Bachelor of Science Computer Science 1998
Loyola University Maryland

ABOUT ME



Me circa 1998 3 years after first PIL release

- Python Pillow Creator 2010

ABOUT ME



Me circa 1998 3 years after first PIL release

- Python Pillow Creator 2010
- PIL fork author

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- Python Pillow Creator 2010
- PIL fork author (\uparrow same thing)
- Tidelift Lifter 2019

ABOUT ME



Me circa 1998 3 years after first PIL release

ABOUT ME



Me circa 1998 3 years after first PIL release

- Lifter

ABOUT ME



Me circa 1998 3 years after first PIL release

- Lifter 2019

ABOUT ME



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- Lifter 2019(actually late 2018)

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- Lifter Advocate

ABOUT ME



Me circa 1998 3 years after first PIL release

- Lifter 2019(actually late 2018)
- Lifter Advocate 2023

ABOUT ME



Me circa 1998 3 years after first PIL release

- Lifter 2019(actually late 2018)
- Lifter Advocate 2023, 2024

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- Lifter Advocate 2023, 2024

TIDELIFT

TIDELIFT

TIDELIFT



WHAT IS THIS?

VARIOUS THINLY VEILED ATTEMPTS

WHAT IS THIS?

VARIOUS THINLY VEILED ATTEMPTS

- Learn about VFX + open source

WHAT IS THIS?

VARIOUS THINLY VEILED ATTEMPTS

- Learn about VFX + open source
- Lifter Advocacy

WHAT IS THIS?

VARIOUS THINLY VEILED ATTEMPTS

- Learn about VFX + open source
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- Job in the industry

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PILLOW + ASWF

Please explain how this project is aligned with the mission of the Academy Software Foundation? (Take 2)

PILLOW + ASWF

Please explain how this project is aligned with the mission of the Academy Software Foundation? (Take 2)

- Establish relationship

PILLOW + ASWF

Please explain how this project is aligned with the mission of the Academy Software Foundation? (Take 2)

- Establish relationship
- Pillow + VFX

PILLOW + ASWF

(TAKE 2)

Please explain how this project is aligned with the mission of the Academy Software Foundation?

PILLOW + ASWF (TAKE 2)

Please explain how this project is aligned with the mission of the Academy Software Foundation?

- Outline benefits

PILLOW + ASWF

(TAKE 2)

Please explain how this project is aligned with the mission of the Academy Software Foundation?

- Outline benefits
- Pillow + ASWF

PILLOW + ASWF

Please explain how this project is aligned with the mission of the Academy Software Foundation? (Take 2)

PILLOW + ASWF

Please explain how this project is aligned with the mission of the Academy Software Foundation? (Take 2)

- Ask for help

PILLOW + ASWF

Please explain how this project is aligned with the mission of the Academy Software Foundation? (Take 2)

- Ask for help
- Infrastructure, community

HOW DID WE GET HERE?

HOW DID WE GET HERE?

Timeline

HOW DID WE GET HERE?

Timeline, starting late 2023

TIMELINE

THE LINUX FOUNDATION PROJECTS

ASWF /* ACADEMY SOFTWARE FOUNDATION

ABOUT COMMUNITY PROJECTS NEWS & EVENTS MEMBERS JOIN X in YouTube GitHub

Blog MaterialX Open Review Initiative OpenColorIO OpenEXR

Academy Software Foundation Announces Dev Days, October 12-13

By Academy Software Foundation | October 4, 2023



The Academy Software Foundation is excited to announce our newest event: [Dev Days](#), a 48-hour global event encouraging developers of all experience levels to learn more about our open source projects, connect with mentors and project leads, and of course, write code!

Dev Days will take place virtually on October 12-13, with participating projects including [MaterialX](#), [OpenColorIO](#), [OpenImageIO](#), [OpenEXR](#), and the [Open Review Initiative](#). The event is specifically designed for developers who may be new to the open source space, or to the entertainment industry. The Academy Software Foundation's projects all play a critical role in many of the industry's visual effects and animation pipelines, and we look forward to fostering new involvement in this thriving open source community.

TIMELINE



[FEATURE REQUEST] pip install OpenImageIO #3249

[New issue](#)[Open](#)

c0ffymachyne opened this issue on Dec 28, 2021 · 29 comments



c0ffymachyne commented on Dec 28, 2021

...

Hi,

Please automate and unify python builds and make it available via `pip install OpenImageIO`
Exemplary project providing build for all possible python versions under releases: <https://github.com/isl-org/Open3D/releases/tag/v0.14.1>



c0ffymachyne changed the title `pip-install OpenImageIO` [FEATURE REQUEST] `pip install OpenImageIO` on Dec 28, 2021

Igritz added `help wanted` `python` labels on Dec 29, 2021



Igritz commented on Dec 29, 2021

Collaborator

...

This would be a great thing. But it's well outside my expertise, so what I really need is for somebody who has more Python ecosystem knowledge, preferably somebody who has done this exact thing on another project, to step forward and take the lead on this task. I think that this has recently been done on both OpenColorIO and OpenTimelineIO, so maybe there is somebody who both works on those projects and OIIO and would like to give this a try and can do it efficiently since they already know how it works?

**Assignees**

No one assigned

Labels **Projects**

None yet

Milestone

No milestone

Development

No branches or pull requests

Notifications

Customize

Unsubscribe

You're receiving notifications because you were mentioned.

11 participants

TIMELINE



Academy Software Found...



More

- Threads
- Drafts & sent
- Channels
 - # color-interop-forum
 - # devdays
 - # general
 - # materialx
 - # openexr
 - # openimageio
 - # opentimelineio
 - # pipeline
 - # random
 - # rez
 - # wg-ci
 - # wg-usd
 - # wg-usd-assets
- + Add channels
- Direct messages
- + Add coworkers
- Apps
- + Add apps



devdays

3 Pinned + Add a bookmark



Sean McDuffee 2:25 PM

joined #devdays.

October 13th, 2023



Sean McDuffee 2:27 PM

Hi Everybody - Intel is having some delays in getting the CLA's sorted internally - slower process than I'd like. We will get this flushed out though so the PRs can get submitted

3 1

1 reply 5 months ago



Olga Avramenko 4:36 PM

Hello everyone!

Just a gentle reminder to keep your **project teams** updated on how things are going. If you're getting stuck, or just want some feedback, please send a message in the project specific chats.

Please do also give a general update if things are going well! I think everyone is curious to see how other people are getting on 😊💪

2



Jeffrey A. Clark 4:46 PM

My progress so far declared "a great start!" Thanks @Jean-Christophe Morin 😊 Excited to make it this far in 2 days TBH. <https://github.com/AcademySoftwareFoundation/OpenImageIO/pull/4011#pullrequestreview-1677308401>

5



2 replies Last reply 5 months ago



Dave Campbell 7:42 PM

joined #devdays. Also, Anders Degerberg and Valerio Viperino joined.

October 26th, 2023



Jeffrey A. Clark 3:12 PM

Anyone working on a dev days summary report? Just curious if we should expect something formal about work accomplished. I definitely enjoyed it and am planning to continue working on my dev days task. 😊

2 replies Last reply 5 months ago

October 31st, 2023



Mike Brainerd 12:00 PM

joined #devdays. Also, Yarille Ortiz and 6 others joined. Jeffrey A. Clark rejoined. Kerby Geffrard left.

Message #devdays



0

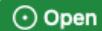
105

60

1

Canvas

TIMELINE

 Open

[FEATURE REQUEST] pip install OpenImageIO #3249
c0ffymachyne opened this issue on Dec 28, 2021 · 29 comments



JeanChristopheMorinPerso commented on Oct 11, 2023

Member ...

Hi [@aclark4life](#), it's a little bit difficult to point to which commit can be cherry picked. The commits were made organically and not methodologically. I tried to be methodical, but this evolved through the commits. So here are some hints:

I think my modifications to [CMakeLists.txt](#) (and the other cmake files), [conanfile.txt](#), the pyproject.toml + setup.py can probably be taken as is (or setup.py dropped if we can use `scikit-build-core`). The patch on OCIO is probably not needed anymore, the `/MT` flags are probably not needed anymore (if we target Python 3+). I would personally keep https://github.com/JeanChristopheMorinPerso/oilio/compare/master..python_wheels_windows#diff-43abf0e22a47875cd78c49ee12eb52a081009b929a76e48a8589ae393549adeb and only tweak what's needed (like the dependency versions, ocio, pugixml, etc).



taranlu-houzz commented on Nov 22, 2023

...

[@aclark4life](#) [@JeanChristopheMorinPerso](#) Hello, just curious if there has been any progress on this? I also tried looking into building the most recent release (2.5.5.0) using `conan`, but the current config does not seem to work (tried using `conan 1.62.0` and `2.0.14`). Both seemed to have different issues with the deps. Basically, I am interested in building a version of `ocio` that is compatible with Python 3.10 so that it can interoperate with Blender.



aclark4life commented on Nov 22, 2023

...

[@taranlu-houzz](#) Loosely targeting end-of-year to finish something that can be merged.



1

TIMELINE

 Open

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...

[@taranlu-houzz](#) Loosely targeting end-of-year to finish something that can be merged.



TIMELINE

Igritz commented 6 hours ago

Wondering what the progress on this is, or what roadblocks exist that we can help with. It might be nice to have this solved once and for all by the time of the 3.0 release this fall.

aclark4life commented now

@Igritz Sorry, got sidetracked but still interested in completing, and fall is super reasonable. I'm [pitching Pillow project to TAC today](#) during which time I'll mention my status:

- Pillow has no C++ and does not use CMake, but we do have some C code and we do have an elaborate GHA infrastructure already in place for deploying wheels to PyPi via Trusted Publisher: <https://github.com/python-pillow/Pillow/blob/main/.github/workflows/wheels.yml>
- Other ASWF projects seem to be slightly ahead in publishing wheels e.g. OpenEXR <https://github.com/AcademySoftwareFoundation/openexr/blob/main/.github/workflows/python-wheels-publish.yml>
- All ASWF projects should share a common infrastructure for publishing wheels via Trusted Publisher and I'd like to continue to help build that infrastructure.

TIMELINE

6 replies Last reply 6 days ago

Tuesday, March 12th

Sue - Mari Sauer 6:53 AM
Hey all, is there a channel for opencolorio? I'm having build issues with python 3.10 wanted to ask some questions (edited)

Elise Olavsen 7:31 AM
joined #general. Also, maxd joined.

Jeffrey A. Clark 2:10 PM
Hey all! 🙌 Given it's [small role in VFX pipelines](#) compared to the [big players](#), is there any chance that Python Pillow may be looked upon *just favorably enough to make it worthwhile* to fill out [this proposal form](#)? I assume "no" is going to be the answer but it can't hurt to ask. 😊 Thanks for any info. EDIT: actually I'm just going to fill it out 😂 (edited)

/* Academy Software Foundation TAC Project Contribution Proposal Template
Materials and processes for the Academy Software Foundation TAC

17 replies Last reply 20 hours ago

**WE ARE ALREADY
ALIGNED!**

SPECIFIC ALIGNMENTS

org:AcademySoftwareFoundation pillow

10 files

The screenshot shows a GitHub search results page with the query "org:AcademySoftwareFoundation pillow". The results list 10 pull requests:

- Pull request #10**: AcademySoftwareFoundation/pillow - CodingReview.ind (1 file) - 31 commits. Status: Drafted - 27 files.
- Pull request #9**: AcademySoftwareFoundation/pillow - Archiving-agenda-items (1 file) - 31 commits. Status: Drafted - 27 files.
- Pull request #8**: AcademySoftwareFoundation/pillow - encodingREACH.ind (1 file) - 24 commits. Status: Drafted - 27 files.
- Pull request #7**: AcademySoftwareFoundation/pillow - docxProp-6-Miscell (1 file) - 56 commits. Status: Drafted - 27 files.
 - File content:

```
re = re.compile(r'^[0-9]{1,2}[.]([0-9]{1,2})$')
```
- Pull request #6**: AcademySoftwareFoundation/pillow - docxProp-6-DocHeader (1 file) - 14 commits. Status: Drafted - 27 files.
 - File content:

```
_url = options['theme'].options['font'].get('fontFamily', 'serif').lower()
```
- Pull request #5**: AcademySoftwareFoundation/pillow - controlsPermissions_controlBackground_head_summary (1 file) - 12 commits. Status: Drafted - 27 files.
 - File content:

```
def __init__(self, *args, **kwargs):  
    super().__init__(*args, **kwargs)  
    self._report_type = None  
    self._report_type_is_set = False  
    self._report_type_is_set = True
```
- Pull request #4**: AcademySoftwareFoundation/pillow - docxProp-6-DocHeader (1 file) - 56 commits. Status: Drafted - 27 files.
 - File content:

```
re = re.compile(r'^[0-9]{1,2}[.]([0-9]{1,2})$')
```
- Pull request #3**: AcademySoftwareFoundation/pillow - pythonMaterializeNodes_to_html (1 file) - 12 commits. Status: Drafted - 27 files.
 - File content:

```
def __init__(self, *args, **kwargs):  
    super().__init__(*args, **kwargs)  
    self._image_is_set = False  
    self._image_is_set = True
```
- Pull request #2**: AcademySoftwareFoundation/pillow - docxProp-6-Attachment (1 file) - 56 commits. Status: Drafted - 27 files.
 - File content:

```
re = re.compile(r'^[0-9]{1,2}[.]([0-9]{1,2})$')
```
- Pull request #1**: AcademySoftwareFoundation/pillow - docxProp-6-DocHeader (1 file) - 56 commits. Status: Drafted - 27 files.
 - File content:

```
options['theme'].options['font'].options['fontStyle'].options['fontStyle'] = 'italic'
```

org:AcademySoftwareFoundation pillow

8 results

Filter by

- Code 10
- Repositories 0
- Issues 8
- Pull requests 9
- Discussions 0
- Users 0
- More

State

- Open
- Closed

Advanced

- Owner
- State
- Close reason
- Has linked pull request
- Author
- Assignee
- Mentioned user
- Mentioned team
- Commenter
- Involved user
- Label
- Milestone
- Number of comments
- Number of interactions

Advanced search

Sort by: Best match ▾ Save ⚙

AcademySoftwareFoundation/pillow

New Project Proposal - Pillow
... is shoulderered by people throughout the industry which is a much better position to be in. Currently a 4-person team funded by Tidelift is responsible for fixing Pillow bugs and addressing security ...
[#new-project-wg](#)

aclark/tidifl - 4 · Opened 6 days ago · #631

AcademySoftwareFoundation/rez

rez-pip AttributeError: 'NoneType' object has no attribute 'lower' error
bug · rez-pip
est77 - 5 · Opened on Apr 27, 2017 · #419

AcademySoftwareFoundation/rez

Misleading package conflicts error message
... My basic cool_package requires [python>3 , Pillow , PySide2 , zzz], there is no osx variant for Pillow or zzz (a fake package that I made).
...
bug · rez-env
hughesop - 4 · Opened on Jul 20, 2022 · #1350

AcademySoftwareFoundation/OpenImageIO

[FEATURE REQUEST] pip install OpenImageIO
help wanted · python
cottymachne - 29 · Opened on Dec 28, 2021 · #3249

AcademySoftwareFoundation/OpenImageIO

[BUG] Loosing colors when alpha=0 for png
champeit - 7 · Opened on Jul 20, 2023 · #3917

AcademySoftwareFoundation/openvdb

***free(): invalid pointer* when importing pyopenvdb**
... pexect 4.8.0 pypi_0 pyplishare 0.7.5 pypi_0 pypl pillow 9.1.0 pypi_0 pypl pip ...
raynate - 2 · Opened on Oct 21, 2022 · #1555

AcademySoftwareFoundation/OpenColorIO-Config-ACES

Docker build error: pygraphviz
... Downloading packaging-21.0-py3-none-any.whl (40 kB) Collecting Pillow==8.3.0 Downloading Pillow-8.3.0-cp37-cp37m-manylinux_2_17_x86_64.manylinux1_x86_64.whl (3.0 MB) Collecting pip==21.1.1 Downloading pip ...
ghoer - 2 · Opened on Aug 20, 2021 · #24

AcademySoftwareFoundation/OpenImageIO

Question is related to 16-bit image, having trouble to save 16-bit image in JPEG including compression in python environment
... = instance._bytes_to_buffer._org.getvalue() Before I was using Pillow library to save image bytes in jpeg compression for the 8-bit image but now I have a 16-bit image therefore, I can't use the PIL library anymore ...
Yuri-416 - 9 · Opened on May 6, 2021 · #2964

org:AcademySoftwareFoundation pillow

9 results

Filter by

 Code 10 Repositories 0 Issues 8 Pull requests 9 Discussions 0 Users 0 More

State

 Open Closed

Languages

 Python C++ More languages...

Advanced

 Owner State CI status Review status Close reason Author Assignee Mentioned user Mentioned team Commenter Involved user Label Milestone Number of comments Number of interactions Merged Not merged Advanced search

9 results (162 ms) in AcademySoftwareFoundation

Sort by: Best match Save

AcademySoftwareFoundation/OpenColorIO-Config-ACES

 Bump pillow from 9.2.0 to 9.3.0 dependencies dependabot[bot] · 2 · Opened on Nov 15, 2022 · #89

AcademySoftwareFoundation/OpenColorIO-Config-ACES

 Bump pillow from 8.3.0 to 9.0.1 dependencies dependabot[bot] · 2 · Opened on Mar 11, 2022 · #40

AcademySoftwareFoundation/OpenColorIO-Config-ACES

 Bump pillow from 8.3.0 to 9.0.0 dependencies dependabot[bot] · 3 · Opened on Jan 12, 2022 · #36

AcademySoftwareFoundation/OpenColorIO-Config-ACES

 Bump pillow from 8.3.0 to 8.3.2 dependencies dependabot[bot] · 2 · Opened on Sep 7, 2021 · #33

AcademySoftwareFoundation/rez

 WIP Implement support for multiple packages with rez-pip install

... rez pip --install --release ^ Cython ^ Jinja2 ^ MarkupSafe ^ Pillow ^ PySide ^ Qt.py ^ blockdiag ^ certifi ^ excel ^ funcparserlib ^ lockfile ^ lxml ^ ...

 mottosso · 2 · Opened on Apr 17, 2019 · #696

AcademySoftwareFoundation/rez

 WIP Feature|pip wheels windows

... --install --release --use-wheel ^ Cython ^ Jinja2 ^ MarkupSafe ^ Pillow ^ PySide ^ Qt.py ^ blockdiag ^ certifi ^ excel ^ funcparserlib ^ lockfile ...

 mottosso · 1 · Opened on Apr 18, 2019 · #699

AcademySoftwareFoundation/OpenTimelineIO

 Add support for AAF unit tests in travis.

... run - Adjusted the import name on Pillow, which seems to have changed in recent versions of the library. - Added the mock library as a dependency (needed for several unit tests in core ...

 steinbach · 1 · Opened on Nov 9, 2018 · #370

AcademySoftwareFoundation/OpenTimelineIO

 Add check to see if PIL is importable before running tests. steinbach · 1 · Opened on Nov 10, 2017 · #179

AcademySoftwareFoundation/OpenColorIO

 Add Docker reference build environment

... base 515 k python-bmlm x86_64 3.2.1-4.el7 base 758 k python-markupsafe x86_64 0.11-10.el7 base 25 k python-pillow ...

 scoopxyz · 7 · Opened on Dec 1, 2017 · #489

org:Netflix pillow



org:Netflix pillow



Filter by

- <> Code 6
- Repositories 0
- Issues 3
- Pull requests 13
- Discussions 0
- Users 0
- More

Languages

- Text
- Python
- Markdown
- Jupyter Notebook
- More languages...

Repositories

- Netflix/atlas-docs
- Netflix/clove
- Netflix/metaflow
- Netflix/metaflow-docs
- More repositories...

Paths

- docs/api/
- ...flow/plugins/cards/card_modules/

6 files (495 ms) in Netflix X

Save ...

 Netflix/atlas-docs · requirements.txt	Text · ⌂ main
18 mkdocs-material-extensions==1.1.1 19 mkdocs-minify-plugin==0.6.4 20 packaging==23.1 21 Pillow==10.2.0 22 Pygments==2.15.1 23 pymdown-extensions==10.1 24 python-dateutil==2.8.2	
 Netflix/metaflow · metaflow/plugins/cards/card_modules/components.py	Python · ⌂ master
276) 277 ... 278 279 Example: Create an `Image` from a [PIL](https://pillow.readthedocs.io/) Image 280 ... 281 from PIL import Image as PILImage 282 current.card.append(
 Netflix/metaflow-docs · docs/api/cards.md	Markdown · ⌂ master
118 ...n```\n\nExample: Create an `Image` from a [PIL](https://pillow.readthedocs.io/) Image\nfrom PIL import Image as P...	
 Netflix/clove · src/training/zero_shot_metadata.py	Python · ⌂ main
218 "pajamas", "palace", "pan flute", "paper towel", "parachute", "parallel bars", "park bench", 219 "parking meter", "railroad car", "patio", "payphone", "pedestal", "pencil case", 220 "pencil sharpener", "perfume", "Petri dish", "photocopier", "pectrum", "Pikelhaube", 221 "picket fence", "pickup truck", "pier", "piggy bank", "pill bottle", "pillow", "ping-pong ball", 222 "pinwheel", "pirate ship", "drink pitcher", "block plane", "planetarium", "plastic bag", 223 "plate rack", "farm plow", "plunger", "Polaroid camera", "pole", "police van", "poncho", 224 "pool table", "soda bottle", "plant pot", "potter's wheel", "power drill", "prayer rug",	

org:amazonlinux pillow

Filter by

<> Code 7

Repositories 0

Issues 0

Pull requests 0

Discussions 0

Users 0

More

Advanced

Owner

Symbol

Exclude archived

Advanced search

7 files (134 ms) in [amazonlinux](#) X

Save ...

amazonlinux/amazon-linux-2023 · Release-Notes-Amazon-Linux-2023.1.20230705.md • Markdown · ⌂ main

```
888 | python3\pillow | aarch64 | python\pillow | al2023 | 9\.0\.1 | amazonlinux/amazon-linux-2023 · Release-Notes-Amazon-Linux-2023.1.20230705.md
889 | python3\pillow | x86\_64 | python\pillow | al2023 | 9\.0\.1\~6\.amzn2023\.0\.3 | 9\.4\.0\~2\.amzn2023\.0...
890 | python3\pillow\devel | aarch64 | python\pillow | al2023 | 9\.0\.1\~6\.amzn2023\.0\.3 | 9\.4\.0\~2\.amzn...
891 | python3\pillow\devel | x86\_64 | python\pillow | al2023 | 9\.0\.1\~6\.amzn2023\.0\.3 | 9\.4\.0\~2\.amzn...
892 | python3\pillow\tk | aarch64 | python\pillow | al2023 | 9\.0\.1\~6\.amzn2023\.0\.3 | 9\.4\.0\~2\.amzn...
893 | python3\pillow\tk | x86\_64 | python\pillow | al2023 | 9\.0\.1\~6\.amzn2023\.0\.3 | 9\.4\.0\~2\.amzn202...
```

amazonlinux/amazon-linux-2023 · Release-Notes-Amazon-Linux-2023.0.20230614.md • Markdown · ⌂ main

```
1961 | `python-pexpect` | `4.8.0-7.amzn2023.0.2` |
1962 | `python-pillow` | `9.4.0-2.amzn2023.0.1` |
1963 | `python-pip` | `21.3.1-2.amzn2023.0.5` |
4380 | `python-oauthlib` | `2.0.1-8.amzn2.0.1` | `3.0.2-9.amzn2023.0.3` |
4381 | `python-pillow` | `2.0.0-23.gitd1c6db8.amzn2.0.4` | `9.4.0-2.amzn2023.0.1` |
4382 | `python-pip` | `20.2.2-1.amzn2.0.3` | `21.3.1-2.amzn2023.0.5` |
```

amazonlinux/amazon-linux-2023 · Release-Notes-Amazon-Linux-2023.0.20230607.md • Markdown · ⌂ main

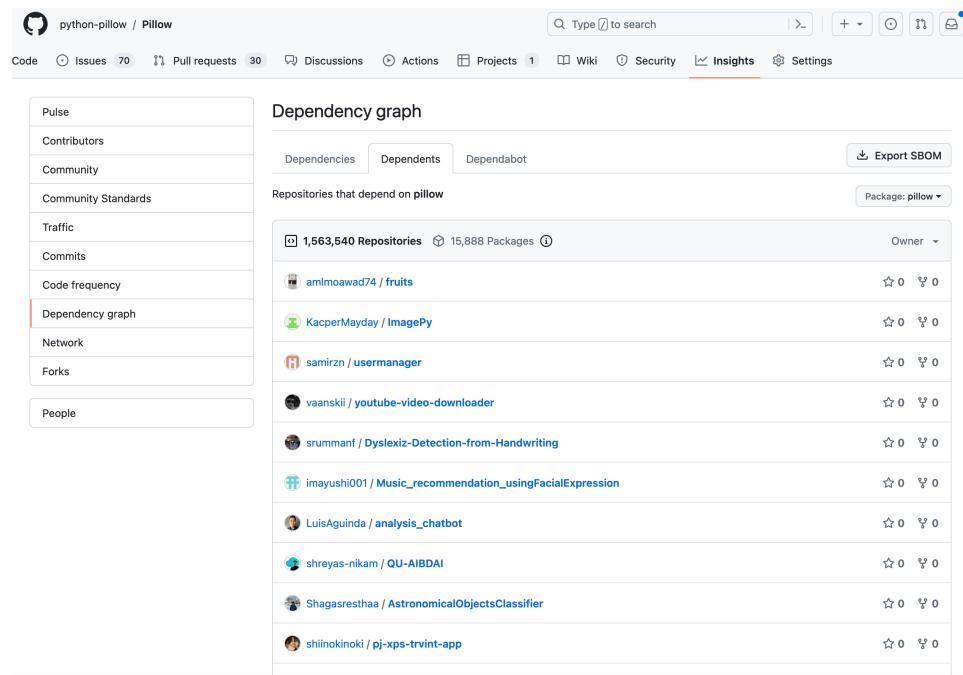
```
1980 | `python-pexpect` | `4.8.0-7.amzn2023.0.2` |
1981 | `python-pillow` | `9.4.0-2.amzn2023.0.1` |
1982 | `python-pip` | `21.3.1-2.amzn2023.0.5` |
4393 | `python-oauthlib` | `2.0.1-8.amzn2.0.1` | `3.0.2-9.amzn2023.0.3` |
4394 | `python-pillow` | `2.0.0-23.gitd1c6db8.amzn2.0.1` | `9.4.0-2.amzn2023.0.1` |
4395 | `python-pip` | `20.2.2-1.amzn2.0.3` | `21.3.1-2.amzn2023.0.5` |
```

amazonlinux/amazon-linux-2023 · Release-Notes-Amazon-Linux-2023.0.2023.0322.0.md • Markdown · ⌂ main

```
120 | `polkit-0.117-11.amzn2023.src` |
121 | `python-pillow-9.4.0-2.amzn2023.0.1.src` |
122 | `setools-4.4.1-1.amzn2023.src` |
2059 | `python-pexpect` | `4.8.0-7.amzn2023.0.2` |
```

DEPENDENTS

1.5M repositories/15K packages



The screenshot shows the GitHub Insights page for the `python-pillow / Pillow` repository. The main focus is the "Dependency graph" section, which is currently set to show "Dependents". A large callout highlights the number "1,563,540 Repositories" and "15,888 Packages". Below this, a list of repositories that depend on `pillow` is displayed, each with a small profile icon, the repository name, and a star rating of "0".

Repository	Owner	Stars	Forks
<code>amimoawad74 / fruits</code>	 amimoawad74	0	0
<code>KacperMayday / ImagePy</code>	 KacperMayday	0	0
<code>samirzn / usermanager</code>	 samirzn	0	0
<code>vaanskii / youtube-video-downloader</code>	 vaanskii	0	0
<code>srummanf / Dyslexiz-Detection-from-Handwriting</code>	 srummanf	0	0
<code>imayushi001 / Music_recommendation_usingFacialExpression</code>	 imayushi001	0	0
<code>LuisAguinda / analysis_chatbot</code>	 LuisAguinda	0	0
<code>shreyas-nikam / QU-AIBDAI</code>	 shreyas-nikam	0	0
<code>Shagasresthaa / AstronomicalObjectsClassifier</code>	 Shagasresthaa	0	0
<code>shiinokinoki / pj-xps-trvint-app</code>	 shiinokinoki	0	0

???

???



MIND BLOWN



(<https://giphy.com/gifs/producthunt-mind-blown-blow-your-26ufdipQqU2lhNA4g>)

LIES, DAMN LIES, STATISTICS

```
alexclark@alexclarks-Air:~/Developer/python-pillow/pillow-aswf^main ❤
% pypistats overall imageio
```

category	percent	downloads
with_mirrors	100.00%	122,097,707
without_mirrors	99.33%	121,280,589
Total		122,097,707

Date range: 2023-09-20 – 2024-03-18

```
alexclark@alexclarks-Air:~/Developer/python-pillow/pillow-aswf^main ❤
% pypistats overall alembic
```

category	percent	downloads
with_mirrors	100.00%	204,514,363
without_mirrors	98.57%	201,593,751
Total		204,514,363

Date range: 2023-09-20 – 2024-03-18

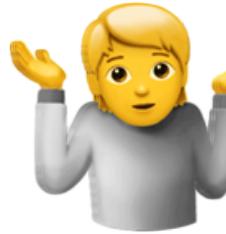
```
alexclark@alexclarks-Air:~/Developer/python-pillow/pillow-aswf^main ❤
% pypistats overall pillow
```

category	percent	downloads
with_mirrors	100.00%	476,247,331
without_mirrors	97.64%	464,998,778
Total		476,247,331

Date range: 2023-09-20 – 2024-03-18

**ANYTHING TO DO
WITH ASWF?**

ANYTHING TO DO WITH ASWF?



"I DON'T KNOW"

"I DON'T KNOW"

—JEFF SPICOLI

"I DON'T KNOW"

—JEFF SPICOLI

—DUSTY SLAY

"I DON'T KNOW"

—JEFF SPICOLI

—DUSTY SLAY

"I don't even work here."

INFRASTRUCTURE

TIMELINE



Jean-Christophe Morin 3:34 PM

ASWF provides the infrastructure required for projects

Infrastructure here is large. It includes real infra (GH hosting, GH Actions runners (even bigger runners)), a base governance model, they also host trademarks and they handle all the legal work and paperwork. They provide a meeting management tool (and a lot of other cool tool), CLA management and lots of other things. (edited)

TIMELINE

 **Jean-Christophe Morin** 3:34 PM

ASWF provides the **CLA** infrastructure required for projects **management!**

Infrastructure here is large. It includes real infra (GH hosting, GH Actions runners (even bigger runners)), a base governance model, they also host trademarks and they handle all the legal work and paperwork. They provide a meeting management tool (and a lot of other cool tool), CLA management and lots of other things. (edited)

TIMELINE

hugovk commented 5 hours ago

Please could you explain what it is, and what exactly the proposal is?

To be under a Linux Foundation umbrella which, of course, does not necessarily mean I want Pillow to be under a Linux Foundation umbrella just that I'd like to talk to ASWF about it.

What exactly does being under a Linux Foundation umbrella mean?

aclark4life commented 2 minutes ago

What exactly does being under a Linux Foundation umbrella mean?

<https://www.aswf.io/services-for-projects/>

TIMELINE

Larry Gritz 7 days ago
You know that the ASWF "houses" the projects, but does not supply labor or funding?
All the projects are still dependent on people showing up to do the work.

Jeffrey A. Clark 7 days ago
I do! Thanks. 20 year open source veteran here. I added an EDIT to the proposal to clarify.

Jeffrey A. Clark 7 days ago
(actually maybe 30 year, sigh.)

Larry Gritz 7 days ago
What are some of the interesting things that Pillow does that are lacking in the Python bindings for OpenImageIO?

Jeffrey A. Clark 7 days ago
I don't know that there are any... and as you may recall, I participated in the OIIO Dev Days to work on Python wheels. So, the proposal is not making any assumptions about the usefulness in VFX pipelines other than my understanding that it is in VFX pipelines (I would like to work on VFX pipelines, but that's a separate conversation.)

Jeffrey A. Clark 7 days ago
PIL was written in 1991 and was the first image processing library for Python, for whatever that is worth.

Larry Gritz 7 days ago
Of course, I do remember you.

TIMELINE

Larry Gritz 7 days ago
Is it used in VFX? I don't even see OpenEXR listed among the file formats it supports on the docs page. Or am I misreading?

Jeffrey A. Clark 7 days ago
(sorry, Python was 1991 and PIL was 1995). Um, I don't know to what extent it is used in VFX pipelines other than <https://github.com/search?q=org%3AAcademySoftwareFoundation%20pillow&type=code> If it's not, easy rejection!

Jeffrey A. Clark 7 days ago
"for some value of use" ... I assume.

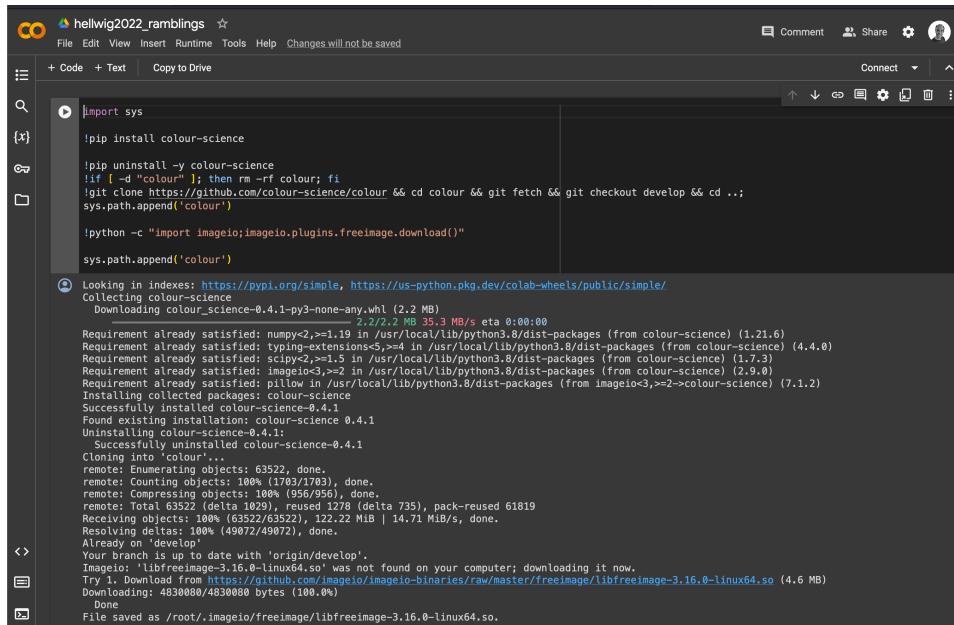
Jeffrey A. Clark 7 days ago
(and Pillow was born in 2010 for anyone following along)

Jeffrey A. Clark 7 days ago
ASWF already helping! I hadn't notice our 99% OpenSSF status <https://github.com/python-pillow/Pillow/issues/7873>

Jeffrey A. Clark 22 hours ago
@Larry Gritz Also FWIW going down the rabbit hole looks like [imageio](#) uses [Pillow](#) to do whatever it is it does, and I came across [imageio](#) in reviewing <https://wiki.aswf.io/display/OCIO/2024-03-18> which led me to https://colab.research.google.com/drive/1OerRYxnKOYGhiZEZda1QS93JWBfN_WI0

colab.research.google.com
Google Colaboratory (5 kB) ▾

SPECIFIC ALIGNMENTS



```
import sys
!pip install colour-science
!pip uninstall -y colour-science
if [ -d "colour" ]; then rm -rf colour; fi
git clone https://github.com/colour-science/colour && cd colour && git fetch && git checkout develop && cd ..
sys.path.append("colour")

!python -c "import imageio;imageio.plugins.freeimage.download()"
sys.path.append('colour')
```

Looking in indexes: <https://pypi.org/simple>, <https://us-python.pkg.dev/colab-wheels/public/simple/>

Collecting colour-science

 Downloading colour_science-0.4.1-py3-none-any.whl (2.2 MB)

Requirement already satisfied: numpy<2,>=1.19 in /usr/local/lib/python3.8/dist-packages (from colour-science) (1.21.6)

Requirement already satisfied: typing-extensions<3,>=4 in /usr/local/lib/python3.8/dist-packages (from colour-science) (4.4.8)

Requirement already satisfied: packaging<23,> in /usr/local/lib/python3.8/dist-packages (from colour-science) (23.1.3)

Requirement already satisfied: importlib>=2 in /usr/local/lib/python3.8/dist-packages (from colour-science) (2.9.0)

Requirement already satisfied: pillow in /usr/local/lib/python3.8/dist-packages (from colour-science) (7.1.2)

Installing collected packages: colour-science

Successfully installed colour-science-0.4.1

Found existing installation: colour-science 0.4.1

Uninstalling colour-science-0.4.1:

 Successfully uninstalled colour-science-0.4.1

Cloning into colour-science...
remote: Compressing objects: 100% (1783/1783), done.
remote: Counting objects: 100% (1783/1783), done.
remote: Total 63522 (delta 1029), reused 1278 (delta 735), pack-reused 61819
Receiving objects: 100% (63522/63522), 122.22 MiB | 14.71 MiB/s, done.
Resolving deltas: 100% (49072/49072), done.

Already on 'develop'.

Your branch is ahead of 'origin/develop' by 1 commit.

imageio: 'libfreeimage-3.16.0-linux64.so' was not found on your computer; downloading it now.

Try 1. Download from <https://github.com/imageio/imageio-binaries/raw/master/freeimage/libfreeimage-3.16.0-linux64.so> (4.6 MB)

 Downloading: 4830080/4830080 bytes (100.0%)

 Done

File saved as /root/.imageio/freeimage/libfreeimage-3.16.0-linux64.so.

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imageio is a pypi library with a maintainer paid by Tidelift

The maintainers of imageio get paid by Tidelift to ensure imageio meets standardized secure software development practices.

[Access data like this](#)

[Read a case story](#)

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First Name*

Last Name*

Email*

Phone number*

Job Title*

Company name*

Question or comment

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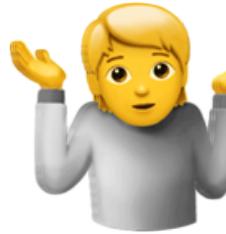
[Privacy](#) · [Terms](#)



[Submit](#)

**ANYTHING TO DO
WITH ASWF?**

ANYTHING TO DO WITH ASWF?



HOW DID I MAKE THE CONNECTION?

HOW DID I MAKE THE CONNECTION?

Trask.

HOW DID I MAKE THE CONNECTION?

Trask.

Radio.

HOW DID I MAKE THE CONNECTION?

Trask.

Radio.

Trask.

HOW DID I MAKE THE CONNECTION?

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Radio.

HOW DID I MAKE THE CONNECTION?

Trask.

Radio.

Trask.

Radio.

—Tess McGill

HOW DID I MAKE THE CONNECTION?

Trask.

Radio.

Trask.

Radio.

—Tess McGill, Working Girl

SPECIFIC ALIGNMENTS

Scripting
Scripting
Python
Python Image Library

Python Image Library (PIL)

PIL (and its fork PILLOW) is the one of the historic python image library that is used to batch process images using simple commands.

Its full documentation can be found here : <https://effbot.org/imagingbook/> or <https://pillow.readthedocs.io/en/stable/>

Installing and using PIL

Install via PIP

PIL can be installed via PIP.

```
python3 -m pip install Pillow
```

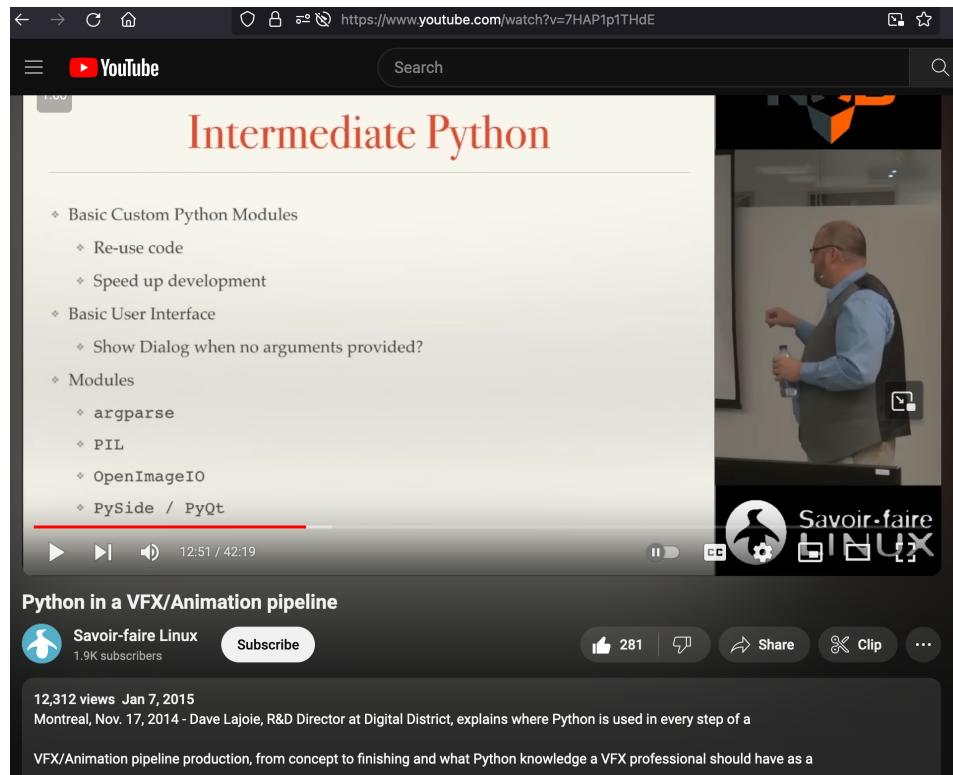
For all platforms see : <https://pillow.readthedocs.io/en/stable/installation.html>

Using in Python Scripts

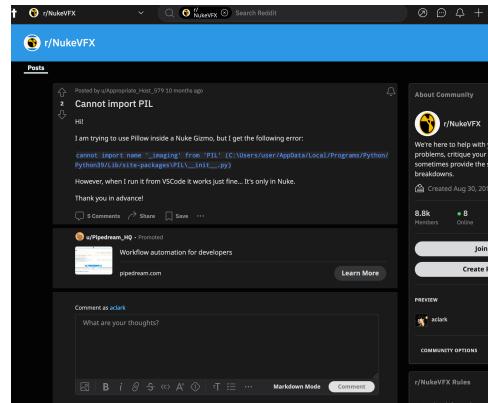
Then PIP Modules and classes can be imported in your python scripts

```
from PIL import Image, ImageFilter # imports the library
```

SPECIFIC ALIGNMENTS



SPECIFIC ALIGNMENTS



NukeVFX

cannot import name '`_imaging`' from
'`PIL`'

SPECIFIC ALIGNMENTS

The screenshot shows a dark-themed web browser window displaying the [Pillow documentation page](https://pillow.readthedocs.io/en/latest/deprecations.html#import-imaging) for deprecations. The page lists several removed functions and their recommended replacements.

Removed	Use instead
<code>ImageOps.box_blur</code>	<code>ImageFilter.BoxBlur</code>
<code>ImageOps.gaussian_blur</code>	<code>ImageFilter.GaussianBlur</code>
<code>ImageOps.gblur</code>	<code>ImageFilter.GaussianBlur</code>
<code>ImageOps.usm</code>	<code>ImageFilter.UnsharpMask</code>
<code>ImageOps.unsharp_mask</code>	<code>ImageFilter.UnsharpMask</code>

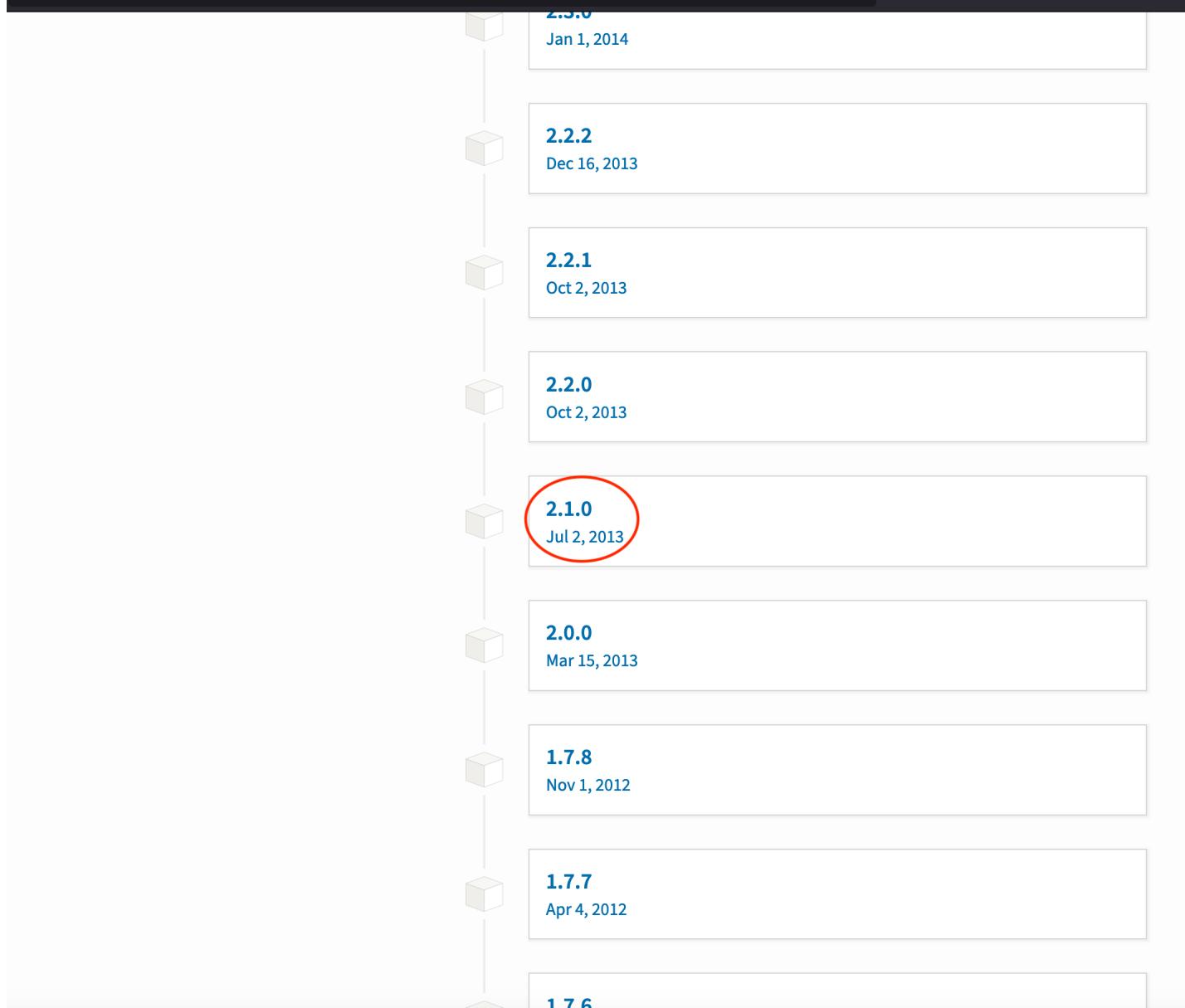
PIL.OleFileIO
Deprecated since version 4.0.0.
Removed in version 6.0.0.
`PIL.OleFileIO` was removed as a vendored file in Pillow 4.0.0 (2017-01) in favour of the upstream `olefile` Python package, and replaced with an `ImportError` in 5.0.0 (2018-01). The deprecated file has now been removed from Pillow. If needed, install from PyPI (eg. `python3 -m pip install olefile`).

import _imaging
Removed in version 2.1.0.
Pillow >= 2.1.0 no longer supports `import _imaging`. Please use `from PIL.Image import core as _imaging` instead.

Pillow and PIL
Removed in version 1.0.0.
Pillow and PIL cannot co-exist in the same environment. Before installing Pillow, please uninstall PIL.

import Image
Removed in version 1.0.0.
Pillow >= 1.0 no longer supports `import Image`. Please use `from PIL import Image` instead.

SPECIFIC ALIGNMENTS





SPECIFIC ALIGNMENTS

```
# devdays
# general
# materialx
# openexr
# openimageio
# opentimelineio
# pipeline
# random
# rez
# wg-ci
# wg-usd
# wg-usd-assets
```

Friday, March 15th ▾

 **Michael Davey** 5:56 PM
Following on from the OTIO TSC meeting, if anyone would like to try out my colleague's init you'll find it at ./pxr/usd/bin/usdotio in this branch of this repo: <https://github.com/ggarra13>
Feedback very welcome.

 **Rajendra Alluri** 6:49 PM
joined #opentimelineio.

Today ▾

 **tintwotin** 3:59 AM
Is there an OTIO python wheel for Python 3.11 somewhere? (Blender has moved to 3.11)

INFRASTRUCTURE

- Give and take?
- Keep up with Python releases
- Publish wheels for all ASWF projects

**FINALLY, SOME REAL
STUFF**

FINALLY, SOME REAL STUFF

- Make Pillow and VFX better together!

FINALLY, SOME REAL STUFF

- Make Pillow and VFX better together!
- <https://github.com/python-pillow/Pillow/issues/1888>

A screenshot of a web browser displaying a GitHub issue page. The URL in the address bar is <https://github.com/python-pillow/Pillow/issues/1888>. The page title is "python-pillow / Pillow". The navigation bar includes links for Code, Issues (70), Pull requests (30), Discussions, Actions, Projects (1), Wiki, Security, Insights, and Settings. A search bar at the top right contains the placeholder "Type to search". Below the navigation bar, there are several icons for repository management.

Tracking Issue for high bit depth multichannel images #1888

[Edit](#)[New issue](#)

[Open](#) wiredfool opened this issue on May 5, 2016 · 26 comments



wiredfool commented on May 5, 2016 · edited

Member

Pillow (and PIL) is currently able to open 8 bit per channel multi-channel images (such as RGB) but is able to open higher bit depth images (e.g. I16, I32, or Float32 images) if they are single channel (e.g., grayscale).

Previous References

This has been requested many times: [#1828](#), [#1885](#), [#1839](#), [#1602](#), and farther back.

Requirements

- We should be able to support common GIS formats as well as high bit depth RGB(A) images.
- At least 4 channels, but potentially more (see [Add tests for opening 2-5 layer uint16 greyscale TIFFs #1839](#))
- Different pixel formats, including I16, I32, and Float.
- There should be definitions for the array interface to exchange images with numpy/scipy
- There should be enough support to read and write TIFFs and raw image data.
- Support for resize, crop, and convert operations at the very least.

Assignees

wiredfool

Labels

[Enhancement](#) [NumPy](#)

Projects

Pillow

In progress

Milestone

No milestone

Development



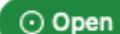
Tracking Issue for high bit depth multichannel images #1888

wiredfool opened this issue on May 5, 2016 · 26 comments



 mseitzer mentioned this issue on Oct 13, 2021

tifffile for .tiff support mseitzer/pytorch-fid#62



 ashnair1 mentioned this issue on Nov 23, 2021

Adding OSCD dataset microsoft/torchgeo#233



KeygenLLC commented on Dec 15, 2021 · edited

...

I'm also surprised that float32 RGB or RGBA files are not supported. These are standard for VFX and post production when using a linear workflow, have been for over a decade, and should be supported, whether it's with TIFF files or OpenEXR. They need to be supported and not clamp values to 0-1 unless we choose for them to be. uint8 and even 16 does not suffice as they have hard limits and less precision. Currently Pillow sees their shapes as (1,1,3) regardless of dimensions.

I would also encourage you to make it possible to **easily save layered TIFF and EXR files** that can be read by Adobe apps, like Photoshop and After Effects, and other industry standard tools used for compositing. This is where these file formats excel and why EXR was created. There is no library available that makes this easy as far as I've been able to find and the libraries that do it require you to manually setup the tags, which is not trivial unless you have knowledge of how this low-level stuff works. Seems a bit much to have to work out byte code to save discrete file layers in 2021 that Photoshop can read.

I've turned to imageio and tifffile, and other libraries made for geo data, and while they support float RGB without clamping, they don't spit out layered files, only multipage, which Adobe and other host apps do not support. I'm still

Open

Tracking Issue for high bit depth multichannel images #1888

wiredfool opened this issue on May 5, 2016 · 26 comments



gverm mentioned this issue on Apr 3, 2023

Saving TIFF as JPEG causes malformed image #7062

Closed



mariosasko mentioned this issue on May 5, 2023

TIFF/TIF support [huggingface/datasets#5791](#)

Closed



herronelou commented on May 15, 2023 · edited

...

Just here to echo [@KeygenLLC](#)'s comment above, RGB/RGBA images in 16 or 32-bit float is nearly mandatory for [VFX](#), and we've been removing any usage of PIL we can find in tools we bring in, in favor of dealing directly with np.arrays and cv2 functions for manipulating the data as images. It's not as convenient as what PIL offers but 8bit is a deal breaker.

(We're also working with the EXR file format)



5

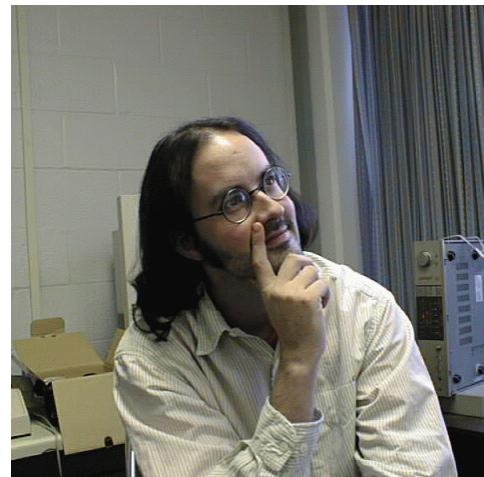


fdintino mentioned this issue on Sep 11, 2023

Expose depth parameter to the public API. [fdintino/pillow-avif-plugin#26](#)

Open

THANK YOU!



★ Jeffrey A. Clark (Alex) Python Pillow Creator

duck | ACLARK.NET President | [DC Python](http://DCPython.org) Executive Director

✉ aclark@aclark.net | 🌐 www.aclark.net | 🔗 [LinkedIn](#)

Let's code the future together! 🚀

aclark@aclark.net | <https://aclark.net>