ASWF /* ACADEMY SOFTWARE FOUNDATION

2026 Annual Review for OpenImageIO

OpenImageIO - 2026 Annual Review

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Mission:

OpenImageIO is a toolset for reading, writing, and manipulating image files of any image file format relevant to VFX / animation via a format-agnostic API with a feature set, scalability, and robustness needed for feature film production.

TSC Chairperson:

Daniel Greenstein - greenstein@imageworks.com

TSC Members and Affiliations:

Larry Gritz (Architect), Sony Pictures Imageworks
Anton Dukhovnikov, Wētā
Jesse Yurkovich, Blender
Luke Emrose, Animal Logic
Thiago Ize, Autodesk
Martin Davies, Laika

Contributed by:

Sony Pictures Imageworks

Key Links:

Github:

https://github.com/AcademySoftwareFoundation/OpenImageIO

Website:

https://openimageio.readthedocs.io/

Logo:

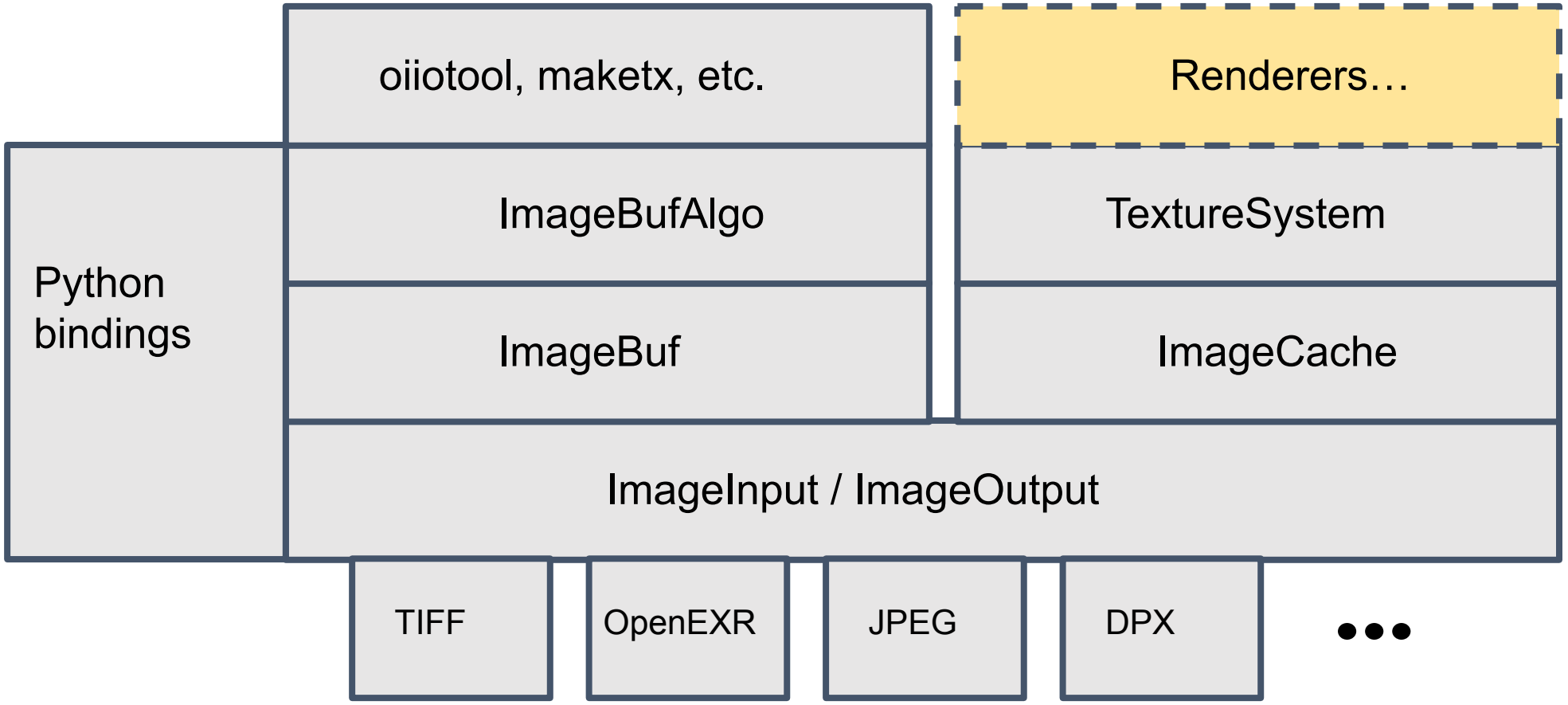
Mailing list:

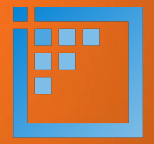
https://lists.aswf.io/g/oiio-dev

OpenSSF Best Practice Badge URL:

https://www.bestpractices.dev/en/projects/2694/passing

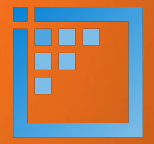
OpenImageIO - System Components





OpenImageIO - Ecosystem Role

- Founded by Larry Gritz in 2008, joined ASWF in 2023
- TSC: Sony Imageworks, Wētā, Blender, Autodesk, Laika
- Looking for additional members from organizations that use the project heavily.
- Dependency of (ASWF+): Open Shading Language, OpenColorIO, MaterialX, OpenUSD, OpenRV, OpenMoonRay…
- Depends on (ASWF): OpenEXR, OpenColorIO, OpenVDB
- Embedded in: Maya, Houdini, Katana, Blender, Arnold, 3Delight, Gaffer, …
- Used in approximately all studio pipelines???
- Graduated from "incubating" to "accepted" in 2025.



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2025-2026 Year Highlights

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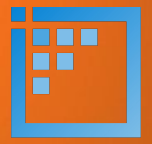
- **450 git commits** by **50 unique contributors** *(up from **41** last year)*
- OpenImageIO 3.1 release (Oct 2025)
- Release branch patches on the 1st of every month
- Dev Days:
  - Sep 2025 - 6 merged PRs
  - May 2026 - 8 merged PRs
- **OpenSSF Security:** Maintained **100% Passing**, **95% Silver**, and **78% Gold** compliance



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Contributions since last year

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- Aamir Raza (*)
- Alejandro Conty
- Aleksandr Motsjonov
- Alex Fuller (*)
- Anthony Roberts (*)
- Anton Dukhovnikov
- Asish Kumar
- Brad Smith (*)
- Brecht Van Lommel
- Brian R Hanke (*)
- Carine Touraille (*) (*)
- Connie Chang (*) (*)
- Danielle Imogu
- Danny Greenstein (*)
- Dongju Lee (*)
- Hannah Gulka (*) (*)
- Hunter (*) (*)
- Irene Chang (rose413) (*) (*)
- Jackson Sun (*)
- Jesse Yurkovich
- Jinnie Kim (*)
- Jonathan Brown
- Larry Gritz
- Li Ji
- Lumina Wang (*) (*)
- Luna Kim (*)
- Marta Feriani (*) (*)
- Matt Van Horn (*)
- Maxwell Iverson (*)
- Mikael Sundell
- Mixie (*)
- Nathan Rusch
- Nick D'Ademo (*)
- Oktay Comu
- omcaif (*) (*)
- Pascal Lecocq
- Pavan Madduri (*)
- Peter Kovář
- Qi-fly (*)
- Rui Chen (*)
- Scott Milner (*)
- Shane Smith (*) (*)
- Thomas Klausner (*)
- Todica Ionut
- Takuya Hashimoto
- Valery Angelique (*)
- Vlad Erium
- Takuya Hashimoto (toge) (*)
- Vanessa Valderrama (*)
- Zach Lewis

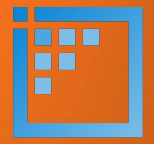
* dev days contributor

* first time contributor

Vulnerapocalypse of 2026

- Since last VTH, 31 externally reported vulnerabilities
  - 19 just since the start of July
  - 23 issues CVEs, 1 pending
  - Plus everything we discovered via fuzzing + coding tool audits
- Added our own fuzzer to help catch before reports
- **Since mid-June: 81 security / input hardening patches**
- Average > 10/week, including SIGGRAPH and LG's vacation

WHY? LLM coding assistants (but also part of the solution)



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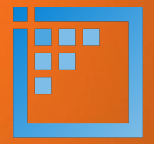
Roadmap: 3.2 release September

- New dependency minimums:
  - fmt 8 -> 9, libRaw 0.20 -> 0.21, cmake 3.18.2 -> 3.23.0, libjpeg 8 -> 9, libtiff 4.0 -> 4.1
  - Deprecate old Intel icc compiler
- Safety:
  - added a comprehensive fuzzer that runs nightly
  - settable memory and resolution limits
  - dozens and dozens of hardening fixes
- Python bindings: switch to nanobind (Aleksandr Motsjonov)



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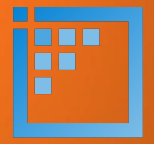
Roadmap: 3.2 release September

- FLIP image comparison (ImageBufAlgo, oiiotool `-flip_diff`)
- oiiotool can get/set thumbnails for several formats

  (Jinnie Kim, Anton Dukhovnikov)
- Color management: (Zach Lewis, Brecht Van Lommel, Jesse Yurkovich)
  - Follow Color Interop Forum guidelines, OpenEXR “colorInteropID”
  - CICP and ICC support added to JPEG-XL
  - More coming!
- Experimental: hwy-enabled SIMD IBA speedups (Vlad Erium)
- In progress/maybe: KTX2 texture support (Walid Chtioui)



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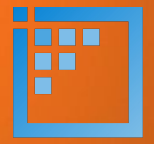
AI / ML Code Generation

LLM coding assistants are permitted, with rules:

- **Human must always be in the loop**, and is the responsible party
- **No “vibe coding”** – all code must be fully understood and reviewed
- **Interact with the project and community yourself**, not by agent
- **Disclose tools use**: `Assisted-by: TOOL / MODEL`
- **Don't waste maintainer's time with low quality PRs**
- **Don’t stomp on Dev Days or Good First Issues**
- **Exempt**: spell/grammar check, LLMs to teach/explain, audit for bugs, language translations, self-review prior to PR
- **Creative contributions are out of scope** (mostly don’t apply to OIIO)

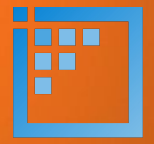
- Full policy in repo: docs/dev/AI_Policy.md



AI / ML Code Generation – Status

- A substantial portion of PRs has some coding tool assistance
- PR quality is as high as ever – no “slop” detected
- No noted increase in PRs (other than me responding to vuln reports)
- Vulnerability reports are ~50x the prior background rate, but so far have all been legit
  - It has been exhausting, but the code base is more robust for it

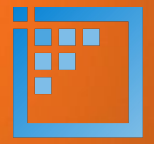
- This is in contrast to many other projects (outside of ASWF) who are completely overwhelmed – we are lucky



Areas the project could use help on

HELP WANTED!

- S-size:
  - support, issues, dependency wrangling, CI, security, releasing, Windows
- M-size:
  - **need more TSC members and involvement**
  - Color management (in progress – Zach Lewis leading it)
  - Metadata strategy cleanup (watch this space)
  - Overhauls needed for DSLR raw, HEIC, video/ffmpeg
- L-size:
  - Cuda/OptiX TextureSystem (Alex Conty on this now)
  - Rust bindings – abandoned for now



OpenImageIO

Feedback on working with ASWF

- WG-CI and its work are indispensable
- Thanks for the infrastructure: meetings, calendar, TSCs, etc.
- Great collaboration/synergy with other projects: OpenColorIO, CIF, OpenEXR, OSL, MaterialX, WG-CI, and others
- Builds awareness around the essential work keeping core industry software reliable and operational.

TAC Open Discussion