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Annual Review for

rawtoaces

2025

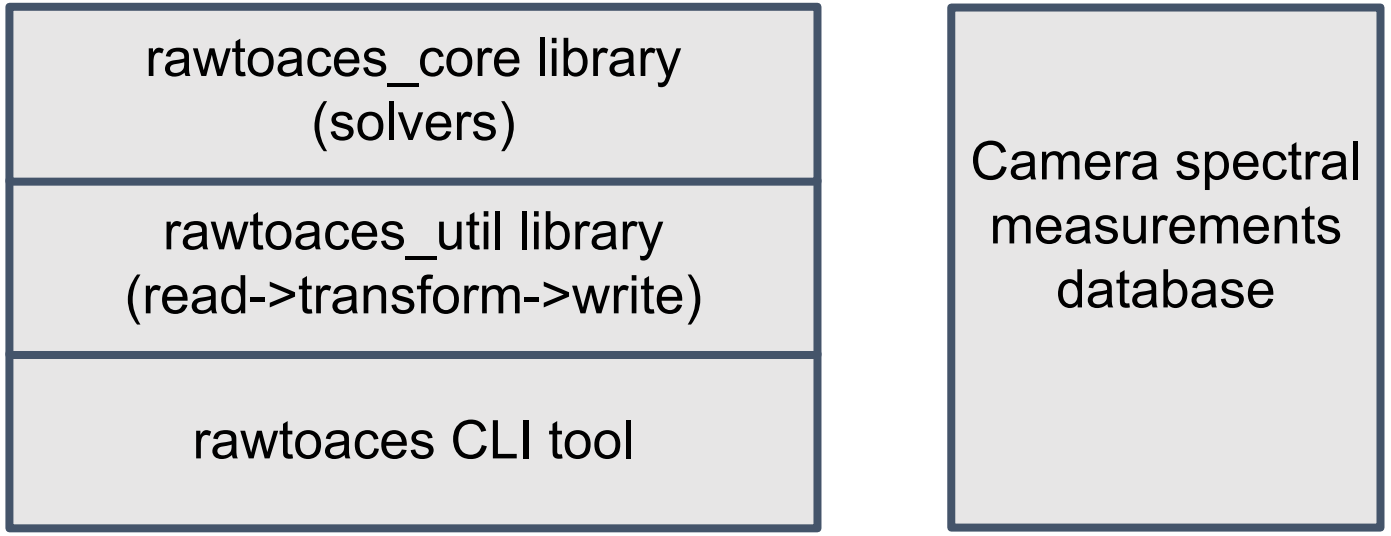
Mission

The rawtoaces project seeks to provide a reliable and extensible software framework for the conversion of digital camera RAW files to a high dynamic range scene referred format, along with establishing a database of camera and related data to enable this framework.

Camera colour space → ACES AP0 (SMPTE 2065-1)

Raw file format → ACES Container (SMPTE 2065-4)

Major rawtoaces components



2024-2025 highlights

- TSC chair role transferred from Alex Forsythe (AMPAS) to Anton Dukhovnikov (Wētā FX)
- License change from AMPAS to Apache-2.0
- Separate repository for the database (rawtoaces-data)
- rawtoaces 1.1.0 release - first release since 1.0.0 in 2017!
- rawtoaces 2.0.0 release - currently in beta

2024-2025 commits

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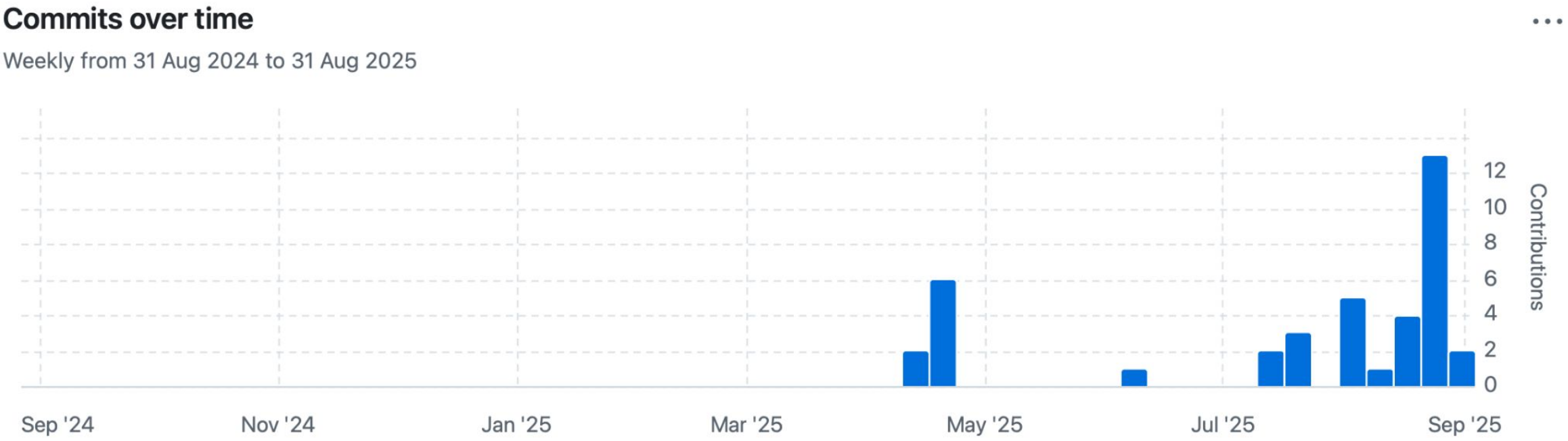
#ASWF



- 39 commits by 4 people
- 2 active contributors

Roadmap: 2.0 release this fall

- removes dependency on Libraw, AcesContainer, boost
- public interface cleaned up
- heavily based on OpenImageIO
  - reading raw images
  - writing .exr images
  - all image processing via OpenImageIO::ImageBufAlgo
  - each step mimics an OpenImageIO::ImageBufAlgo

Roadmap: Short-term goals

- Transform cache (wip)
- Lens corrections (wip)
  - vignetting
  - distortion
  - chromatic aberration
- rawtoaces-specific CI images (wip)
- user and developer documentation
- better test suite

Roadmap: Long-term goals

- Python bindings
- Exposure stacking
- Physically accurate scaling
- GUI application
- Expand the database and document the camera profiling process
- OpenSSF Best Practices badge
- OpenFX plugin?

Help wanted!

We are looking for:

- contributors
- users
- TSC members

TAC Open Discussion