

Imaging and Color

Color Science

OpenColorIO (ASWF Adopted), rawtoaces (ASWF Incubation), ACES, COLOUR

Image Formats, I/O, and Processing Libraries

OpenEXR (ASWF Adopted), OpenCV, OIIO, Ptex, PySceneDetect, OpenMVG, pfsTools, sequencer

Display and Review

DPEL (ASWF Incubation), mrViewer, tRender

Interactive Compositing and Painting

AuthorityFX, Aton, CinePaint, GIMP, Natron, PhotoFlow, Backdrop

QR code, l.aswf.io, ASWF Landscape, ASWF Academy Software Foundation

This landscape is intended as a map to explore open source projects within the animation and visual effects industry, and also shows the member companies of the Academy Software Foundation.

Assets and Workflow

Scenes and Geometry

ALEMBIC, AliceVision, COLLADA, DNEG, Autodesk Maya, Maya Reticle, MESHROOM, OpenSubdiv, OpenFlipper, OpenMesh, USD

Timelines and Animation

OpenTimelineIO (ASWF Incubation), kdenlive, Olive, openPYPE, TACTIC

Pipelines and Frameworks

OPENASSETIO (ASWF Sandbox), blender, CGWIRE, PySling, QIPyConvert, Sola Migrations

Software Foundation and System Administration

rez (ASWF Incubation), AuthorityFX, ForestFlow, DREAMWORKS, UNREAL ENGINE, PyMEL, Sola Migrations

ASWF Member Company

Premier: Academy of Motion Picture Arts and Sciences, Adobe, AMD, AWS, Autodesk, DNEG, DreamWorks, Unreal Engine, Google, Intel, Microsoft, Netflix, NVIDIA, ImageWorks, Walt Disney Studios

General: Unity, Weta Digital, HP, Maxon, Red Hat, RODEO, SideFX, Foundry

Associate: Blender, etcc, movie labs, SMPTE, Khronos, VES

Rendering and Queuing

Rendering, Lighting, and Lookdev

MATERIALX (ASWF Incubation), open shading language (ASWF Incubation), Cryptomatte, Intel Embree, Moonray, NVIDIA MDL, RenderFusion

Queueing and Render Management

OpenCue (ASWF Adopted), CGRU

Math and Simulation

File Formats and Interchange

OpenVDB (ASWF Adopted), OpenFX (ASWF Incubation), Field3D, Partio, DNEG mathPy SOP

Simulation Math Foundations

ANN, EGAL, PiMath, Se-Expr()