



\\ ACADEMY COLOR ENCODING SYSTEM \\

ACES 1.0 Developer Release

Detailed Change List from ACES Pre-release Version 0.7.1

1. Versioning system

Policies and procedures for ACES system component versioning, which enables sensible vendor management of ACES releases.

2. Dim Surround Output Device Transforms (ODTs)

ODTs to support viewing ACES content in environments with relatively high ambient lighting levels, e.g., on-set preview and Rec. 709 viewing of digital cinema content in visual effects production or editorial working environments.

3. HDR Output Device Transforms

1000, 2000 and 4000 nit ODTs for high dynamic range display devices.

4. Common LUT file format

Updated Academy-ASC common LUT format specification for improved production support of ACES color transforms.

5. Improved ACESproxy specification

Revised ACESproxy specification for improved support for on-set look management applications, with recommendations for ASC CDL application.

6. Working spaces for improved color grading and compositing performance

New ACEScg and ACEScc working space definitions with recommendations for ASC CDL application.

7. Look Modification Transform format and container

Specification of Look Modification Transform and use cases.

8. ACES Output Transform “look” improvements

Updates to the ACES Reference Rendering Transforms and Output Device Transforms that improve visual performance characteristics.

9. ACES Output Transform “feel” improvements

Updates to the ACES Reference Rendering Transforms, Output Device Transforms and working space recommendations to improve color corrector control behavior.

10. ACES clip-level metadata file

An XML “sidecar” file that contains essential ACES viewing pipeline configuration data and “clip description metadata” for project persistence and portability.

11. OpenColorIO configuration

Implementation of the ACES transforms as an OpenColorIO (OCIO) configuration to enable OCIO-compatible tools to use ACES.

12. Recommendations for ACES User Experience

ACES terminology and concept presentation guidelines for product developers implementing ACES in their products.