

Color on the web CG teleconference

2021-04-06 @ 21:00 UTC

Attendees

- Chris Blume
- Chris Cameron
- Chris Lilley (CG co-chair)
- Chris Needham
- Imane Filali
- Ken Russell
- Lars Borg
- Leonard Rosenthol
- Masaru Takechi
- Pierre-Anthony Lemieux (meeting chair, CG co-chair)
- Rafael Cintron
- Reiner Fink
- Simon Thompson
- Timo Kunkel
- Chris Seeger

Action items

Action item: Chair to file issue on <https://github.com/WICG/canvas-color-space> indicating that the Color CG offers to study HDR in Canvas, leaving the WICG proposal focused on WCG, which is more mature.

Done at <https://github.com/WICG/canvas-color-space/pull/60>

HDR support in PNG

4-week call-for-consensus for requirements:

<https://github.com/w3c/ColorWeb-CG/blob/master/hdr-in-png-requirements.md>

Action Item: Chris Lilley to post PNG draft charter to Color CG for review (week of April 6)

Action Item: Chair to start CfC on HDR-in-PNG requirements

HDR in Canvas/WebGPU/WebGL

Reviewed slides at:

https://docs.google.com/presentation/d/1hqd5dBgkIFn8eFBsd9_NVmH3bYzjrrtTvbGAPmjx4cl/edit?usp=sharing

https://docs.google.com/presentation/d/1rvCYKq6T4koS0yRd_C91se6v1h2YJF32pPHtPtBo-R8/edit

Data points:

- Web assembly allows custom web application processing, e.g. for authoring applications
- Coarse HDR capability reporting (none, low, high) is not incompatible with privacy requirements
- Blending modalities are somewhat orthogonal to colorspace signalling
- Different implementations will have different fast-paths, e.g. TV might have HLG fast paths whereas PC might have linear RGB fast path.

Open questions

- What happens to metadata associated with image files, e.g. ICC profiles, ST 2086 HDR metadata, etc. once image files are rendered into Canvas?
- How to handle blending efficiently and accurately (linear vs gamma space)?

Potential path forward: Canvas API could initial support a (hopefully small) set of explicit pixel formats/colorspaces. The set would expand/shrink with experience.

Action item: Chair to encourage participation from Android and Apple (Simon Fraser) folks to better understand platform capabilities and roadmap.

Next meeting

Recurring meeting on Monday 21:00-22:30 UTC every two weeks, starting on April 12.

Administrative

Please carefully review CG rules/policies (<https://www.w3.org/community/about/>)

Please add your name to your GitHub user profile (<https://github.com/settings/profile>)

Calendar at:

- https://calendar.google.com/calendar/embed?src=nr9r5ibs0f4jcuebisd2lvie1s%40group.calendar.google.com&ctz=America%2FLos_Angeles
- <https://calendar.google.com/calendar/ical/nr9r5ibs0f4jcuebisd2lvie1s%40group.calendar.google.com/public/basic.ics>