Color on the web CG teleconference

2021-03-31 @ 21:00 UTC

HDR support in PNG

Review draft document and open issues:

https://github.com/w3c/ColorWeb-CG/pull/19

Proposal #1: For the purpose of rendering, the PNG decoder shall use the iCCN chunk if present.

- How do we define "rendering"?
- Image + ICC profile for a specific target cannot be repurposed to a different target
- In a browser, the browser does not know the ultimate display when decoding the image.

Proposal #2: the iCCN chunk shall take precedence over the cICP chunk (that does not mean that the cICP does not contain invalid information). iCCP is used if cICP is not understood.

- This does not work if the cICP chunk is also present and matches the target display but the iCCN chunk does not match the target display

Use cases:

(a) HDR image to be rendered to SDR display (benefit from ICC)
(b) HDR image rendered to HDR display (ICC profile is an issue)
(c) Editing HDR image, which is out-of-scope

Proposal #3: The iCCN chunk shall take precedence over the cICP chunk if the display/graphics plane does not support the codepoint specified in cICP. Provide examples.

Consensus to integrate Proposal #3

Action Item: Leonard to integrate proposal #3 in PR #19

Status of PNG WG

- Initial repo at https://github.com/w3c/PNG-spec
- Suggestion to add animated PNG (in addition to HDR support)
- Next step is to draft a charter

Action Item: Chris Lilley to post PNG draft charter to Color CG for review

HDR in Canvas/WebGPU/WebGL

Reviewed slides at:

https://docs.google.com/presentation/d/1hqd5dBgklFn8eFBsd9_NVmH3bYzjrrtTvbGAPmjx4cI/edit?usp=sharing

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.

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

Next meeting

6 April 2021 at 2100 UTC

Attendees

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

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

Action item: Chris Lilley to look into emails from google.com to the mailing list going into spam folders, e.g. Chris Cameron's email with his original HDR/WCG slides went into Ken Russell's spam folder