

Color on the web CG teleconference

2021-02-24 @ 21:00 UTC

Administrative

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

HDR support in PNG

Reviewed <https://github.com/w3c/ColorWeb-CG/pull/13> and captured group feedback

iCCP and cICP chunks

- If both iCCP and cICP chunks can be present, then decoder behavior should be specified. Perhaps specifying decoder behavior can be deferred until after requirements.
- Alternatively, only one of iCCP and cICP chunks can be present
- ICC profiles and H.273 code points serve different purposes: ICC specifies rendering whereas H.273 code points specify the nature of the pixels.
- Not all implementations support ICC profiles
- Older ICC profiles are not sufficient to signal HDR

YUV image support

- Desire expressed to support not-subsampled YUV images, i.e., 4:4:4 YUV
- PNG currently supports only RGB images

Action item: Leonard Rosenthol and Chris Blume to merge the PRs based on group feedback

WCG and HDR in Canvas/WebGPU/WebGL

Explore constrained HDR solution (talk about non-goals)

- No enthusiasm for the display-referred Floating Point (FP) signal representation according to [BT.2110, Table 10](#) (see <https://lists.w3.org/Archives/Public/public-colorweb/2021Jan/0000.html>)
- The [slides](#) defines a "Normalization for scene-referred signals":
 - (srgb 1 1 1) corresponds to xxx nits when receiving display-referred values (xxx could be specified when initializing HDR canvas)
 - (srgb 1 1 1) map to peak sRGB luminance for SDR

Action item: Chris Cameron to create strawman Canvas specification based on his slides

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

Next meeting

March 16, 2021 @ 21:00 UTC

Attendees

- Adam Argyle
- Aous Naman
- Chris Blume
- Chris Cameron
- Chris Seeger
- Jao-ke Chin-Lee
- Jeff Gilbert
- Ken Russell
- Lars Borg
- Leonard Rosenthol
- Mark Watson
- Masaru Takechi
- Phil Green
- Pierre-Anthony Lemieux (meeting chair, CG co-chair)
- Simon Thompson
- Timo Kunkel