

W3C Media & Entertainment Interest Group Meeting

7 May 2024



Agenda

Date and time

7 May 2024, 14:00-15:00 UTC

IRC

<https://irc.w3.org/?channels=#me>

IRC Guide

<https://www.w3.org/wiki/IRC>

Code of Conduct

<https://www.w3.org/Consortium/cepc/>

Agenda

- Welcome
- Launching web applications on TV devices [Chris Lorenzo, Comcast]
- Media Content Metadata CG Proposal [Hiroki Endo, NHK]
- Media WG updates [Chris Needham, BBC]:
 - Apple spatial media requirements
 - Media Capabilities requirements
- TPAC 2024 Plans
- AOB

Launching web applications on TV devices

- Demo video: <https://youtu.be/45ao1Tj8tJA> - shows TV app development on a variety of devices:
 - Local Chrome web browser
 - Raspberry Pi 3 with RDK and WPE browser
 - LG WebOS Simulator
 - LG WebOS TV
 - Samsung Tizen
- Each device has its own method for launching web apps, creating overhead during development and deployment. Standardising the approach could reduce the cost of development:
 - Offer developer mode / setting on device
 - In developer mode – a Web based GUI is available
 - GUI offers a “load url” and inspector for web apps

Media Content Metadata CG Proposal

- Review of TPAC 2023 breakout session
 - <https://www.w3.org/2023/09/13-cross-industry-media-content-minutes.html>
- CG proposal
 - Goal
 - Scope
 - Collaboration

Spatial media requirements (1/2)

- See <https://www.w3.org/2024/03/19-mediawg-minutes.html>.
- Apple presentation on gaps for spatial media support on Vision OS devices on the web
- Requirements identified:
 - **Stereo Video Support Detection** – Presenting different video to the left and right eye. Rendering not decoding capability detection
 - **Motion Safety Metadata** – Risk of making people feel unwell if there's too much motion in the video. Add support for metadata. Similar to flashing lights WebVTT proposal (see [w3c/webvtt#512](https://www.w3.org/2024/03/19-mediawg-minutes.html#webvtt-512)).
 - **Fullscreen-only Capability Detection** – 180° wide angle image viewing is only available in a fullscreen presentation, but no way to detect this capability

Spatial media requirements (2/2)

- Requirements identified:
 - **Caption Depth Data** – For video playback, where to put captions in the Z order, so they don't interfere with the depth of the scene? Needs a standard timed metadata format
 - **360°/180° Viewport Controls** – It should be easy to put immersive video in a media element and let the user control the viewpoint of the video, using either native or custom pan+tilt controls
 - **Spatial Soundscapes** – Web Audio already supports HRTFs, but simpler controls may be needed?
 - **Environment Dimming Support** – Dim the environment so it feels like you've turned down the lights in the room

Media Capabilities reminder

- Industry input to prioritisation is welcome
- See slides from [February 2024 MEIG meeting](#)
- Multiple stream decoding, codec/container transitions, display capabilities, audio rendering capabilities

TPAC 2024 plans

- TPAC 2024 is 23-27 September in Anaheim, California
- Should we organise an MEIG meeting? What topics to discuss?

Thank you!