

The background features abstract, overlapping green geometric shapes in various shades, creating a modern and dynamic visual effect. The shapes are primarily triangular and polygonal, arranged in a way that suggests movement and depth.

# Audiovisual Media Formats for Browsers

1. Community Group Meeting

July 28, 2023

# Audiovisual Media Formats for Browsers

## Agenda

1. Introductions
2. Recap of TPAC 2022 startup event
3. Charter
4. Proposals for topics to discuss
5. TPAC 2023
6. Next Steps

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

---

## RECAP OF TPAC 2022 STARTUP EVENT

# Why Are We here?

- ▶ **AV media is one of the dominant use cases on the web**
- ▶ **Media formats are advancing** and offer more and more features
  - ▶ Examples include spatial audio, HDR photo & video, AR/VR, etc.
  - ▶ This goes beyond simple HDR and multi channel audio towards **advanced HDR with complex metadata and object-based audio**



# Why Are We here?

- ▶ Many features of these **advanced formats** are **difficult or impossible to use today**
  - ▶ There might be open tools or APIs that provide rudimentary file handling & preview
  - ▶ However, many advanced features might not be supported
- ▶ Causes can be based on **implementation complexity, limited documentation, and/or lack of unique identifiers**



# Deployment in Other Markets?

- ▶ Advanced Audiovisual Formats are Widely Deployed in the Entertainment Industry (Movies, TV, Video Games)
    - ▶ TVs, mobile devices, laptop and desktop computer, soundbars, home audio,...
    - ▶ Example: Of 225 million TVs sold globally in 2020, 58% included HDR functionality (Omdia)
  - ▶ Content Providers Supply Content that utilize these advanced audiovisual formats
    - ▶ Satisfying the requirements & expectations of content creators, distributors & consumers
- ▶ On the web, these experiences are not consistently possible yet
  - ▶ The web offers options for additional experiences that are waiting to be tapped into
  - ▶ This community group is intended to focus on identifying, discussing and reporting the options to tap into these experiences



# — CHARTER

## Charter - Scope

- ▶ Provide forum to **discuss features of open & commercial audio-visual media formats** that are **relevant with web technologies** used in browsers, TVs, and Smart TVs.
- ▶ Includes **identifying and reporting** if and how individual formats and their features are
  - ▶ **referenced,**
  - ▶ **can be called from a web environment and**
  - ▶ **query necessary information** from a host system in meaningful ways.
- ▶ The **interplay & synchronization among different formats** is also considered.



## Charter - Scope

Assessments of group include

- ▶ **Developments in adjacent fields** like broadcast, OTT, gaming and film industry.
- ▶ This wide scope field is intended to **identify immediate challenges influencing audio-visual web technologies** that are not sufficiently covered by the active roadmap of other W3C groups.
- ▶ This includes **current challenges** as well as **topics of mid-term relevance and future trends**.

# Charter - Deliverables

For **current** challenges,

- ▶ **Identify changes beneficial to existing web APIs** needed to support open and commercial sound and imaging media formats.

Report **relevant trends & developments**.

- ▶ Any observations will be raised in the
  - ▶ **relevant issue tracker** for those specifications and,
  - ▶ when appropriate, provided as one or more reports identifying challenges & opportunities to other W3C groups.

## Charter - Specs, Test Suites & Non-Normative Reports

### Specifications

- ▶ No Specifications will be produced under the current charter

### Test Suites & Other Software

- ▶ The Community Group does not plan to create test suites or other software.

### Non-Normative Reports

- ▶ The group may produce other Community Group Reports within the scope of this charter but that are not Specifications,
  - ▶ E.g. suggest requirements for new APIs,
  - ▶ Future looking "technology landscape" overview reports.

# Charter - Dependencies or Liaisons

## W3C Groups

- ▶ W3C Media Working Group
- ▶ W3C Audio Working Group
- ▶ W3C Color on the Web Community Group
- ▶ W3C Immersive Web Community Group and Working Group
- ▶ W3C Media & Entertainment Interest Group
- ▶ *Any others?*

## External Groups

- ▶ We are working on establish external liaisons (*suggestions welcome!*)

# TPAC 2023

- ▶ In-person meeting in Seville, Spain
- ▶ Thu, 14 September 2023, 09:30-11:00 Central European Summer Time