CMML: Activity

• Project aim:
  – Streamable metadata for Ogg files
  – Hyperlinks ("Continuous Media Web")

• Features:
  – Separation of content and presentation hints
  – Specification for retrieving CMML table-of-contents over HTTP
CMML: Challenges

- There is a large demand for handling subtitles
  - It is important to correctly differentiate between captions, transcripts and subtitles
- Temporally overlapping metadata
  - Muxing CMML "<track>"s into separate Ogg logical bitstreams works, but you lose information of which data is common across tracks
CMML: Support

- Projects that write CMML:
  - libcmml, libannodex: mod_annodex etc.
  - OggCodecs
- Projects that read CMML:
  - oggplay
  - xine, vlc, gstreamer
  - anxrip, anxgrep etc.
CMML: Next Steps

- Define handling of captions, subtitles, and transcripts
- Stylesheets for layout of supers / subs
- Create tools for multi-language support
- Encourage support in more browsers and players