

## AVDP Viewer

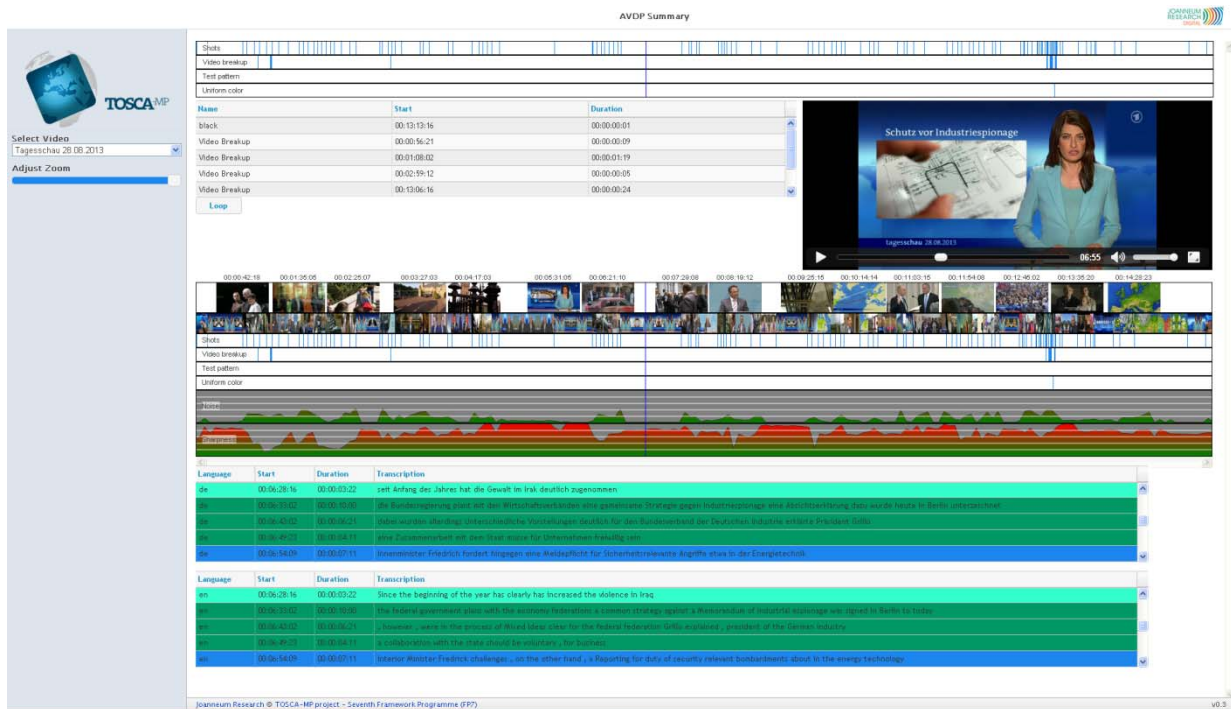
### Overview

The AVDP viewer presents timeline-based metadata of one MPEG-7 document conforming to the Audiovisual Description Profile (AVDP). The viewer provides playback and navigation in a video, synchronising a video player with different metadata views. Interaction is possible on all visualisation components. The AVDP viewer is implemented in HTML5, and thus only needs a current web browser as client. At the server side, it can be deployed as a WAR file.

### In depth description

Figure 11 provides an overview of the AVDP viewer, which contains the following views:

- Segment-based views for shot boundaries and quality analysis events
- A video player
- A table of quality analysis events
- Key frames and stripe images
- Graph views for quality measurements
- Speech-to-text and machine translation results, with one utterance per line, and colours coding the speaker



The screenshot displays the AVDP viewer interface. On the left, there is a sidebar with a 'Select Video' dropdown set to 'Tagesschau 28.08.2013' and an 'Adjust Zoom' slider. The main area is titled 'AVDP Summary' and contains several views:

- Table View:** A table listing video breakups with columns for 'Name', 'Start', and 'Duration'.
 

Name	Start	Duration
Blick	00:13:13:16	00:00:09:01
Video Breakup	00:00:56:21	00:00:09:09
Video Breakup	00:01:08:02	00:00:01:19
Video Breakup	00:02:59:12	00:00:09:05
Video Breakup	00:13:06:16	00:00:00:24
- Video Player:** A video player showing a news anchor with the title 'Schutz vor Industriespionage' and 'Tagesschau 28.08.2013'.
- Key Frame View:** A horizontal strip of small image thumbnails representing key frames from the video.
- Graph View:** A series of colored area charts representing quality measurements over time.
- Transcription View:** A table showing speech-to-text results with columns for 'Language', 'Start', 'Duration', and 'Transcription'.
 

Language	Start	Duration	Transcription
de	00:06:42:16	00:00:53:22	seit Anfang des Jahres hat die Gewalt in Irak deutlich zugenommen
en	00:06:28:16	00:00:53:22	Since the beginning of the year has clearly has increased the violence in Iraq
de	00:06:21:02	00:00:10:00	Die Bundesregierung plant mit dem Wirtschaftsminister eine gemeinsame Strategie gegen Industriespionage und Informationslecks im Bereich Unternehmens
en	00:06:42:02	00:00:00:21	Business' says in the context of World Trade Organization (WTO) ministerial conference, president of the German Industry
de	00:06:40:11	00:00:00:11	Ein Unternehmen hat die Idee, einen Roboter zu entwickeln, der die Arbeit eines Menschen übernehmen kann
en	00:06:54:05	00:00:07:11	Senior director Friedrich challenges... to the other hand... is reporting for duty of security-relevant Southwestern about the energy technology

Figure 11: User interface of the AVDP viewer.

The slider on the left allows zooming the temporal range of the timelines below the video player. This allows seeing more detail of the respective views, and the key frame view displays more key frames when zoomed in. Figure 12 shows an example of this.

The table view can also be used to navigate to the events listed there, and to use the player for looping around the event segment (see Figure 13). If needed, the player can be detached into a separate window, e.g. to display it full screen on a second screen.

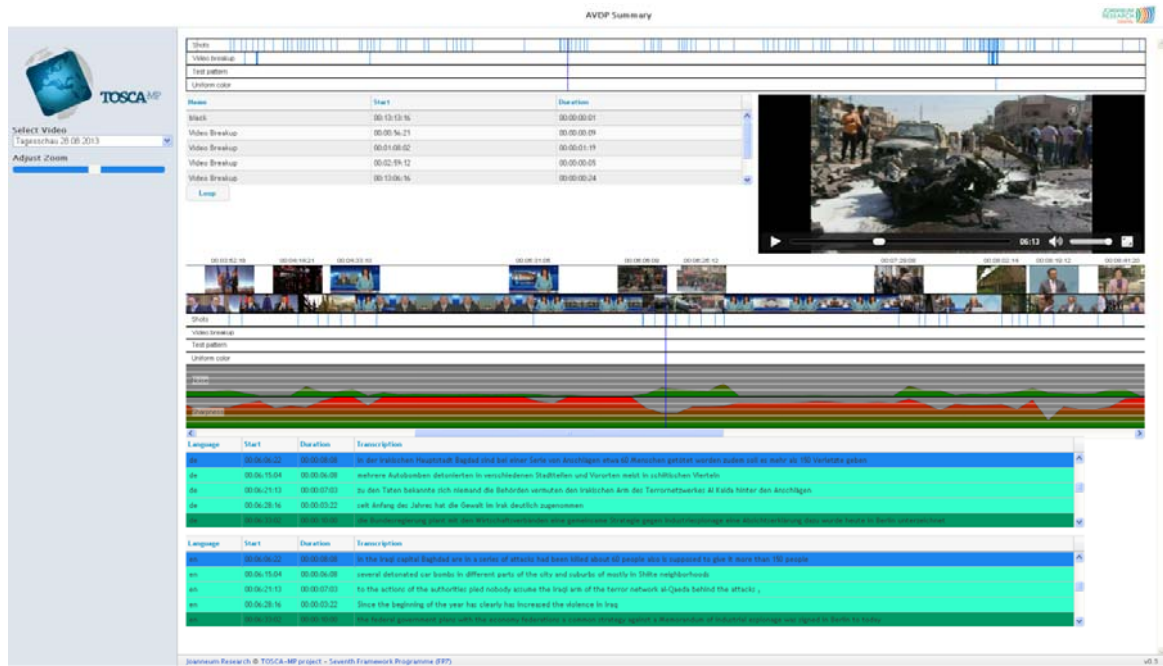


Figure 12: AVDP viewer, with some views zoomed in.

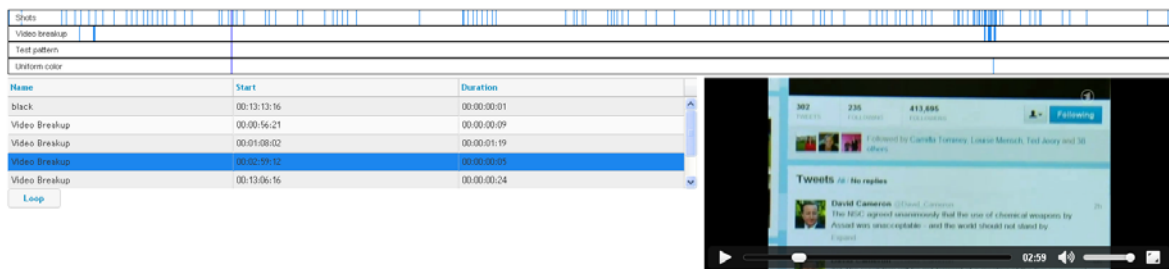


Figure 13: Navigation using the events in the table.

### Potential fields of Application

The viewer allows visualisation and navigation of time-based metadata, and thus useful for reviewing analysis results or viewing retrieval results. As it is a lightweight application and based on a standard metadata format, it can be easily integrated with other components.

### Possibilities for exploitation

The web application can be licensed for deployment on a bilateral basis or offered using a software as a service model.

### Contact Person

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