

Who am I?

- Davy Van Deursen
 - post-doctoral researcher
 - @ Ghent University - IBBT, Belgium
 - member of the W3C Media Fragments Working Group
 - main research interests
 - metadata modeling – Semantic Web technologies
 - with focus on multimedia applications
 - adaptation and delivery of media resources
 - video coding (scalable, next-gen, ...)
 - <http://multimedialab.elis.ugent.be/dvdeurse>

What is my project?

- NinSuna
 - media delivery platform
 - through HTTP or RTSP
 - based on a model for media bitstreams
 - implemented with Semantic Web technologies
 - format-independent adaptation & packaging
 - currently supported
 - H.264/AVC, AAC, Ogg Theora, Ogg Vorbis
 - MP4, 3GPP, RTP
 - manages both media and their (RDF-based) metadata
 - <http://multimedialab.elis.ugent.be/NinSuna>



NinSuna: activities

- Provide a server-side implementation for the Media Fragment URIs
 - e.g., `http://foo.com/media.ogg#t=10s,20s`
 - use NinSuna in the back-end for adaptation operations (track & temporal selection)
- Extend the platform with more media formats
 - Dirac, Ogg Skeleton, ...
 - MPEG-2 TS (Apple's HTTP Live streaming)
- Explore the world of mobile media delivery
 - device detection and smart adaptation decision-taking
 - mobile Media Fragment URI support (Android focus)

NinSuna: challenges

- Media fragment clients for NinSuna
 - browser-based
 - client vs. server media fragment processing
 - mediaplayer-based
 - initial experiments with VideoLan Client
 - track (or metadata?) discovery problem
 - initial experiments with own model and ROE
- Mobile media delivery
 - delivery method
 - HTTP progr. dl., RT stream., HTTP stream.
 - codec support? (Ogg?)
 - focus on Android media player