



Guided Research: Analyzing the usage of a video annotation tool

Daniel Schosser

Software Engineering für betriebliche Informationssysteme (sebis) Fakultät für Informatik Technische Universität München

wwwmatthes.in.tum.de

Problem description



- Analyzing different video annotation tools on their effects on learners behavior
- Comparing user interfaces and ways of giving feedback to the user
- Determine essential data for measuring positive/negative effects
- Automatically collect and analyze this data in our own prototype



Analyze existing tools Determine essential data to be collected Implement and evaluate prototype Automatic analysis of learner's behavior

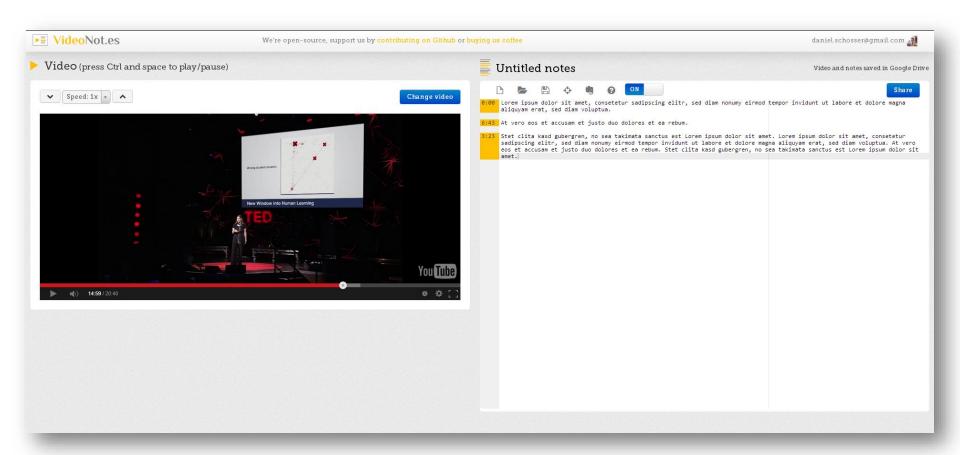
Current Status Comparison



	VideoANT	VideoNot.es	Mediathread	Matterhorn				
File formats	YouTube, .mp4, .flv	YouTube, .mp4	Videos, Images,	Upload only				
Storage	Website	GoogleDrive	Website	Website				
Synchronization	No	No	Yes	Yes				
Live stream	Yes	Yes	No	Yes				
Interface- Complexity	Simple	Simple	Intermediate	Complex				

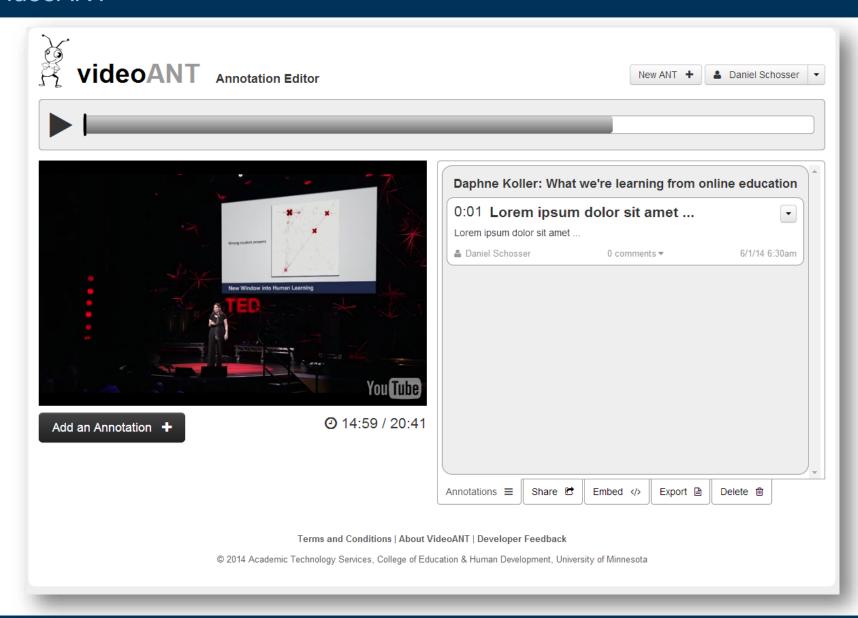
Current Status VideoNot.es





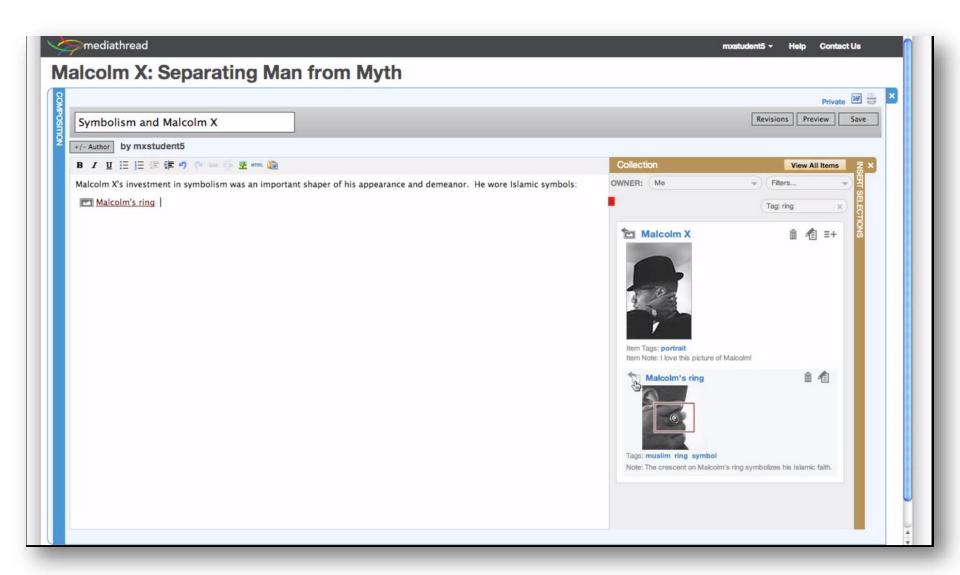
Current Status VideoANT





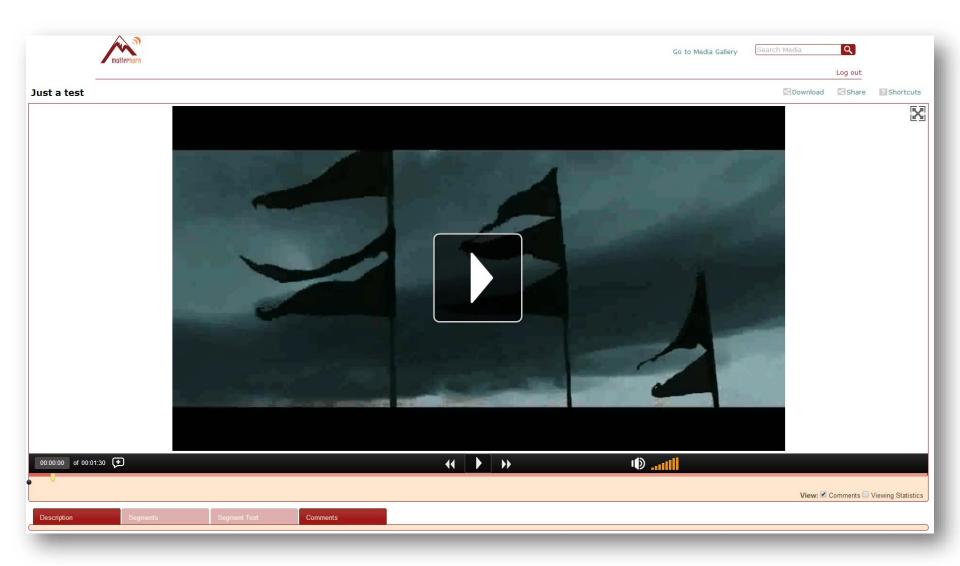
Current Status Mediathread





Current Status Matterhorn





Current Status

Matterhorn Complexity





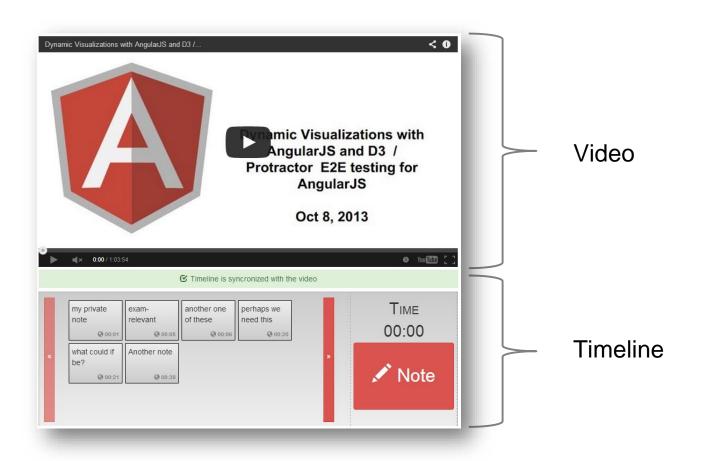
Current Status Prototype



- Based on application from Master Lab course (WS 2013/2014)
- Rebuild into a light-version
 - Removed unnecessary features
 - Made it more generic
 - Replaced Login/Register functionality

Current Status Prototype





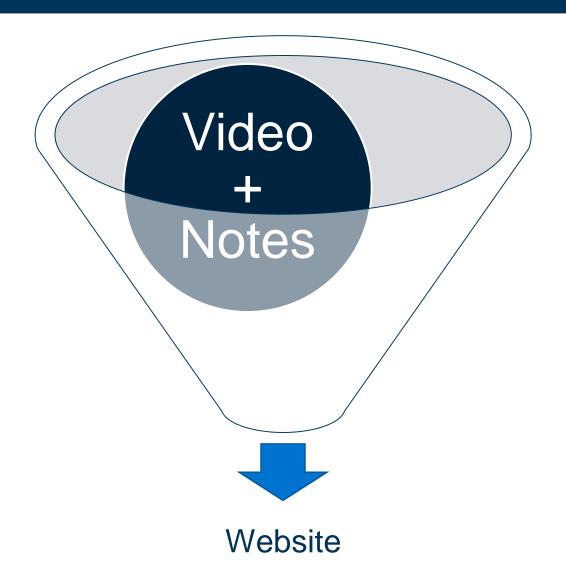
Current Status Prototype





Current Status Main Use case



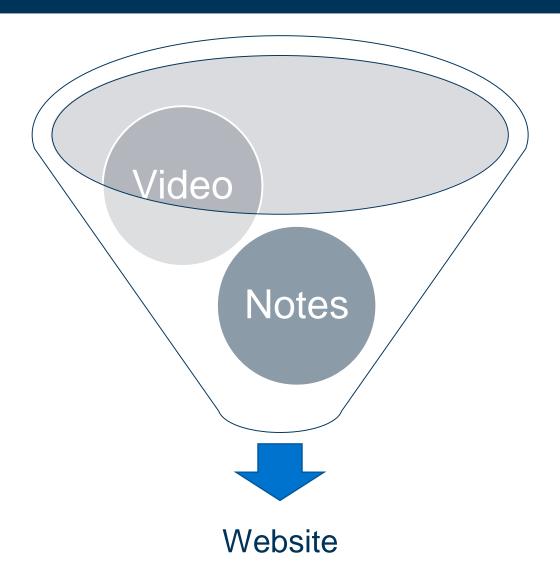


Current Status Dependencies



- Internet-connection
- Streaming-Software (Hangouts, OpenBroadcaster Software, XSplit ...)
- YouTube API for Live stream





Current Status Essential Data



Why do people use certain features in one tool, and not in another?

- Are people aware of the feature?
- Is it too difficult too use?
- Is there any benefit from using that feature?
- How do they use a feature?

How can this be improved?

Next Steps



- Define what data to collect
- Implement second use case
 - Provide another interface for the live note trackers
 - Determine how to synchronize video with notes
 - Determine how to stream video from third party server
- Testing
- Write a scientific paper

Gantt Chart



Name	Start	Finish	June 2014				July 2014				August 2014					September 2014					
			29	5	12	19	26	3	10	17	24	31	7	14	21	28	4	11	18	25	2
Analyzing & Collecting Data	06/02/2014	06/30/2014		_	_	_	-														
Developing Prototype	06/02/2014	06/30/2014		_	_	_															
Testing	07/01/2014	08/11/2014							_	_	_		_								
Writing scientific paper	07/01/2014	09/30/2014							_	_	_		_	_	_	ヿ	_	_	_		



Thank you for your attention! Any questions?