

# **Collaboration, Preservation and Sustainability in Digital Humanities: a question of time**

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# Interdisciplinary collaborative practices - context

- AdA project (“audio-visual rhetorics of affect”)
- Film studies (FU Berlin) & computational sciences (HPI Potsdam)
- Analysis of temporal dynamics of audiovisual expressivity
- Methodology of film analysis + computational video analysis + semantic video annotation

→ Groundwork for collaborative annotation process: AdA Filmontology

<https://projectada.github.io/>

<https://www.ada.cinempoetics.fu-berlin.de/en/>



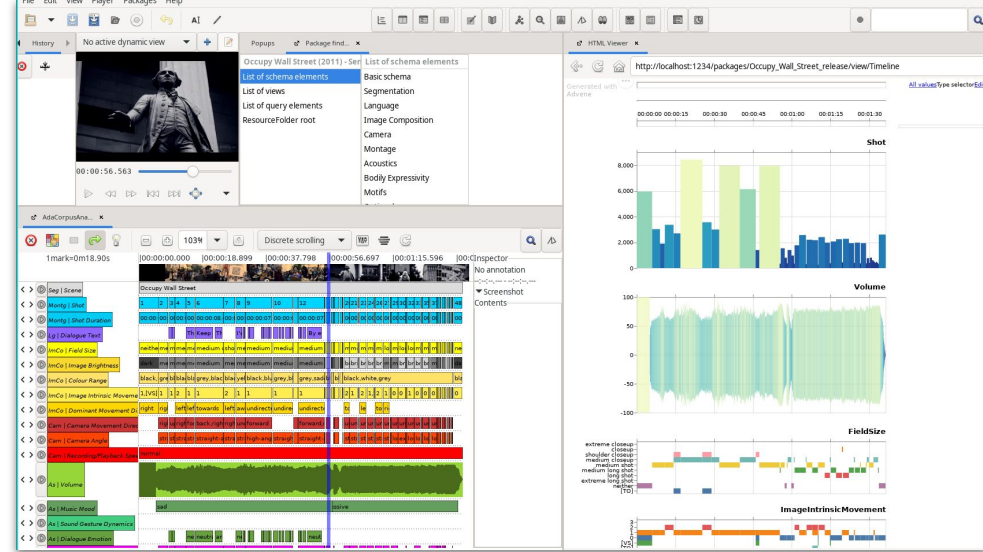
# Advene project

[Advene software](#) – for movie annotation, using flexible data structures, and hypervideo authoring

[www.advene.org](http://www.advene.org)

Evolutions during the AdA project

- improved semantic web support (ontologies)
- feature extraction plugins
- UI optimisation and extension
- general maintenance (python2->3, etc)



Popups Checker x

List of possible issues in the current package

Overlapping	Completions	Ontology URI	Duration	Type	Empty Content	AdA syntax
This table presents the annotations that have an empty content.						
Snapshot	Content	Type	Begin	End	Duration	
	11c6cb45-fbf9-11e9-bc1c-a08cfdc6ff91	ImCo   Image Intrinsic Movement	00:59:14.320	00:59:14.360	00:00:00.0	
	632e70ad-3206-11ea-b87b-a08cfdc6ff91	ImCo   Image Brightness	01:01:08.680	01:01:15.949	00:00:07.2	
	632e70ae-3206-11ea-b87b-a08cfdc6ff91	ImCo   Image Brightness	01:01:15.949	01:01:21.720	00:00:05.7	
	632e70af-3206-11ea-b87b-a08cfdc6ff91	ImCo   Image Brightness	01:01:21.720	01:01:26.840	00:00:05.1	
	632e70b0-3206-11ea-b87b-a08cfdc6ff91	ImCo   Image Brightness	01:01:26.840	01:01:29.680	00:00:02.8	
	632e70b1-3206-11ea-b87b-a08cfdc6ff91	ImCo   Image Brightness	01:01:29.680	01:01:36.160	00:00:06.4	
	632e70b2-3206-11ea-b87b-a08cfdc6ff91	ImCo   Image Brightness	01:01:36.160	01:01:38.120	00:00:01.9	
	632e70b3-3206-11ea-b87b-a08cfdc6ff91	ImCo   Image Brightness	01:01:38.120	01:01:39.560	00:00:01.4	
	11b20132-392f-11ea-b01d-a08cfdc6ff91	As   Sound Gesture Dynamics	01:12:39.768	01:12:40.061	00:00:00.2	
	5b0a59dc-0bab-11ea-802b-a08cfdc6ff91	Cam   Camera Movement Direction	01:18:27.240	01:18:27.512	00:00:00.2	

# Co-Building a Digital Humanities tool

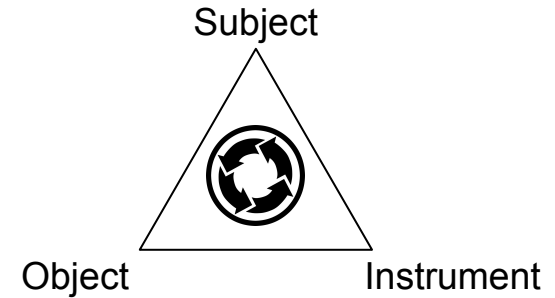
Genealogy of an annotation timeline for the analysis of film (& other time-based media)

From 'tool development' to 'instrumental genesis': importance of methodical & theoretical reflections in interdisciplinary DH-projects



# Instrumental genesis

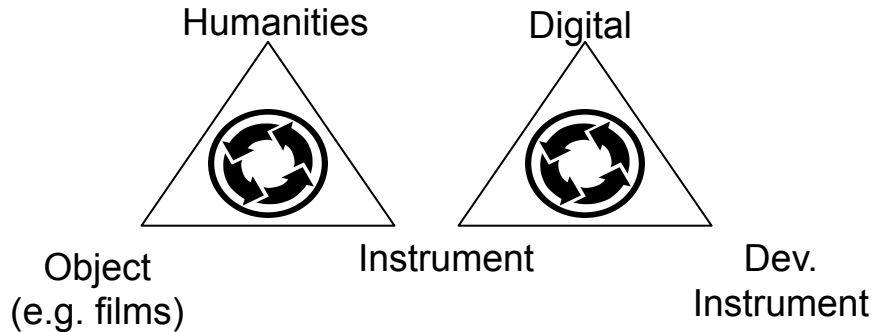
co-evolution of the instruments  
and the practices they make possible.



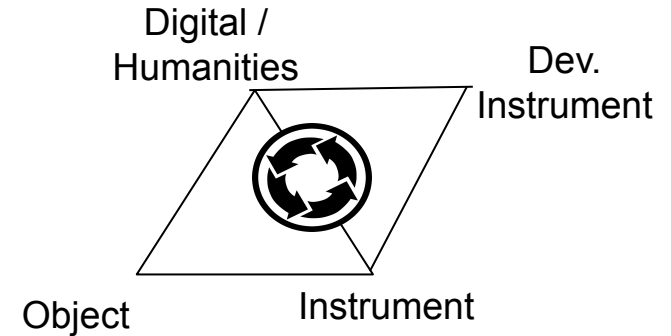
Rabardel 1995

## Interdisciplinary instrumental genesis

From distinct concerns...



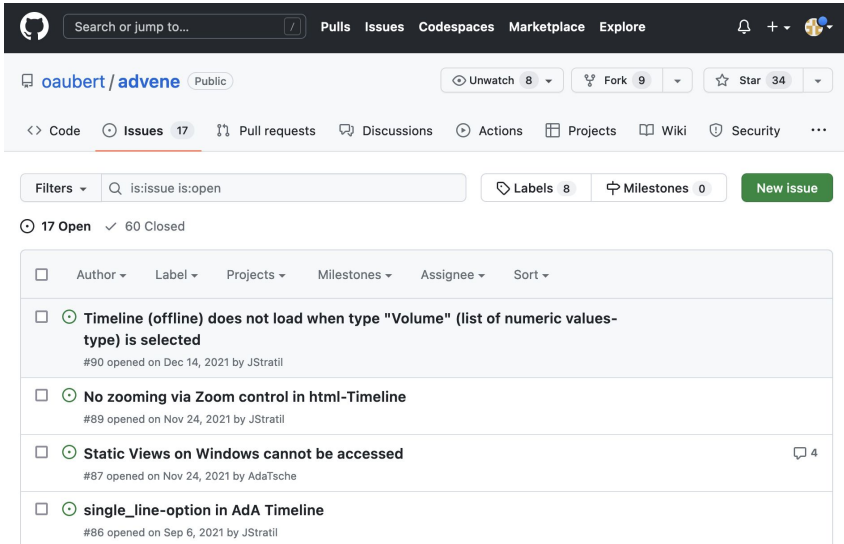
... to shared practices and interests



Aubert, Scherer, Stratil 2021

# Collaboration Tooling & technical workflows

## GitHub

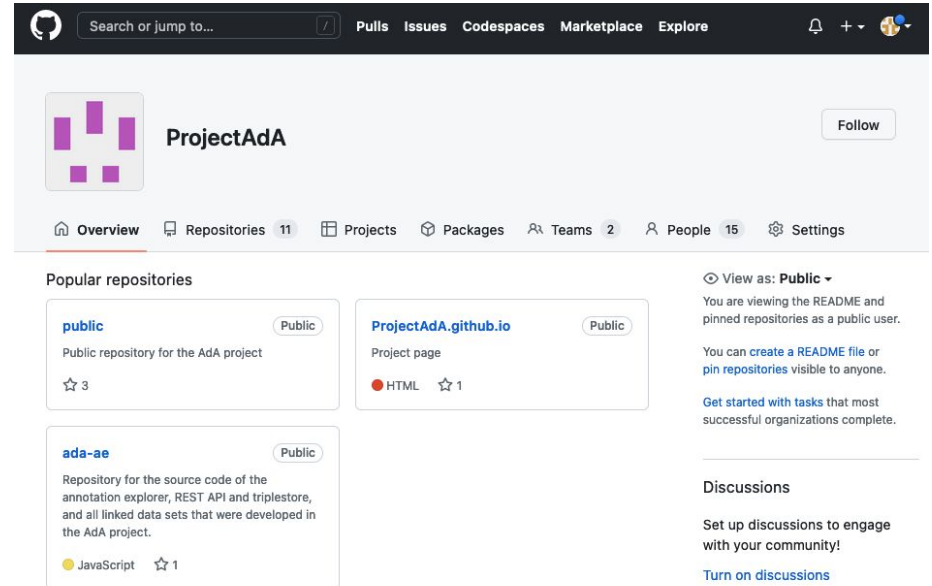


GitHub repository page for **oaubert / advene** (Public). The page shows navigation tabs for Code, Issues (17), Pull requests, Discussions, Actions, Projects, Wiki, and Security. The Issues tab is active, displaying a list of 17 open issues. The search filter is set to "is:issue is:open".

Filters:  Labels: 8 Milestones: 0 [New issue](#)

17 Open ✓ 60 Closed

<input type="checkbox"/>	Author	Label	Projects	Milestones	Assignee	Sort
<input type="checkbox"/>	<a href="#">Timeline (offline) does not load when type "Volume" (list of numeric values-type) is selected</a>					
	#90 opened on Dec 14, 2021 by JStratil					
<input type="checkbox"/>	<a href="#">No zooming via Zoom control in html-Timeline</a>					
	#89 opened on Nov 24, 2021 by JStratil					
<input type="checkbox"/>	<a href="#">Static Views on Windows cannot be accessed</a>					4
	#87 opened on Nov 24, 2021 by AdaTsche					
<input type="checkbox"/>	<a href="#">single_line-option in AdA Timeline</a>					
	#86 opened on Sep 6, 2021 by JStratil					



GitHub repository page for **ProjectAdA** (Public). The page shows navigation tabs for Overview, Repositories (11), Projects, Packages, Teams (2), People (15), and Settings. The Overview tab is active, displaying a list of popular repositories.

Popular repositories

- [public](#) (Public) - Public repository for the AdA project. 3 stars.
- [ProjectAdA.github.io](#) (Public) - Project page. 1 HTML file, 1 star.
- [ada-ae](#) (Public) - Repository for the source code of the annotation explorer, REST API and triplestore, and all linked data sets that were developed in the AdA project. JavaScript, 1 star.

View as: **Public**

You are viewing the README and pinned repositories as a public user. You can [create a README file](#) or [pin repositories](#) visible to anyone. [Get started with tasks](#) that most successful organizations complete.

**Discussions**

Set up discussions to engage with your community! [Turn on discussions](#)

# Timescales to consider: before funding period

Cinepoetics – Center for Advanced Film Studies 2015-2024

Funded Projects

Earlier projects  
eMAEX-  
Annotation  
routine

**AdA project 2016-2021**

Tasks

Tools

**Advene** 

Earlier projects /  
collaborations

**Maintenance**

Technological context



Libraries, Operating systems,  
Platforms (GitHub, Zenodo)...



Time

2016

2021



# Timescales to consider: during and beyond funding period

Cinepoetics – Center for Advanced Film Studies 2015-2024

**AdA project 2016-2021**

eMAEX-  
Annotation  
routine

AdAToolkit

New  
projects:  
research  
&  
teaching

Adaptation /  
Usage  
Sketching  
Testing  
Development

Documentation  
Usage / Adaptation

AdA Filmontology

AdA Annotation Explorer

**Advene** 

Earlier projects /  
collaborations

New projects /  
collaborations

Maintenance

Development

Maintenance

Libraries, Operating systems,  
Platforms (GitHub, Zenodo)...



2016

2021





# Timescales to consider: beyond funding period

<https://projectada.github.io/>

eMAEX-  
Annotation  
routine

AdAToolkit  
Documentation  
Usage / Adaptation

New  
projects:  
research  
&  
teaching

AdA Filmontology

AdA Annotation Explorer

Advene 

New projects /  
collaborations

**Maintenance**  
Libraries, Operating systems,  
Platforms (GitHub, Zenodo)...



# References

**Aubert, Olivier / Scherer, Thomas / Stratil, Jasper** (2021): “Instrumental Genesis through Interdisciplinary Collaboration – Reflections on the Emergence of a Visualization Framework for Video Annotation Data.” EADH 2021.

**Bakels, Jan-Hendrik / Grotkopp, Matthias / Scherer, Thomas / Stratil, Jasper** (2020): “Matching Computational Analysis and Human Experience: Performative Arts and the Digital Humanities.” *DHQ: Digital Humanities Quarterly* 14 (4). <http://www.digitalhumanities.org/dhq/vol/14/4/000496/000496.html>.

**Rabardel, Pierre** (1995): *Les hommes et les technologies, une approche cognitive des instruments contemporains*, Armand Colin, Paris.

**El Khatib, Randa / Wrisley, David Joseph / Elbassuoni, Shady / Jaber, Mohamad / El Zini, Julia** (2019): “Prototyping Across the Disciplines”, in: *Digital Studies/Le champ numérique*, 8, 1, p.10. DOI: [10.16995/dscn.282](https://doi.org/10.16995/dscn.282).

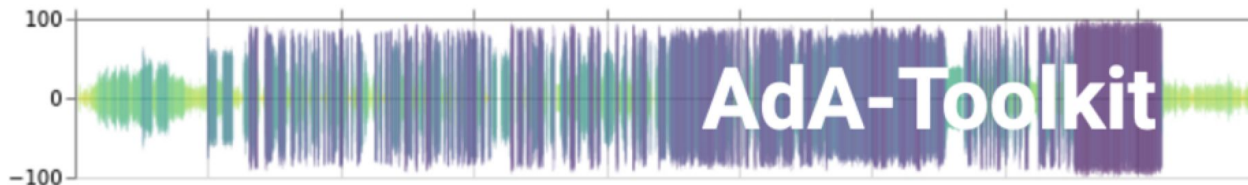
**Pargman, Teresa Cerratto / Nouri, Jalal / Milrad, Marcelo** (2018). “Taking an instrumental genesis lens: New insights into collaborative mobile learning”. *British Journal of Educational Technology*, 49(2), 219-234.

**Advene** – Video annotation and hypervideo authoring: <https://advene.org/>

**AdA Timeline DEMO**: <https://olivieraubert.net/hpi/timeline.html>

**AdA project**: <https://www.ada.cinepoetics.fu-berlin.de/en/index.html> / <https://projectada.github.io/>

**AdA Annotation Explorer**: <https://project1.ada.cinepoetics.org/explorer/>



<https://www.ada.cinepoetics.fu-berlin.de/en/ada-toolkit/>

## AdA Filmontology – Levels, Types, Values

English version  
Version 1.0 / July 2021

by Thomas Scherer, Jasper Strall, Yvonne Pleischner, Rebecca Zorko, Anton Buzal, Jolo Pedro Prado, Henning Aig-Rickauer, Christian Hentschel, Harald Sack, Matthias Grottkopp, and Jan-Hendrik Bakels

Junior research group "audio-visual rhetorics of affect", Freie Universität Berlin / Hasso-Plattner Institut, Potsdam. Funded by the federal ministry of education and research.

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## Manual: Annotating with Advene and the AdA Filmontology

Yvonne Pleischner, Jolo Pedro Prado, Rebecca Zorko, Anton Buzal, Thomas Scherer, Jasper Strall, Jan-Hendrik Bakels

Freie Universität Berlin, BMBF-Nachwuchsgruppe "Affekt rhetoriken des Audiovisuellen" (the "Audio-visual Rhetorics of Affect" junior research group, funded by the German Federal Ministry of Education and Research).

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English version (a German version can be downloaded [here](#))  
Translated by Stefan Jacob

Version 1.0 (June 2021)  
Advene: version 3.13  
AdA Filmontology: version 1.0

We are grateful to Maximilian Steck, Janine Leona Schleicher, Cili Pogodda, and Olivier Aubert for their preliminary work, feedback, and assistance in preparing this document.

## Hinweise zum kollaborativen Annotieren mit der AdA-Filmontologie

Anton Buzal, Yvonne Pleischner, Jolo Pedro Prado, Thomas Scherer, Jasper Strall, Rebecca Zorko and Jan-Hendrik Bakels.

BMBF-Nachwuchsgruppe „Affekt rhetoriken des Audiovisuellen“, Freie Universität Berlin.

Version 1.0 (Juli 2021)

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# AdA Annotation Explorer

<https://project1.ada.cinepoetics.org/explorer/>

AdA Annotation Explorer v1.1 (Nov 2021) [Annotations online: 565599]

Charts  Scale  Colors  Legend  Movie Scenes Player List Settings Menu

Text:

Filter by:

Movies:

Types:

Find whole words only

**Movies**  
Select: All | None  
Expand: Categories | All | None

- Documentary
- Feature Film
- TV News

**Annotation Types and Values**  
Select: All | None  
Expand: Level | All | None

- Segmentation
- Language
- Image Composition
- Camera
- Montage
- Acoustics
- Bodily Expressivity

Welcome to the **AdA Annotation Explorer**,  
the current prototype of our web-based application for querying, analyzing and visualizing semantic video annotations.  
The Annotation Explorer is a joint work of the Semantic Technologies Group of HPI Potsdam, the film studies department  
of FU Berlin, and Joscha Jäger the author of FrameTrail. Please visit our [AdA Project website](#) for more information.

To visualize annotations, you can either query one or more annotation types from one or more movies and/or scenes, or search for text and predefined values.

Be **careful** when selecting all scenes or all types, as a large number of annotations will slow down your browser.  
Please note that for copyright reasons we can only grant public access to the public domain video **"Occupy Wall Street"**.  
The application does not work with Internet Explorer.

If you have any technical questions, please contact [Henning Agt-Rickaue](#). If you have any questions about the annotations or the corpus, please contact the [FU Berlin team](#).

Click to load an example query:

AdA-Filmontology & Video Player Interaction – 'Occupy Wall Street'	Detailed Video Comparison – Two Occupy-Wall-Street Videos	Combined Value Search – Sad Music + Close Field Sizes
Full-Text Search – 'Wall Street'	Full-Text Search – 'Ship' (esp. Automated Image Captioning Results)	Macro Dynamics Full-Length Feature Film – 'The Company Men'
Automatically Generated Annotations – 'The Margin Call'	Comparison of Automatically Generated Annotations for several Feature Films	Automatically Generated vs Manual Annotations – Segments of Music and Speech

