

# Clipper: An annotation toolkit for researchers using online audio visual media

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**The Clipper Project: @ MECCSA Practice Based Research Symposium, Edinburgh Napier University**

- » Not well supported in current institutional research data management infrastructure and planning, but the use of such media is rapidly expanding.
  - » The nature of the media itself - compared to traditional academic textual resources:
    - › Large file sizes
    - › 'Lumpy' data format, that's hard to analyse and it is even harder to share your analysis
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- » Clipper enables users to create 'virtual' clips that can be annotated using free text and shared as URIs - without altering or copying the original media files.
  - » The general aim of Clipper is summed up by this strapline:  
*"making video and audio as easy to work with as text"*
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## » Clipper 1. 2. 3...and 4

- 1. Clip:** Create a virtual clip (i.e. source file, start and stop point)
- 2. Organise:** Annotate and store clips and cliplists
- 3. Share:** Cool URIs for sharing playable clips, cliplists & annotations
- 4. Portable:** Your data is not trapped...you can export, convert and move etc.

The screenshot displays the Clipper web application interface. At the top, the browser address bar shows the URL `reachwill.co.uk/clipper2.1/clipper-editor/#`. The application header includes the 'clipper' logo and navigation links for 'Project Dashboard', 'Log out', and 'Feedback'. Below the header, the main content area is titled 'OU Labcast demo' and features three tabs: 'Collections' (highlighted in orange), 'Project Resources (4)', and 'Project Cliplist (6)'. A central instruction reads: 'Start by searching and adding videos to the project resources. Once you have resources added to the project, proceed to creating clips in the Project Resources section.' The interface includes a 'Search Youtube' section with a search bar containing the text 'vegetables' and a 'YouTube' logo. Below this, there are three search result cards: 'The Roslin Institute' (with a 'PROSLIN' logo), 'The Royal Conservatoire of Scotland', and 'BBC Collection'. On the right side, a video player is active, showing a 2x2 grid of video thumbnails. The top-left thumbnail is labeled 'Merge 860 min' and 'CTNS'. The top-right thumbnail is labeled 'Merge 860 min' and '1.5µM CHIR'. The bottom-left thumbnail is labeled 'Merge 860 min' and '1.5µM CHIR'. The bottom-right thumbnail is labeled 'Merge 860 min' and '200µm'. The video player has a progress bar at the bottom showing '0:02 / 0:09' and a volume control icon.

- 1. Code:** Open source code
  - 2. Service:** Online service that enables users to cite, reference, quote and annotate online audio-visual resources just like text
  - 3. Continued Development:** New features, projects and collaborations
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**» Clipper consortium**

- › City of Glasgow College
- › Open University
- › Reach Will Limited

**» Pilot projects**

- › The Royal Scottish Conservatoire
- › EUSCREEN
- › The Roslin Institute
- › BUFVC

**» Industry / technology support (collaborators)**

- › Microsoft Research / Azure (cloud services)
  - › W3C AWG
  - › Digirati (data model standards - IIF)
  - › Software Sustainability Institute
  - › Nature Journals
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- » Utility
  - » Impact (REF)
  - » Curation
  - » Innovation Platform e.g.
    - › Archive Deep Access and Storytelling
    - › Collaboration
    - › Shared Authorship
    - › Citizen Research
  - » NB web annotation is rapidly developing...see W3C work
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- » Widening our focus
    - › Education and training
    - › Culture and Heritage
  
  - » New projects, collaborators and funding...
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## » Contacts

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- › Trevor Collins ([trevor.collins@open.ac.uk](mailto:trevor.collins@open.ac.uk))
- › Will Gregory ([reachwill@gmail.com](mailto:reachwill@gmail.com))

## » Further information

- › Blog: <http://blog.clippertube.com>
  - › Demo: <http://clippertube.com/rcs/dip>
  - › Twitter: [#clippertube @clipper\\_rdm](#)
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- » Video
- » Web link
- » Handouts

# Clipper

Projects

Log out

Feedback

## MECCSA Napier

Collections

Resources (1)

Cliplist (1)

MECCSA Napier - cliplist (1)

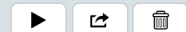


Search cliplist...

**MECCSA Demo**

A Clipper Clip showing the process of making a clip and adding it to a cliplist

00:00:44 - 00:02:28



Annotations (0)

MECCSA

00:01:00

The screenshot shows the Clipper web interface. At the top, there are navigation links for 'Project Dashboard', 'Log out', and 'Feedback'. Below this, there are tabs for 'Collections', 'Project Resources (1)', and 'Project Cliplist'. A search bar is present with the text 'Search YouTube'. Below the search bar, there are several video thumbnails from the 'BBC Collection' and 'Wellcome Trust Collection'. A video player is visible on the right side of the interface, showing a woman in a kitchen setting. The video player has a progress bar and a 'YouTube' logo at the bottom right.

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» Video –MECCSA DEMO

› <http://clippertube.com/rcs/dip/wp-content/users/clipper30/1465735449567/>

» Web link to Demo site (prototype)

› <http://clippertube.com/rcs/dip/>

» Handouts for self-registration and instructions

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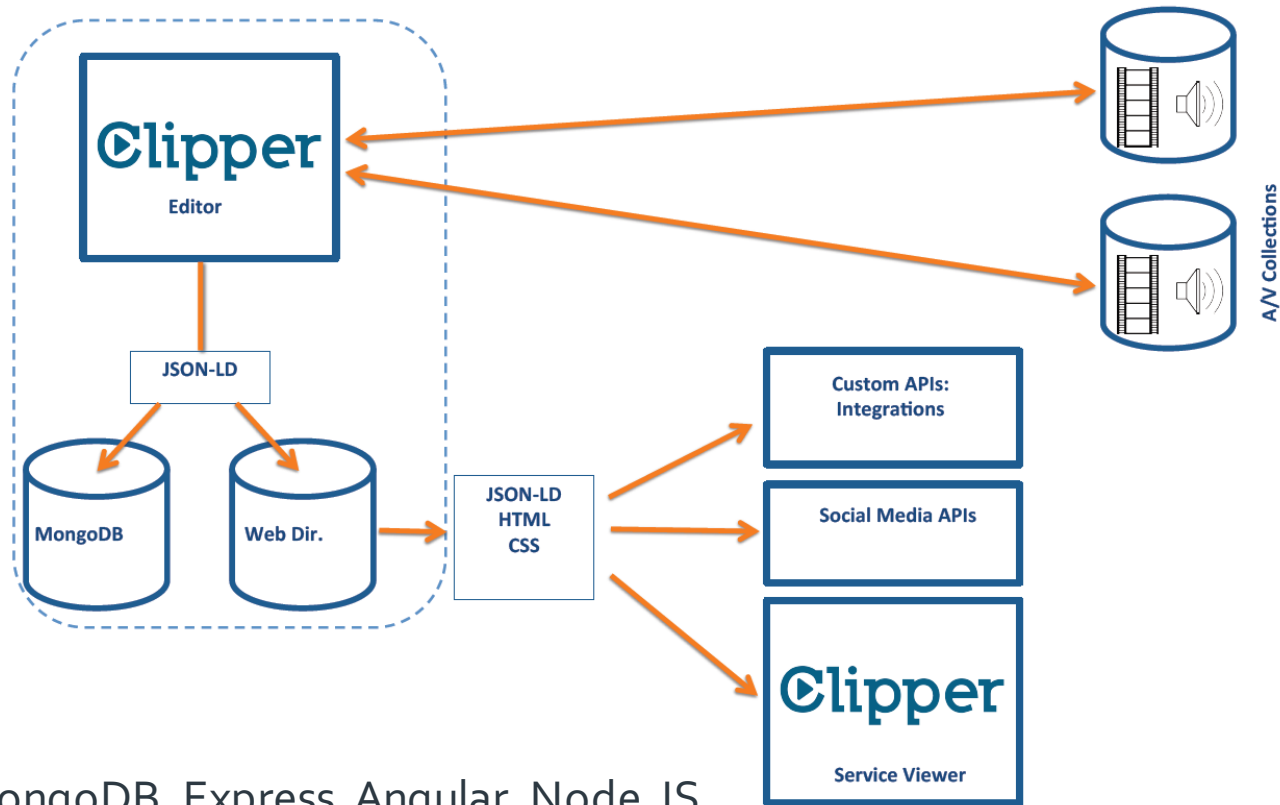
*"From this perspective Clipper is both an Annotation Engine and Aggregator"*

- » The W3C Web Annotation Working Group
    - › <http://www.w3.org/annotation/>
    - › About to be formalised
    - › Big implications for all research...
  - » Clipper generates annotations at increasing levels of granularity re: the timeline(s)
  - » Clipper collects annotations from different sources at increasing levels of scale re: the timeline(s)
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*"From this perspective Clipper is both an Annotation Engine and Aggregator"*

- » Clipper generates annotations at increasing levels of granularity re: the timeline(s)
    - › Online media source bookmarked
    - › Virtual Clip created from source timeline
    - › Textual Annotations 'pinned' to timeline of Clips
  
  - » Clipper collects annotations at increasing levels of scale re: the timeline(s)
    - › Clip – a media source and its 'Clipper' annotations
    - › Cliplist – a collection of different clips and their 'Clipper' annotations
    - › Project – a collection of Cliplists
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MEAN: MongoDB, Express, Angular, Node.JS

- » Rebuild previous prototype from scratch
    - › Mobile first
    - › Modern , open and scalable tech
    - › Free open source code
  
  - » Standards Integration
    - › W3C Annotation Data Model– current
    - › Future
      - IIIF (International Image Interoperability Framework) for data model
      - DOI for associating Clipper outputs with research data providers
      - ORCID for researcher identity
      - OAI-PMH for sharing metadata
-

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