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MemoRekall-IIIF: An open source and versatile web application for video and digital document annotation

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MemoRekall - IIIF

An open source and versatile web application for video and digital document annotation

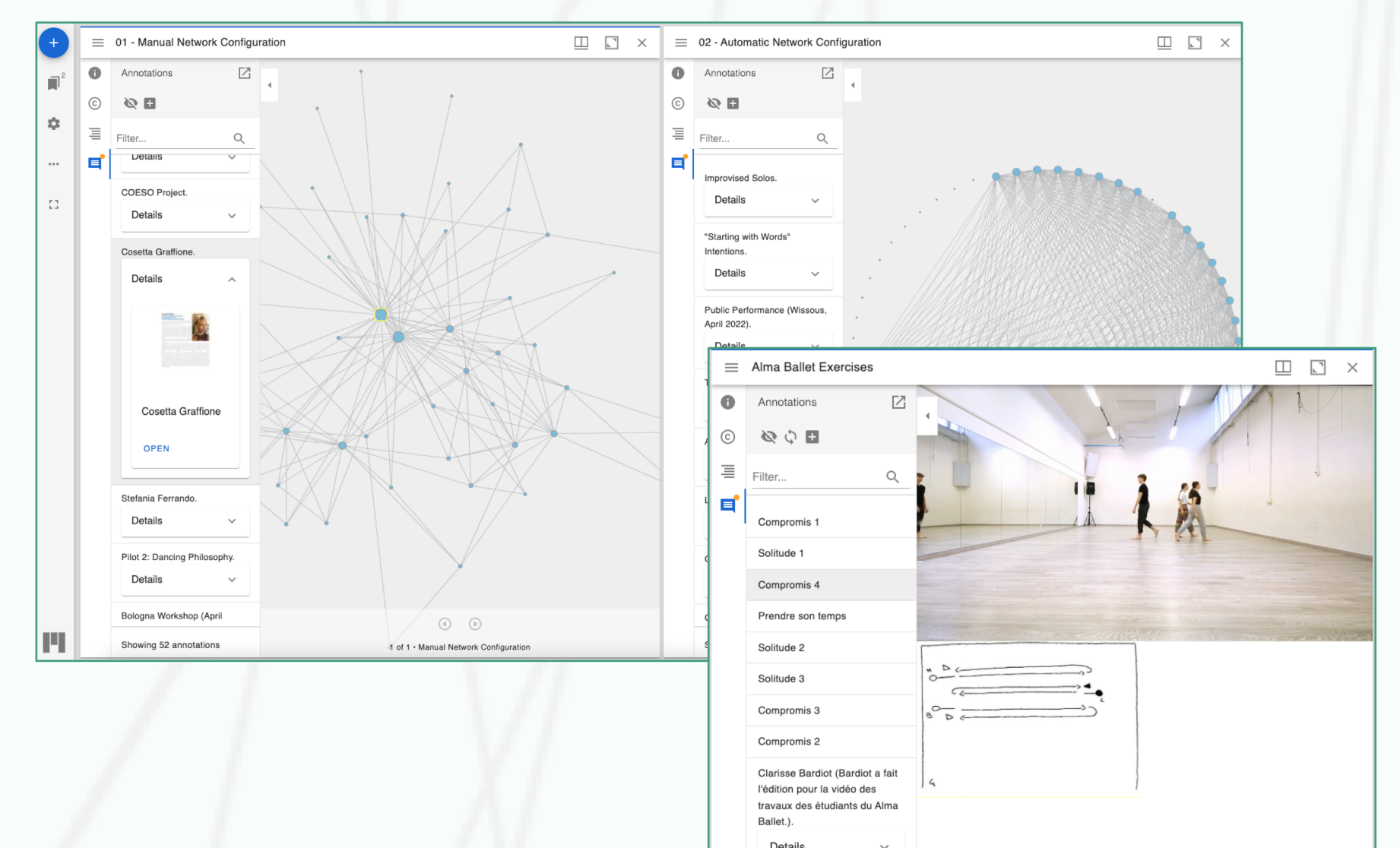
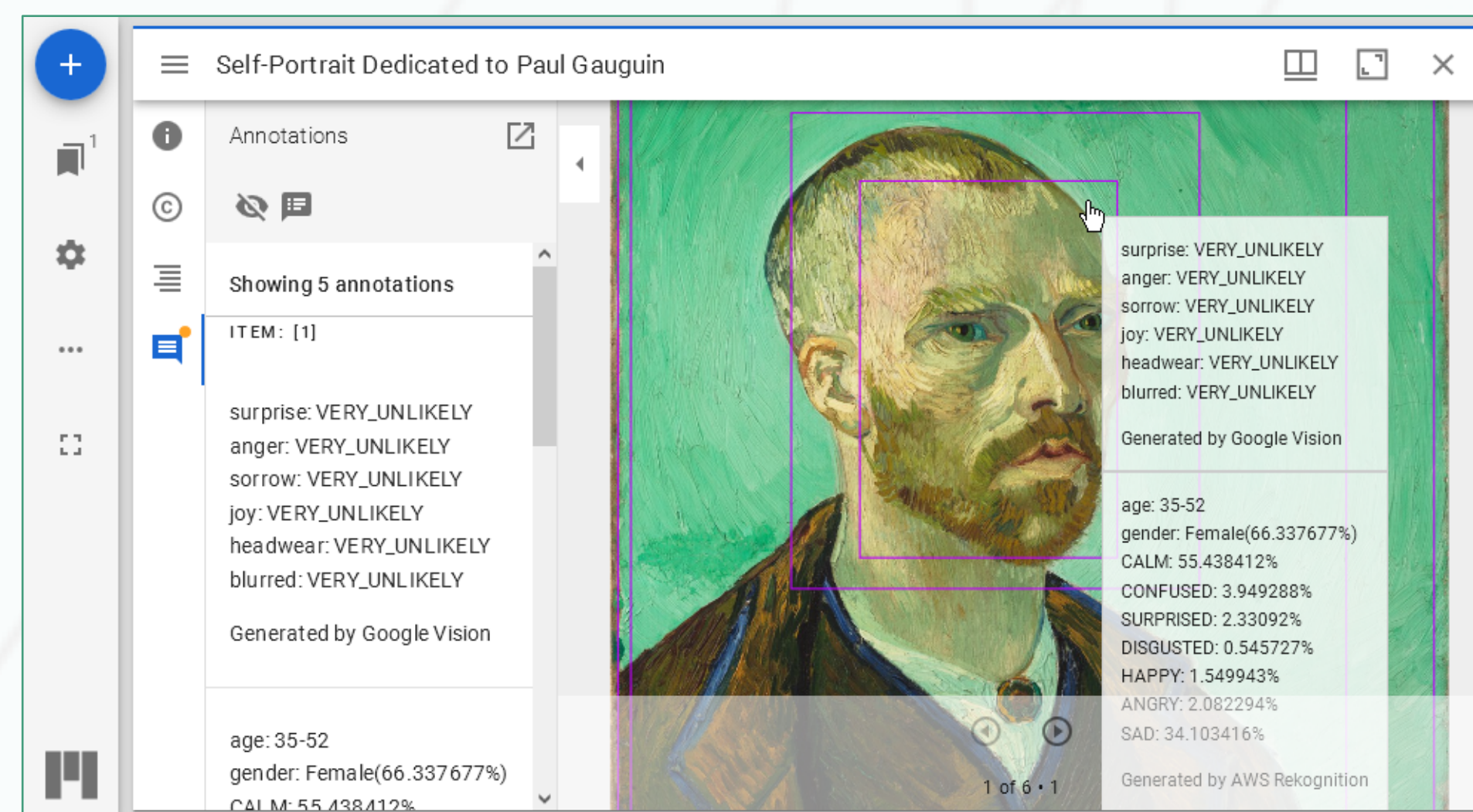


www.memorekall.com

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- Researchers need tools to enrich **digital** or **digitized** documents, both to **support the analytical process** and to **render the results** of their work.
- We need to **expand on the original content** by **annotating** it and **linking** it to a multimedia context (through manual and AI/ML processes).
- **Existing tools** differ regarding their supported formats, annotation modalities, cooperation features, sharing capabilities, interoperability, extensibility, etc.
- Users find themselves in a situation of **vendor lock-in**. Work is 'trapped' in **proprietary formats**, leading to the **fragmentation of annotated content** in silos.
- As such, we propose a prototype, MemoRekall-IIIF: an environment that focuses on **extensibility** and **interoperability** to allow for **collaborative** and **incremental** research.
- We are actively developing the tool, and are eager to get **user feedback**. Test out the demos, and let us know what you think.

Prototype Development: IIIF Integration



MemoRekall-IIIF is a complete re-implementation of MemoRekall - a video annotation tool developed in a **co-creation process** between **developers** and **digital humanities researchers**. It follows the same **practice-led development** process, but presents a number of **technical** and **epistemological shifts**.

Integration of IIIF (International Image Interoperability Framework). Allows for **interoperability**, **sharing** and **cumulative work** that builds on **existing GLAM databases**. MemoRekall-IIIF is based on the widely-used IIIF viewer **Mirador**.

We have **extended** the Mirador viewer:

- Full **video** and **audio** support.
- **Interactive annotations**.
- Fluid **multimodal document network navigation**.
- **Data-driven interfaces**.

MemoRekall to MemoRekall-IIIF

	MemoRekall	MemoRekall-IIIF Prototype
Open Source	✓ www.gitlab.tetras-libre.fr/rekall/	✓ www.gitlab.tetras-libre.fr/iiif/POC-mirador
Sharing Capabilities	✓ Direct link or embeddable code.	✓ Direct link or embeddable code.
Cooperation Features	✓ Several users can work on a capsule.	✓ Several users can work on a capsule. + Adoption of a git-inspired version control model (versions, branches etc.).
Modularity and Extensibility	✗ Open source but difficult to extend.	✓ Implemented as a fork of the Mirador IIIF viewer: inherently modular. + Plugin author-friendly design.
Interoperability	✗ XML file format (non-standard).	✓ Based on the IIIF standard.
Supported Formats	≈ Support for small files, but the main video is hosted on YouTube or Vimeo.	✓ Same features + An instance of Peertube for large video files. + IIIF: refer to any online-hosted media.
Perspective Fluidity	≈ Generally locked into focusing on one principal video resource.	✓ Same perspective possible + Shift towards a document-network perspective.
Annotation Modalities	≈ Wide range of annotation modalities that can be attached to various media and hold metadata.	✓ Opens the annotation modalities further: annotations can be atemporal; metadata uses Dublin Core standard; annotations can be linked to another IIIF manifest.
Data-Driven Interfaces	✗ There is no conception of data-driven interfaces.	✓ Create data-driven interfaces for the navigation of collections of IIIF manifests.