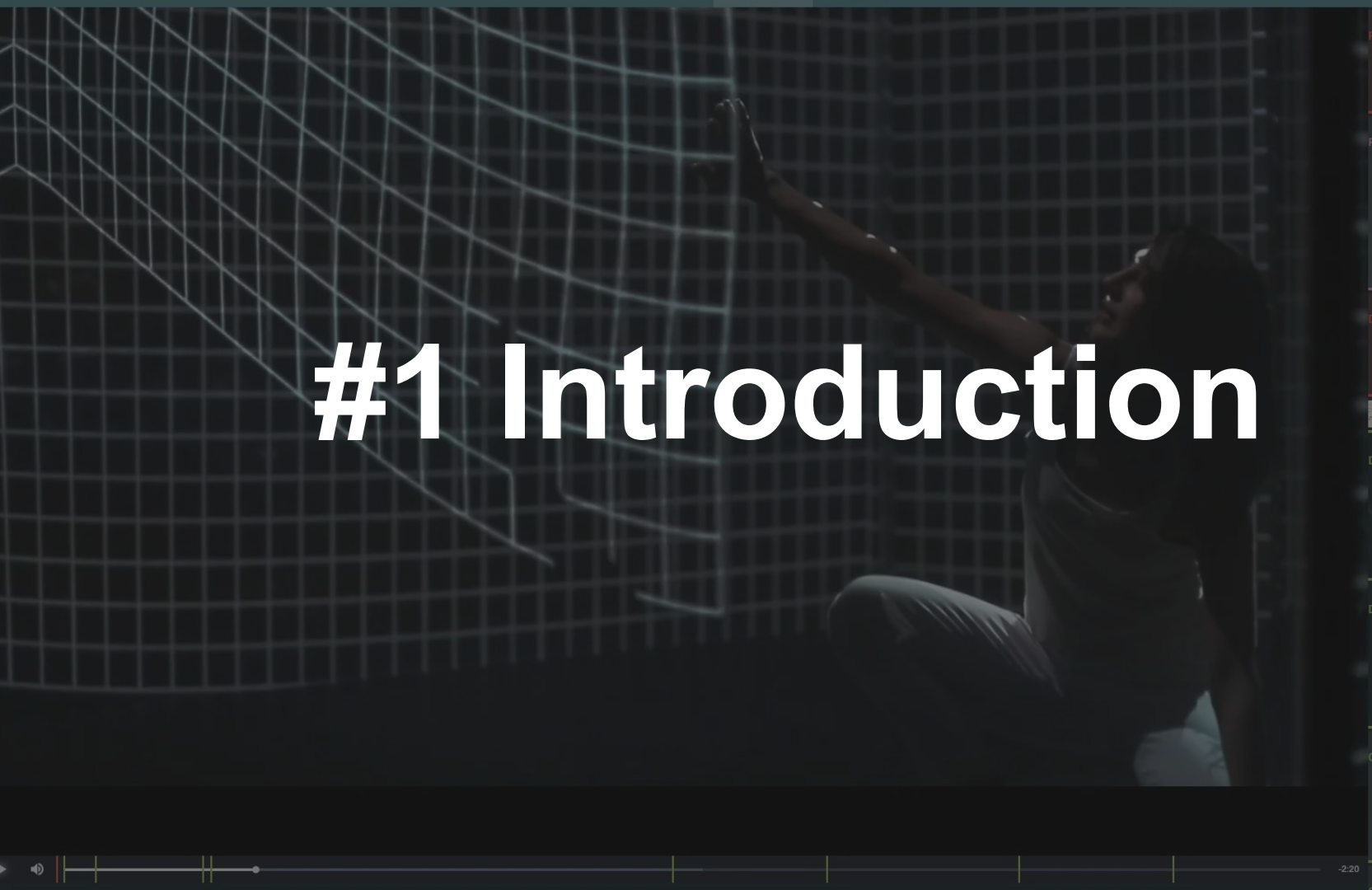
MemoRekall

www.memorekall.com - contact@memorekall.com

RE:SOURCE (10th International Conference on the Histories of Media Art, Science and Technology)
15th September 2023, 10:10

Documenting electroacoustic music for preservation:
the design of a network-driven application based on MemoRekall and IIIF

Jacob Hart, Clarisse Bardiot, Alexandre Michaan, David Rouquet, Anthony Geourjon



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Team & Partners

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Jacob **Hart**
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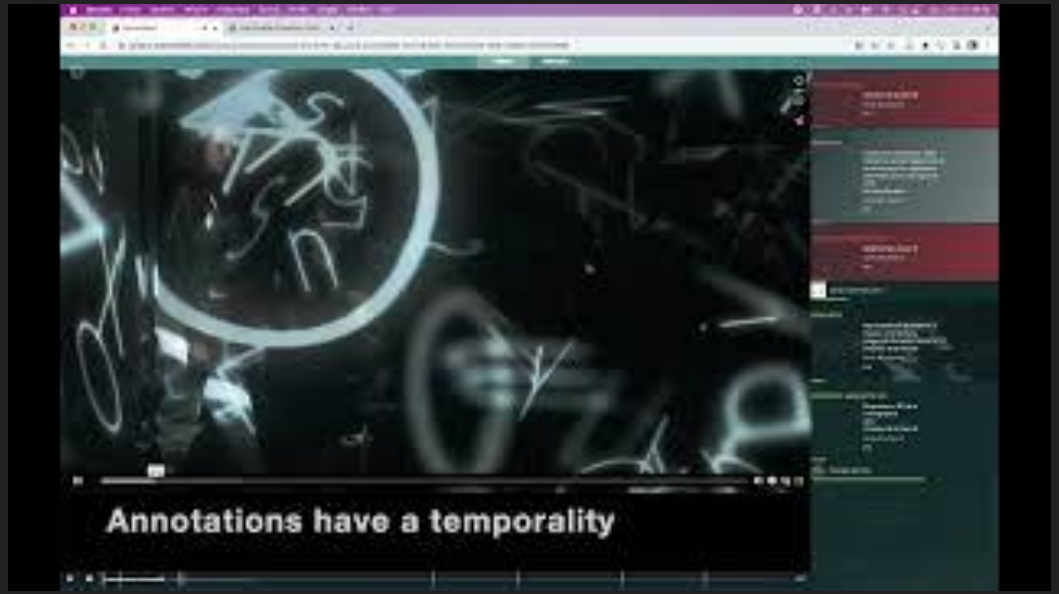
Alexandre **Michaan**
[website]
[email]

Université Rennes 2 · Maison des Sciences de l'Homme en Bretagne · Huma-Num la TGIR des humanités numériques · FEDEC · coeso connecting research and society · CCI Grand Hainaut Nord de France · Le Fresnoy · Studio national des arts contemporains · Lille Métropole · Institut International de la Marionnette · MA scène nationale Pays de Montbéliard · le phénix scène nationale Valenciennes · Subjectile · Établissement soutenu par la région Nord-Pas de Calais La culture au cœur · cnc centre national du cinéma et de l'image animée · Pictanovo · CNAC Centre National des Arts du Cirque · Rhône-Alpes Région

MemoRekall

- A **free** and **open source** web app.
- Allows for the **annotation of videos** with **multimodal documents** (videos, images, audio documents, annotation etc.).
- Create **capsules**: a new document which can be **shared** and **embedded.**



https://youtu.be/r_AHZSrCOxE

www.memorekall.com

Uses & Users

Preservation

Documentation

Publication

Pedagogy

Communication

Researchers

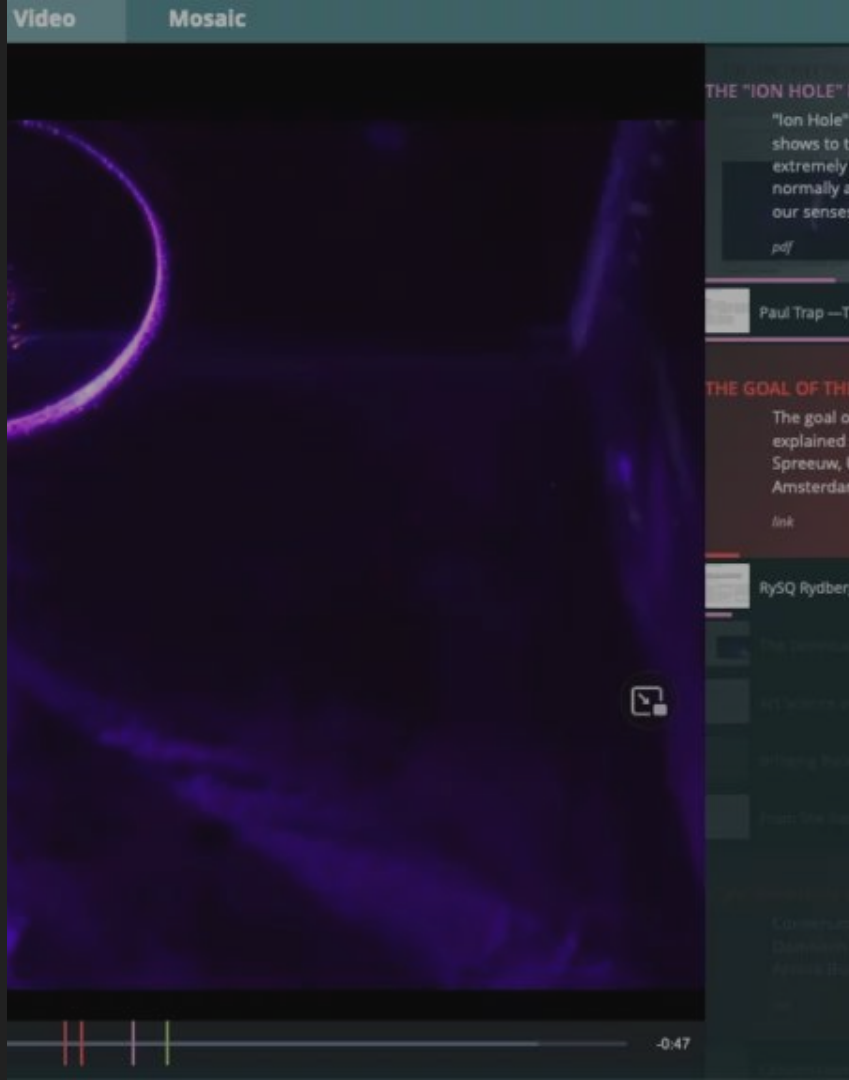
Artists

Cultural Institutions

Teachers & Students

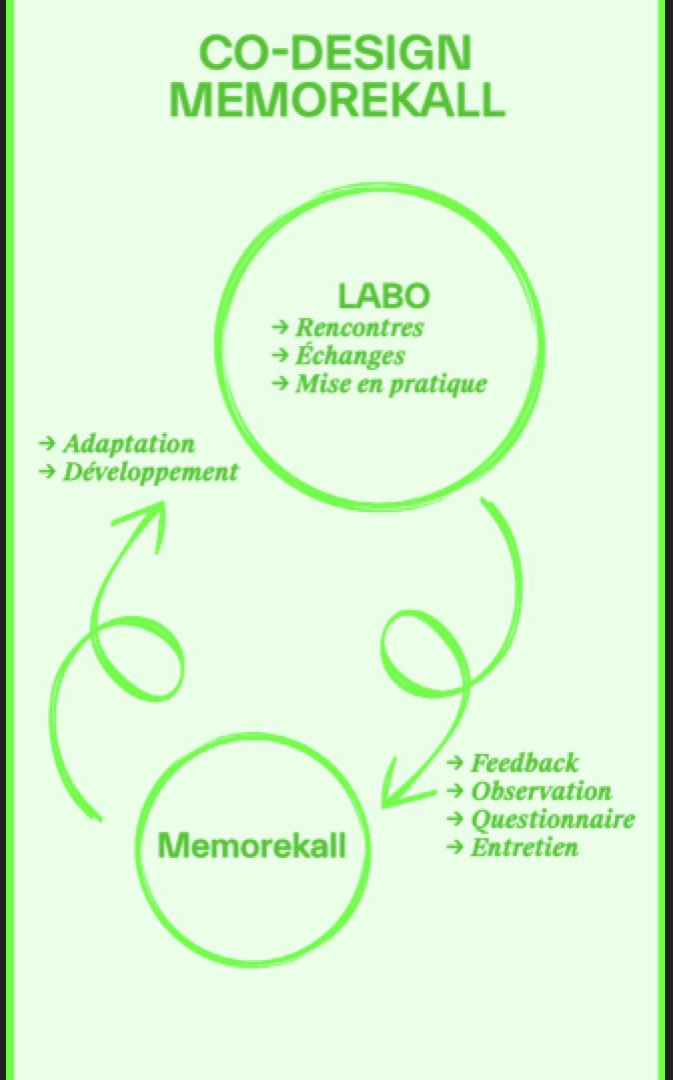
Cultural Mediators

…



Practice-led Development

- Development across various contexts: **research projects** (COSMIC, COESO, FEAT) ; **workshops** with researchers, teacher, schoolchildren, cultural professionals.
- **Co-design** development cycle:
  - **Exploration** phase.
  - **Development** phase.



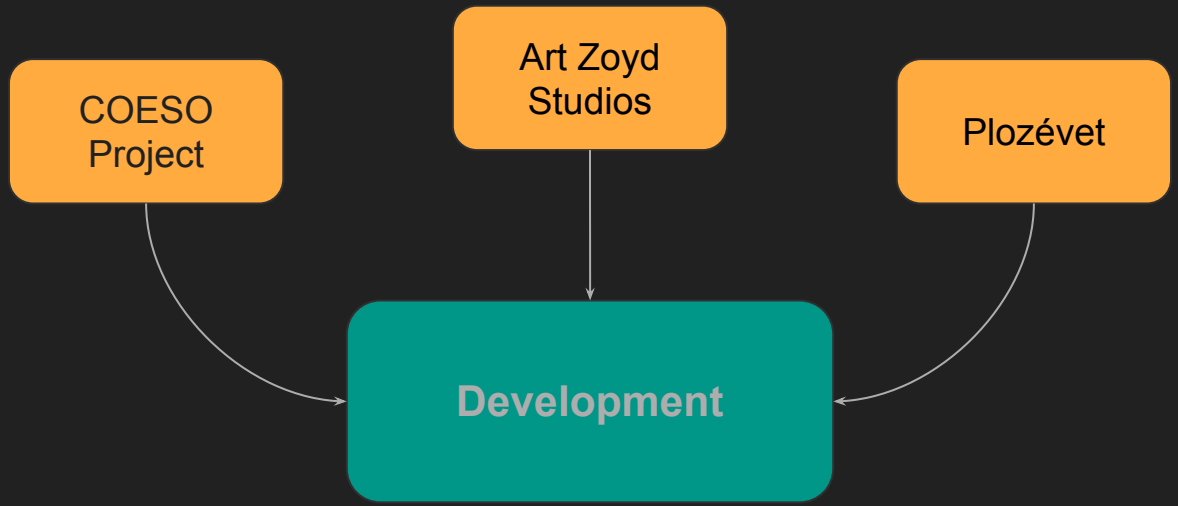
MemoRekall 2023-24

New development phase.

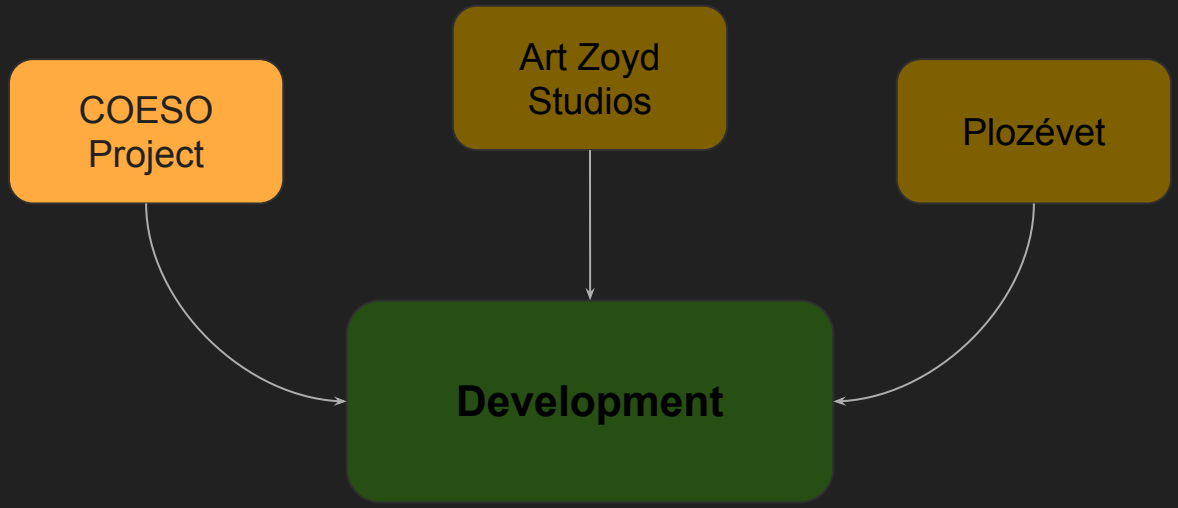
Primary objectives:

- Compatibility with **IIIF**.
- Integration of **AI** and **ML**-driven analysis tools.

Case Studies

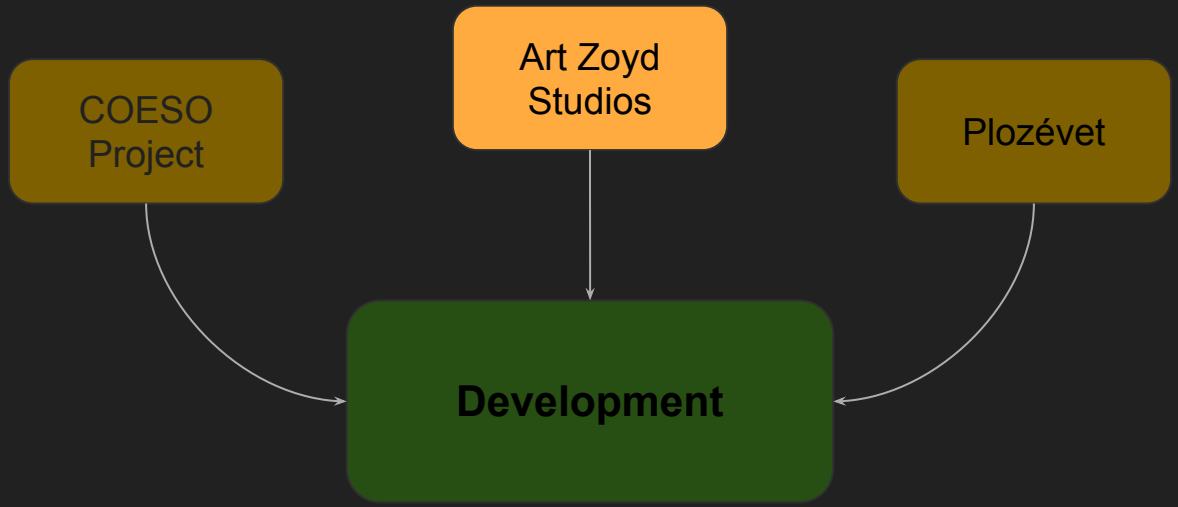


Case Studies



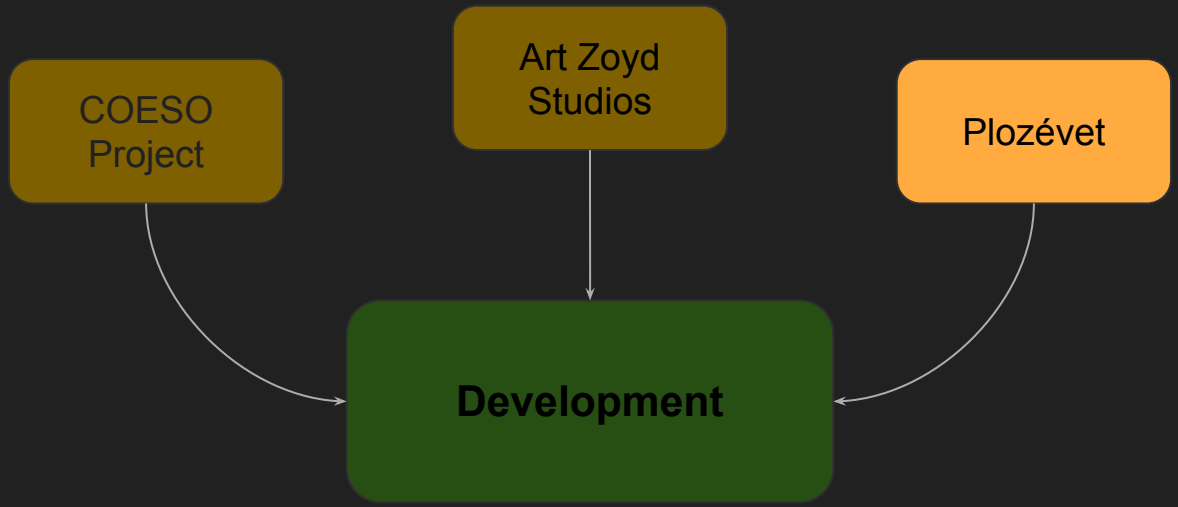
- Initial **prototype**.
- Proof of concept for **IIIF integration**.
- Available online: https://gitlab.tetras-libre.fr/iiif/coeso-deliverable/-/wikis/home

Case Studies



- **Time-based artwork** preservation and analysis.
- How to **model** a **creative process**.
- Preservation as a tool against **technical obsolescence**.

Case Studies



- Multi-institutional project, **interoperability**.
- **Large, multimodal** corpus.
- **Distant** reading, viewing, listening {**perceiving**} of multimodal documents.

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Art Zoyd Studios

- **Art Zoyd** founded in 1969 by Rocco Fernandez.
- 1971: Gérard Hourbette and Thierry Zaboïtzeff join the group.
- **Art Zoyd Studios** founded in 1999 by Gérard Hourbette and Monique Hourbette Vialadieu.
- 2018: death of Gérard Hourbette. Efforts for **preservation** begin.

ART ZOYD STU-DIOS www.artzoydstudios.com

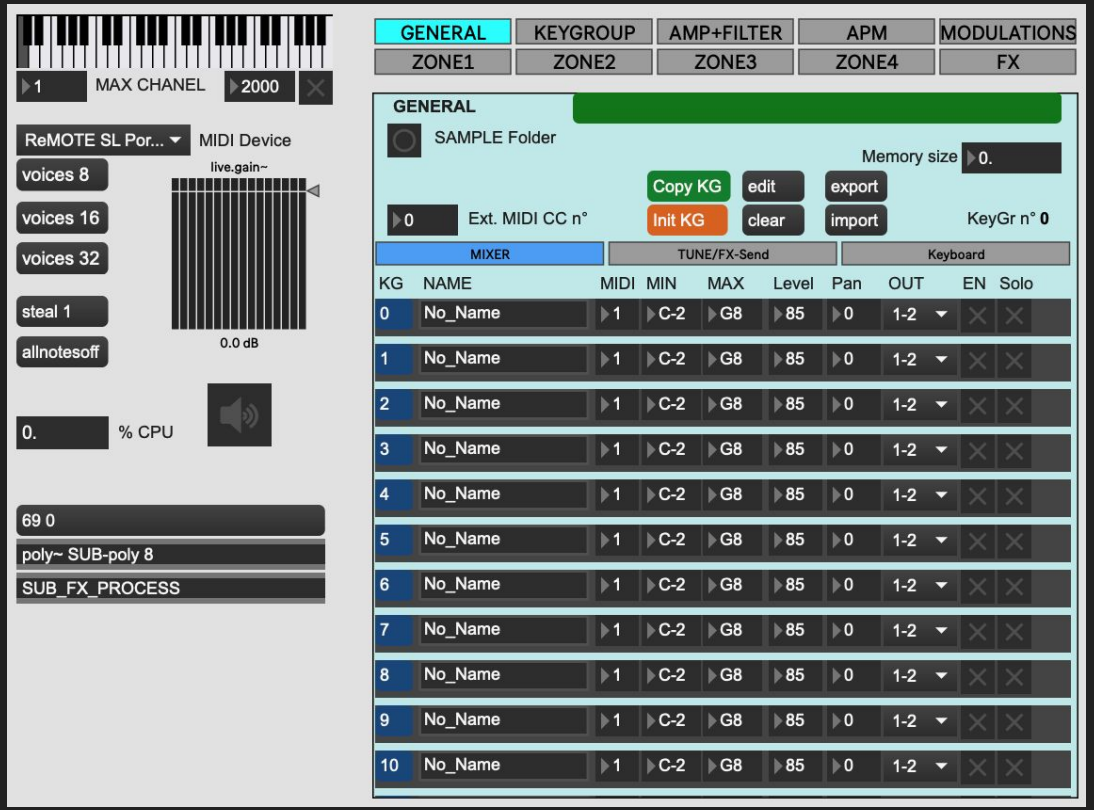
Preservation

Issues to overcome:

- **Technical obsolescence** (Akai S6000 samplers).
- Preservation of **time-based artwork**.

Emulator

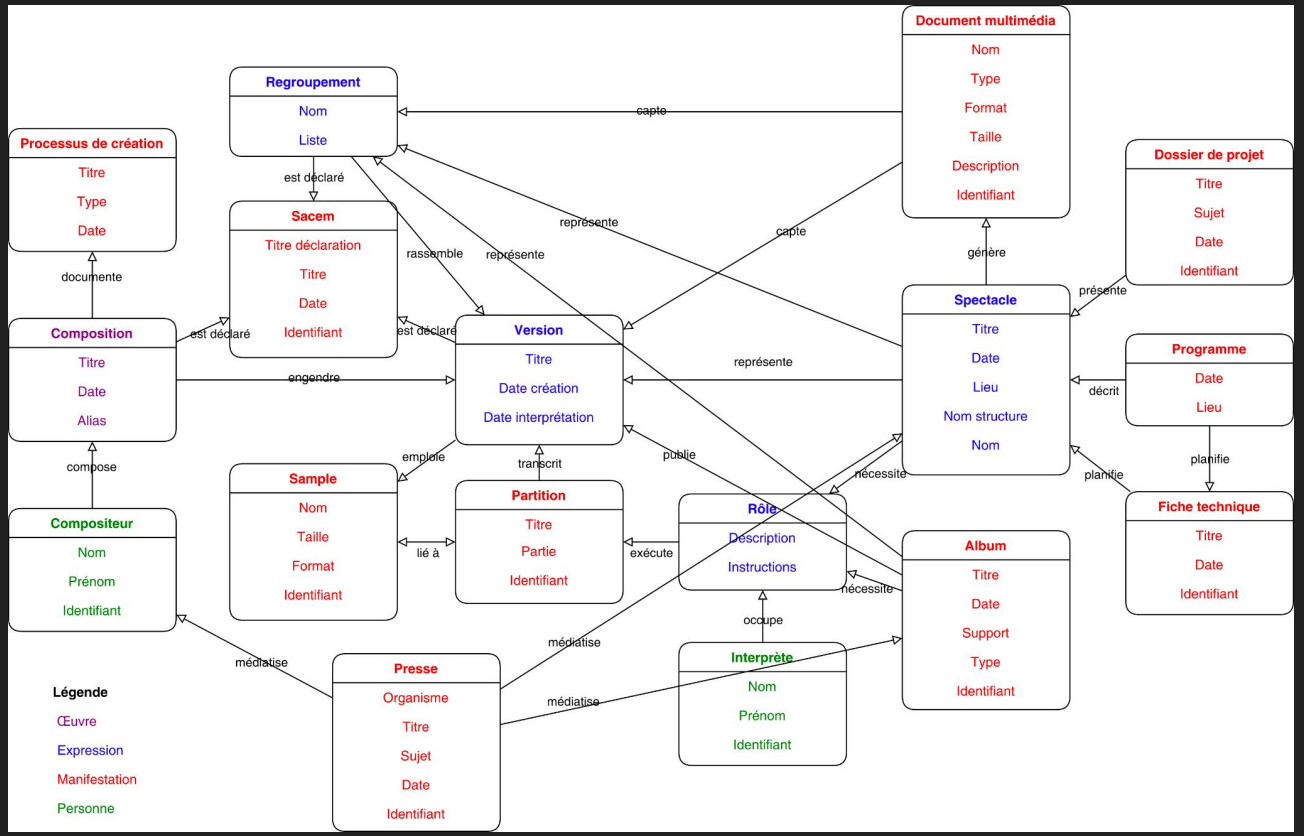
Panis, Southammavong, Venner.



Eulalie

Jacquemin, Bardiot, Michaan, Westeel, Southammavong, Koskowitz (2023)

https://journals.openedition.org/revuehn/3535



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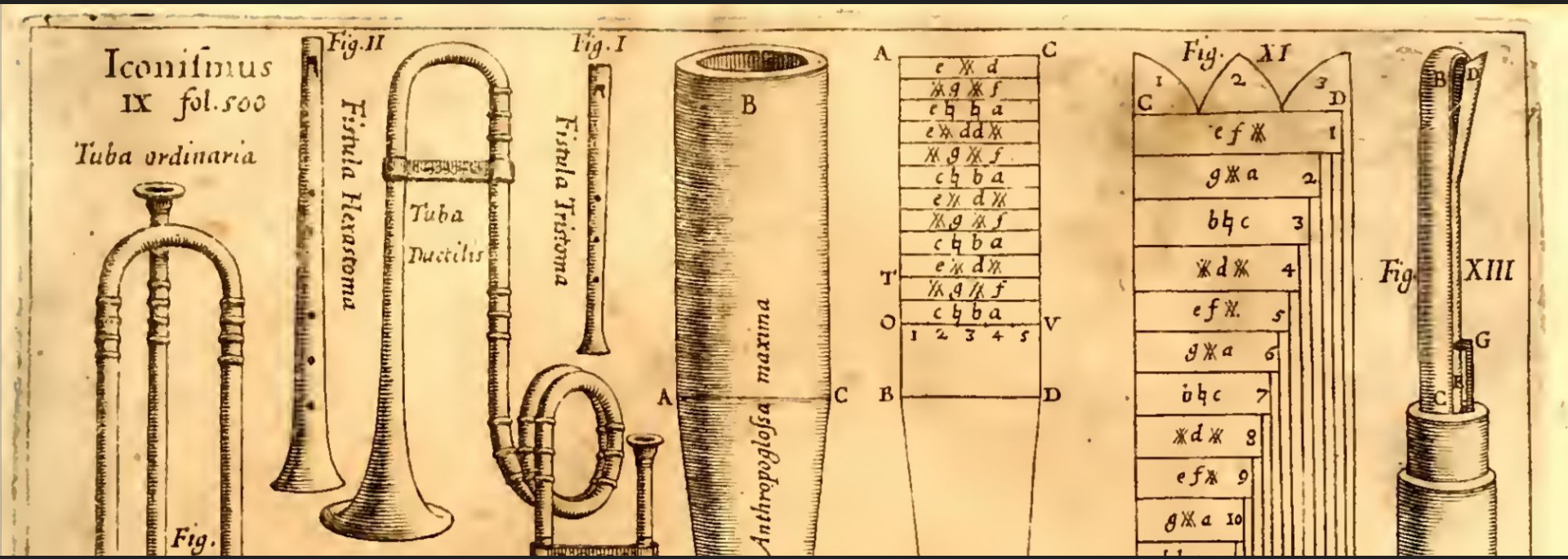
Musical Organics

Magnusson (2017)



Musical Organics

Data repositories

Traditional classifications

User contributions (folksonomies)

Machine analysis

Searches, queries, probes

Search API

Plugins

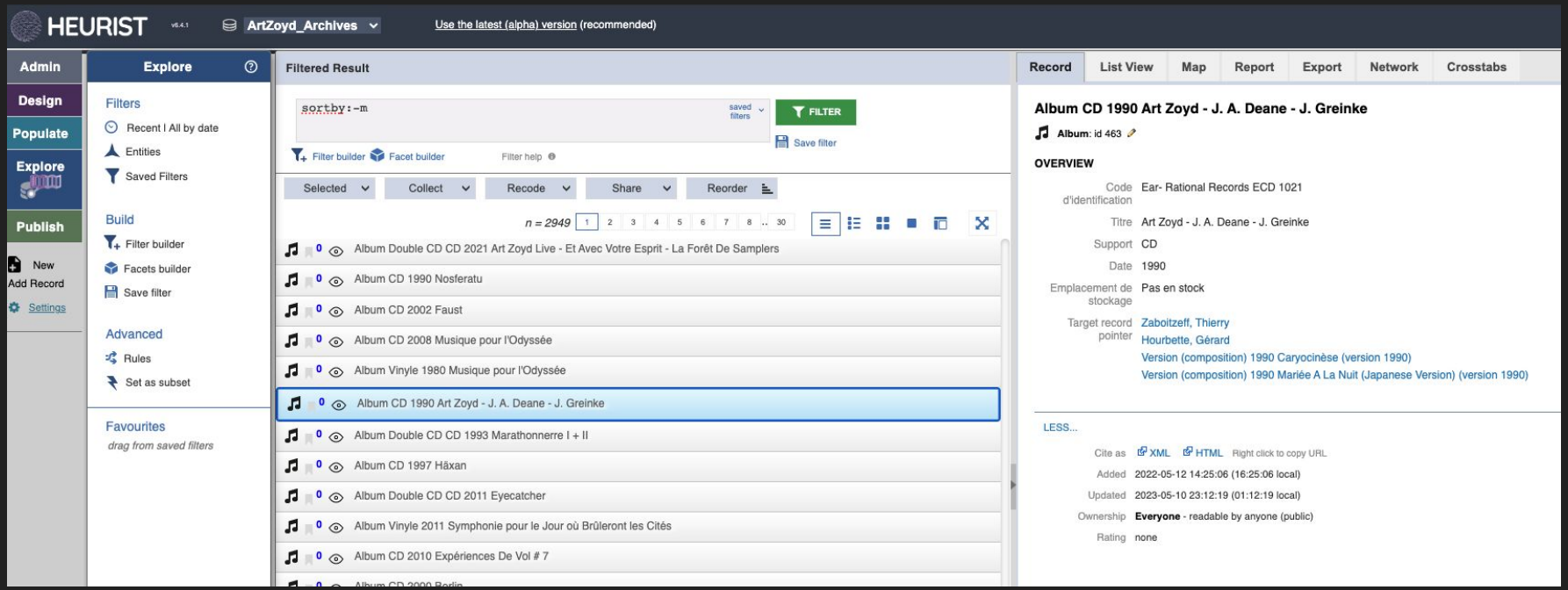
Interoperable data serving

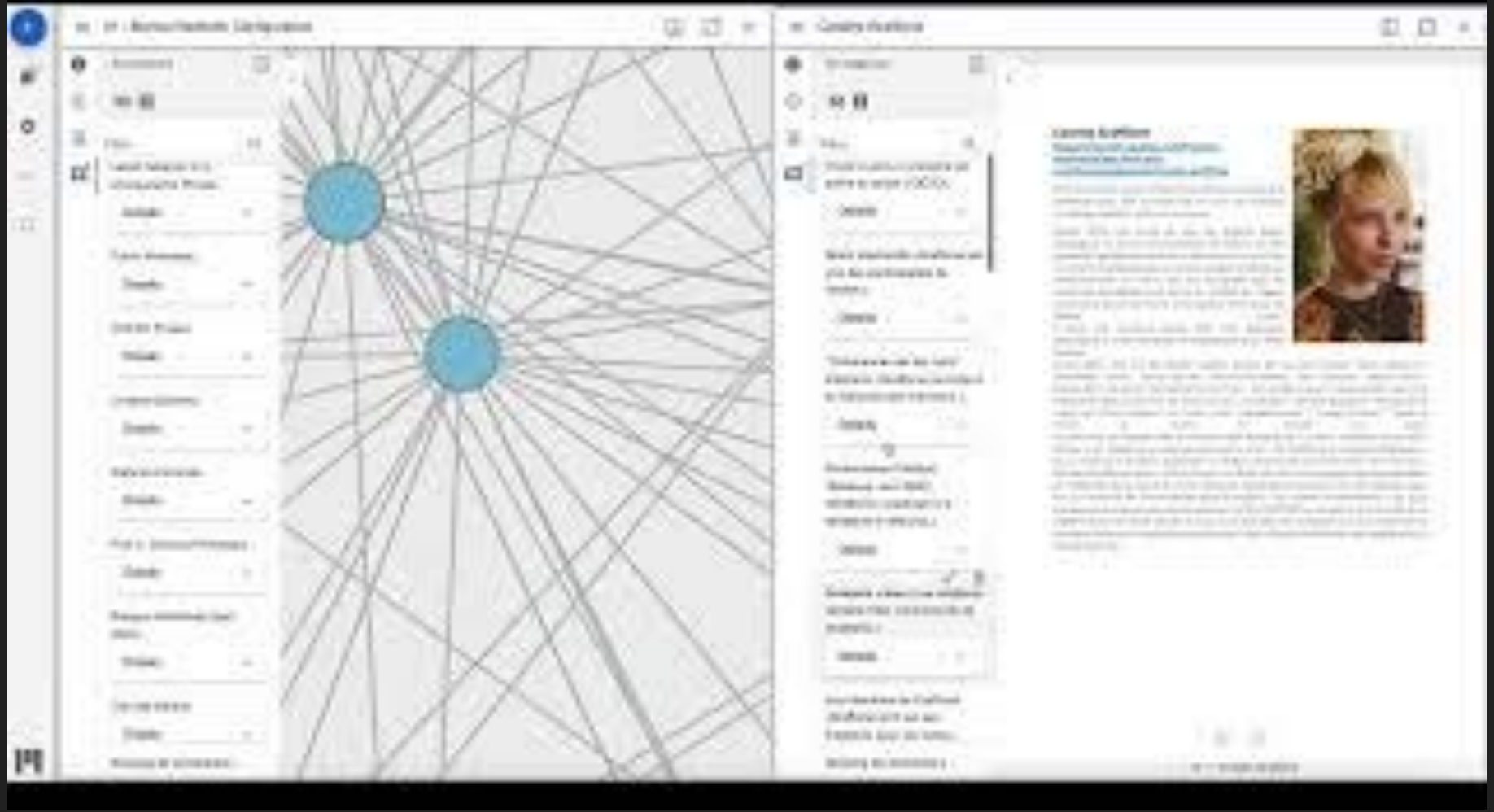
Display engines

Plugins

Engagement creates knowledge

Data


HEURIST
ArtZoyd_Archives
Use the latest (alpha) version (recommended)
Admin
Design
Populate
Explore
Publish
New
Add Record
Settings
Explore
Filters
Recent I All by date
Entities
Saved Filters
Build
Filter builder
Facets builder
Save filter
Advanced
Rules
Set as subset
Favourites
drag from saved filters
Filtered Result
sortby:-m
saved filters
FILTER
Save filter
Filter builder
Facet builder
Filter help
Selected
Collect
Recode
Share
Reorder
n = 2949
Album Double CD CD 2021 Art Zoyd Live - Et Avec Votre Esprit - La Forêt De Samplers
Album CD 1990 Nosferatu
Album CD 2002 Faust
Album CD 2008 Musique pour l'Odyssée
Album Vinyle 1980 Musique pour l'Odyssée
Album CD 1990 Art Zoyd - J. A. Deane - J. Greinke
Album Double CD CD 1993 Marathonnerre I + II
Album CD 1997 Häxan
Album Double CD CD 2011 Eyecatcher
Album Vinyle 2011 Symphonie pour le Jour où Brûleront les Cités
Album CD 2010 Expériences De Vol # 7
Record
List View
Map
Report
Export
Network
Crosstabs
Album CD 1990 Art Zoyd - J. A. Deane - J. Greinke
Album: id 463
OVERVIEW
Code d'identification Ear- Rational Records ECD 1021
Titre Art Zoyd - J. A. Deane - J. Greinke
Support CD
Date 1990
Emplacement de stockage Pas en stock
Target record pointer Zaboitzeff, Thierry
Hourbette, Gérard
Version (composition) 1990 Caryocinèse (version 1990)
Version (composition) 1990 Mariée A La Nuit (Japanese Version) (version 1990)
LESS...
Cite as XML HTML Right click to copy URL
Added 2022-05-12 14:25:06 (16:25:06 local)
Updated 2023-05-10 23:12:19 (01:12:19 local)
Ownership Everyone - readable by anyone (public)
Rating none



https://gitlab.tetras-libre.fr/iiif/POC-mirador

https://www.youtube.com/watch?v=NRfOHVoFP-8

stageapi

Simulation of the STAGE API.

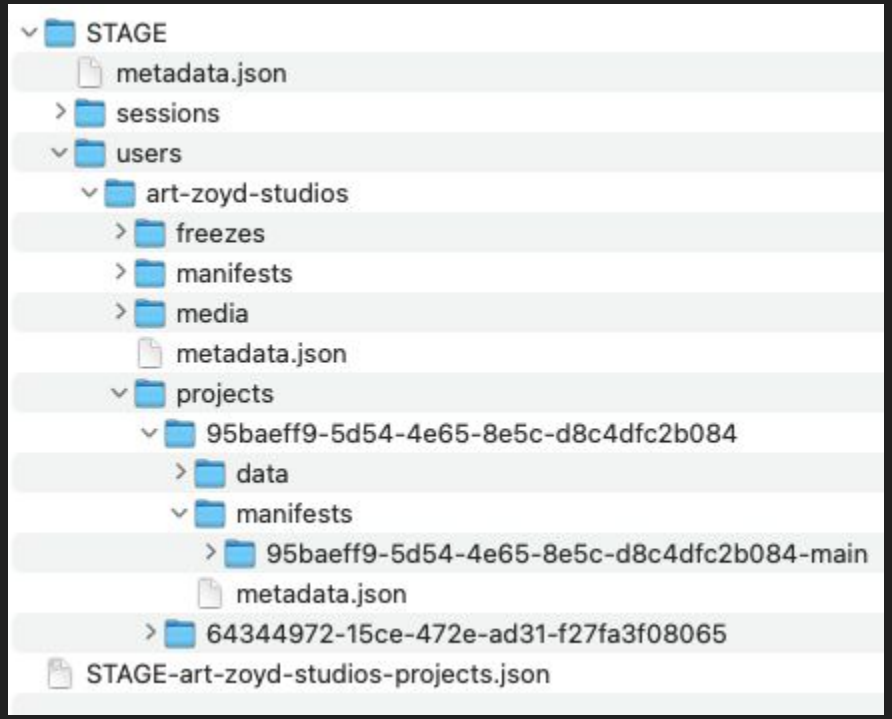
Easily create content for this fork of Mirador. Mirador is a widely-used IIIF viwer. The fork allows you to view video and audio resources in Mirador. This is great, but IIIF manifests and the Presentation API 3 can be a headache to handle. This makes everything easier. The actual manifests are handled by Mike Bennet's iiif-prezi3. This wraps a system around them that interfaces with it nicely, and allows for things like different versions of manifests etc.

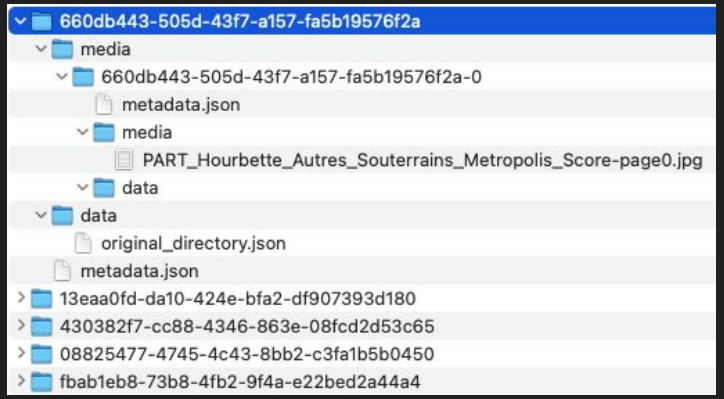
Basic usage

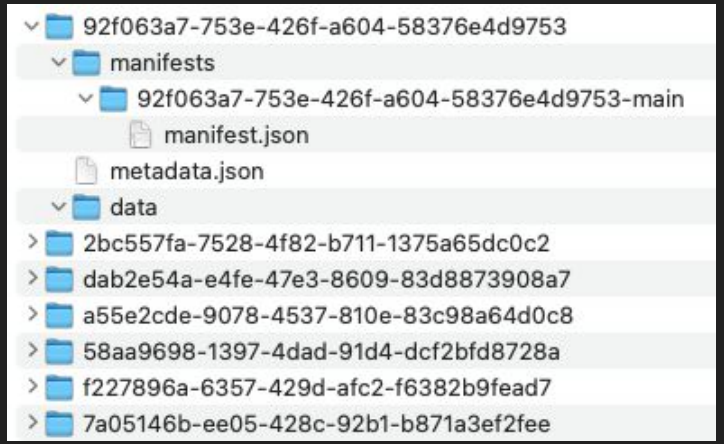
```
import stageapi as stage

# Create an instance of the STAGE API:
instance = stage.StageAPI()

# Create a user:
user = instance.create_user(user_id = "jdchart")

# Start having fun! Create a IIIF manifest from a local or online file (image, audio, video, pdf):
imageManifest = user.create_manifest_from_media(
    user.create_media(file = "my_media_file.jpg")
)

# Create a project:
project = user.create_project()
project.add_manifest(imageManifest)

# View them on your server at this adresse:
print(imageManifest.get_project_id())
print(project.get_project_id())
```

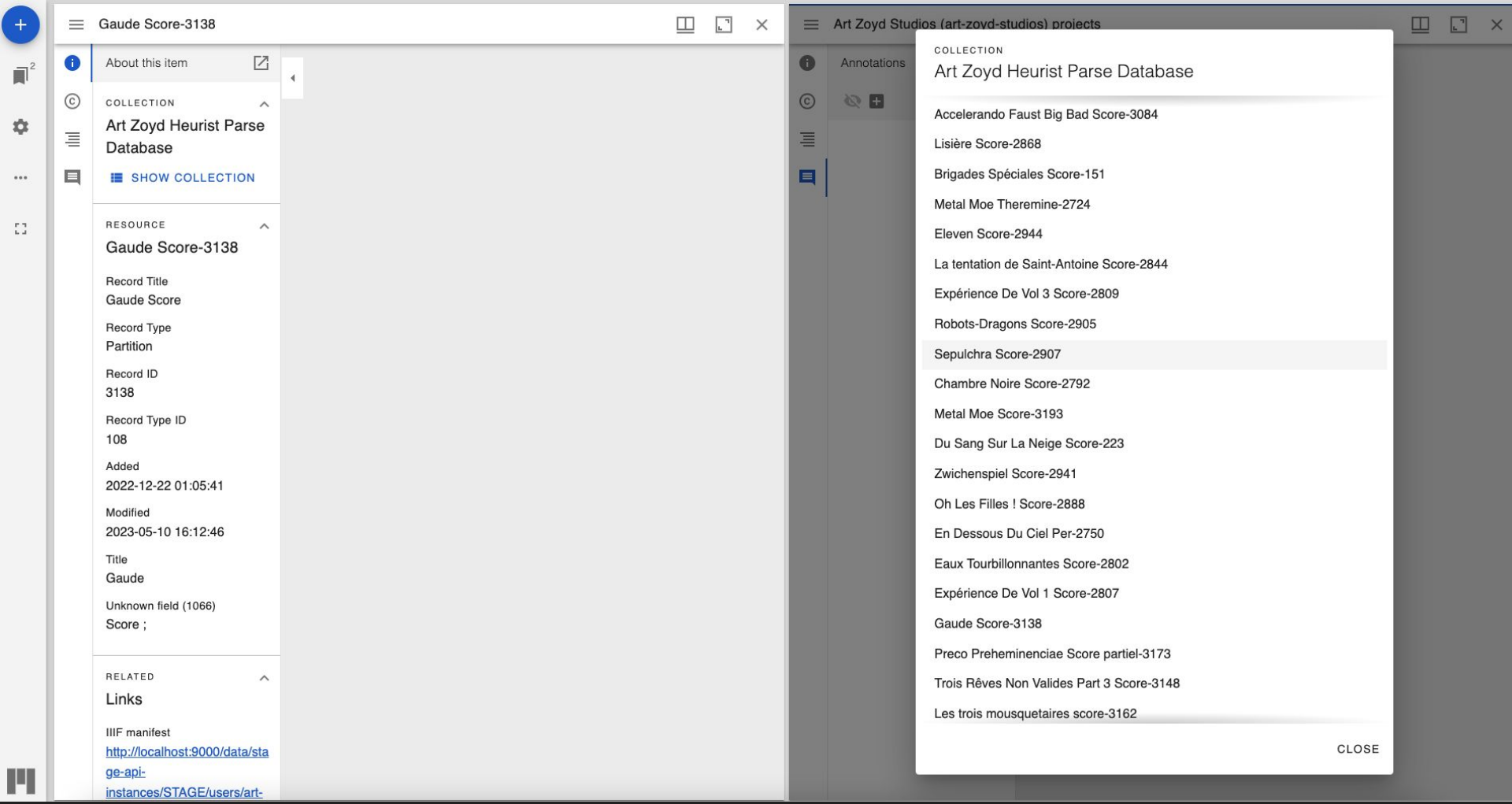
https://github.com/jdchart/stageapi

Data repository

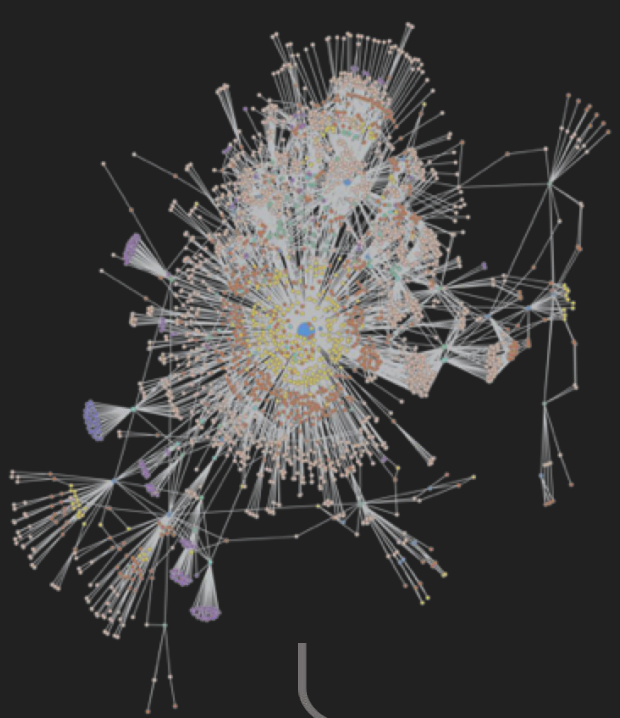


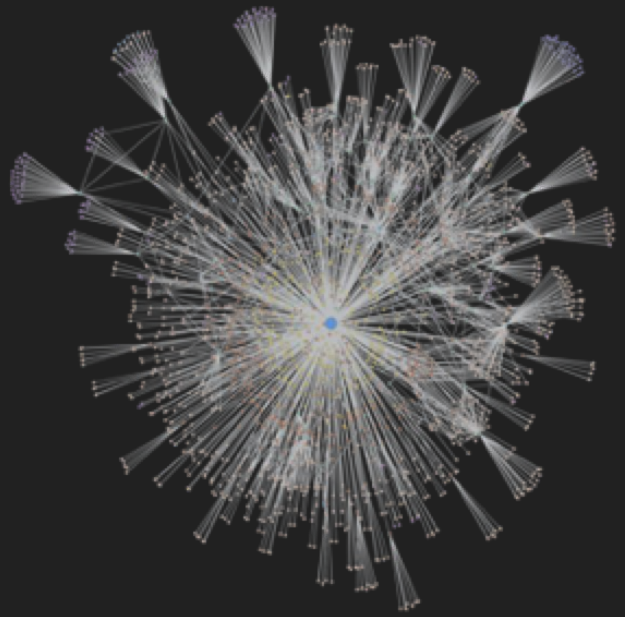


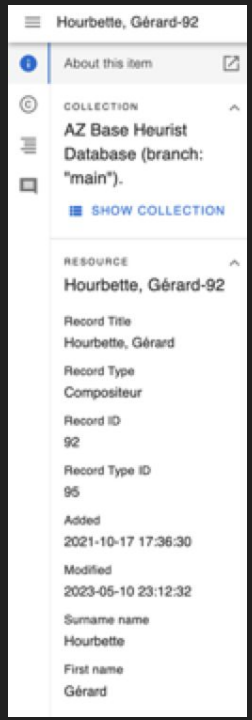



Gaude Score-3138
About this item
COLLECTION
Art Zoyd Heurist Parse Database
SHOW COLLECTION
RESOURCE
Gaude Score-3138
Record Title
Gaude Score
Record Type
Partition
Record ID
3138
Record Type ID
108
Added
2022-12-22 01:05:41
Modified
2023-05-10 16:12:46
Title
Gaude
Unknown field (1066)
Score ;
RELATED
Links
IIIF manifest
http://localhost:9000/data/stage-api-instances/STAGE/users/art-
Art Zoyd Studios (art-zovd-studios) projects
Annotations
COLLECTION
Art Zoyd Heurist Parse Database
Accelerando Faust Big Bad Score-3084
Lisière Score-2868
Brigades Spéciales Score-151
Metal Moe Theremine-2724
Eleven Score-2944
La tentation de Saint-Antoine Score-2844
Expérience De Vol 3 Score-2809
Robots-Dragons Score-2905
Sepulchra Score-2907
Chambre Noire Score-2792
Metal Moe Score-3193
Du Sang Sur La Neige Score-223
Zwichenspiel Score-2941
Oh Les Filles ! Score-2888
En Dessous Du Ciel Per-2750
Eaux Tourbillonnantes Score-2802
Expérience De Vol 1 Score-2807
Gaude Score-3138
Preco Preheminenciae Score partiel-3173
Trois Rêves Non Valides Part 3 Score-3148
Les trois mousquetaires score-3162
CLOSE

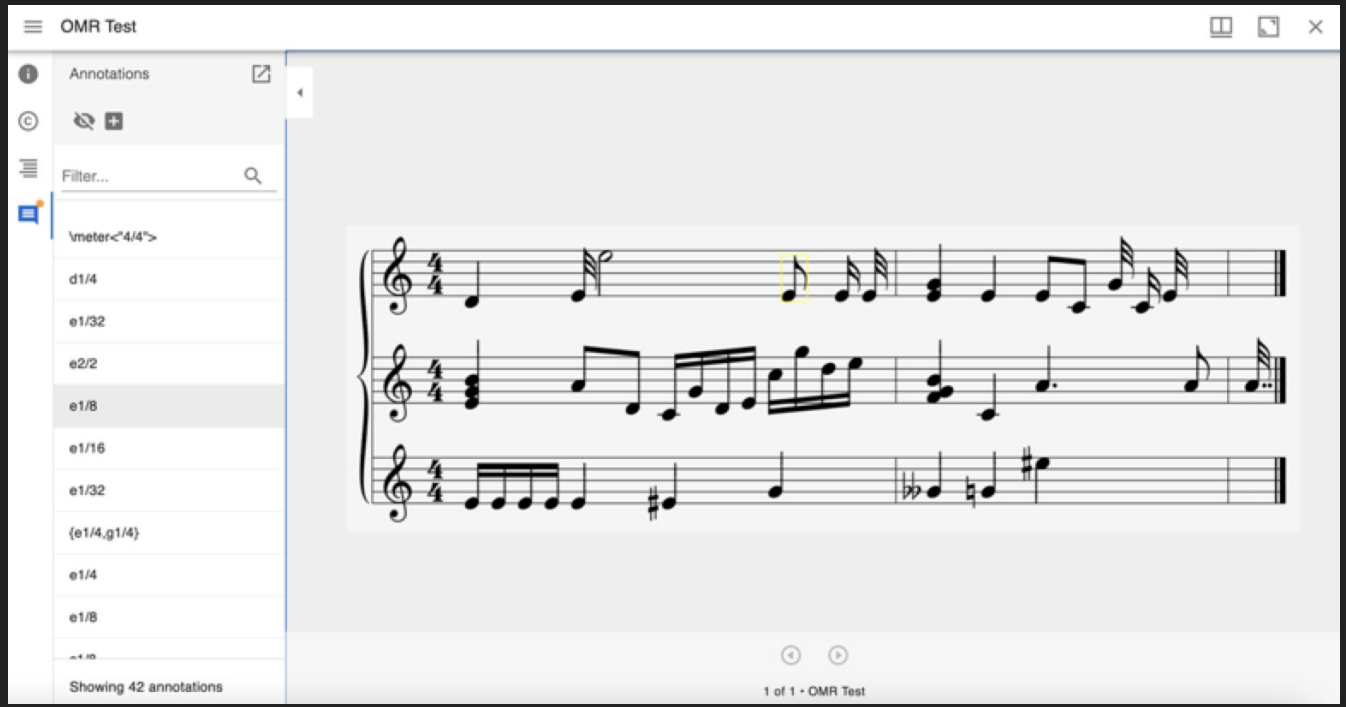
Heurist to network





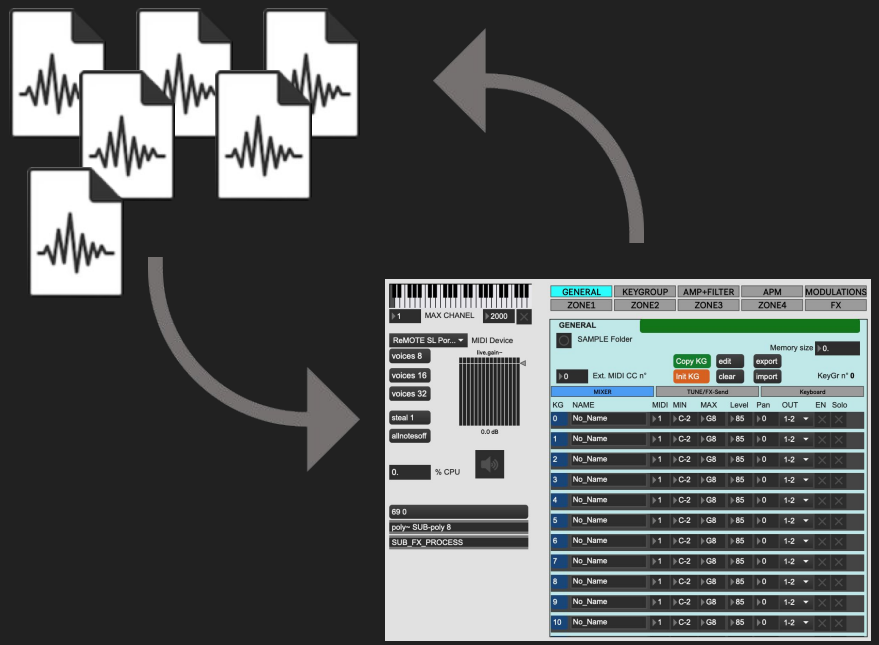


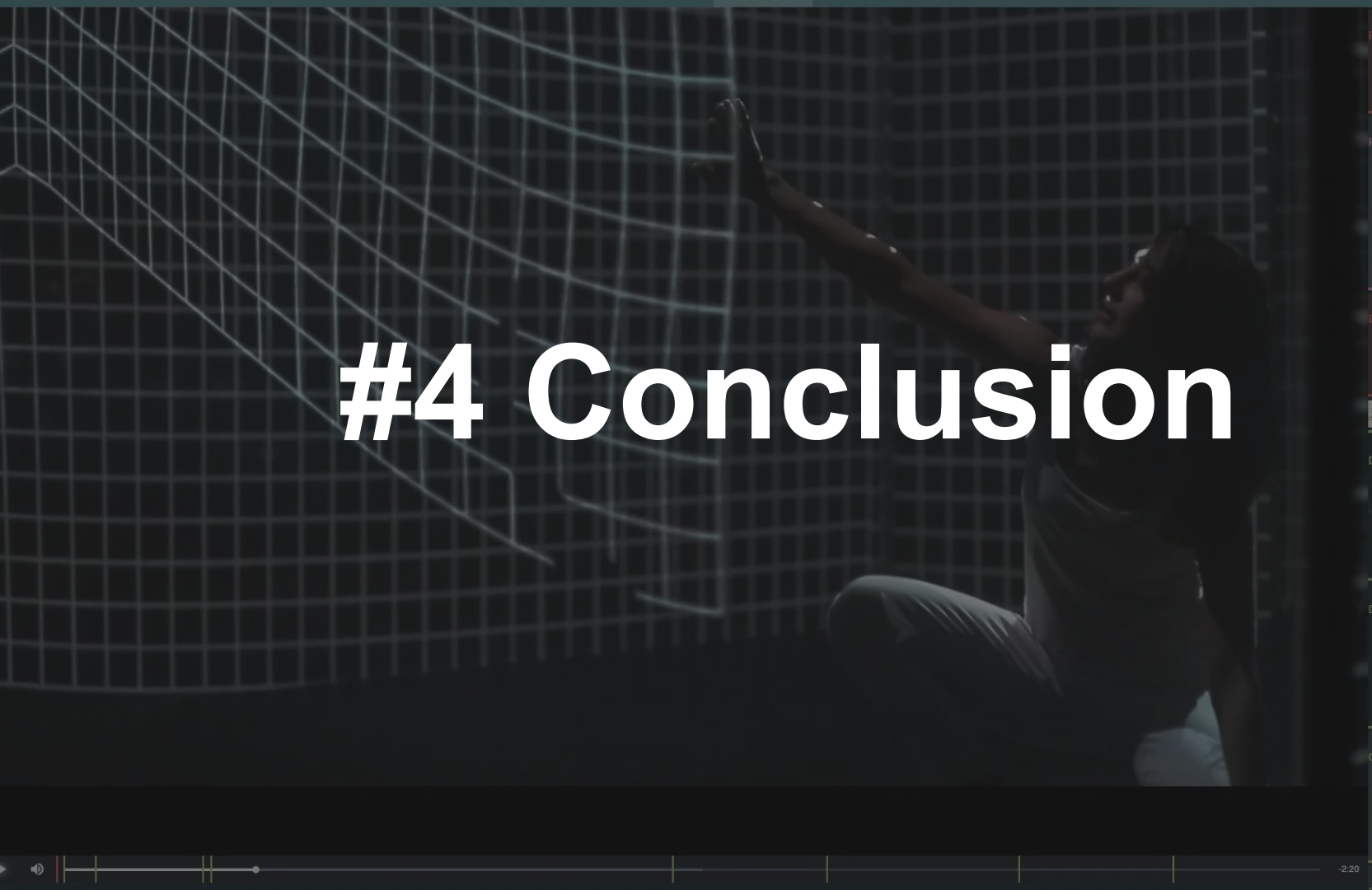
Score classification + OMR



https://github.com/apacha/MusicScoreClassifier
https://github.com/AbdallahHemdan/Orchestra

Regression


MAX CHANEL
2000
ReMOTE SL Por...
MIDI Device
voices 8
voices 16
voices 32
steal 1
allnotesoff
0.0 dB
% CPU
69 0
poly~ SUB-poly 8
SUB_FX_PROCESS
GENERAL
KEYGROUP
AMP+FILTER
APM
MODULATIONS
ZONE1
ZONE2
ZONE3
ZONE4
FX
SAMPLE Folder
Memory size
Copy KG
edit
export
Init KG
clear
import
Ext. MIDI CC n°
KeyGr n° 0
MIXER
TUNE/FX Send
Keyboard
KG NAME MIDI MIN MAX Level Pan OUT EN Solo
No_Name



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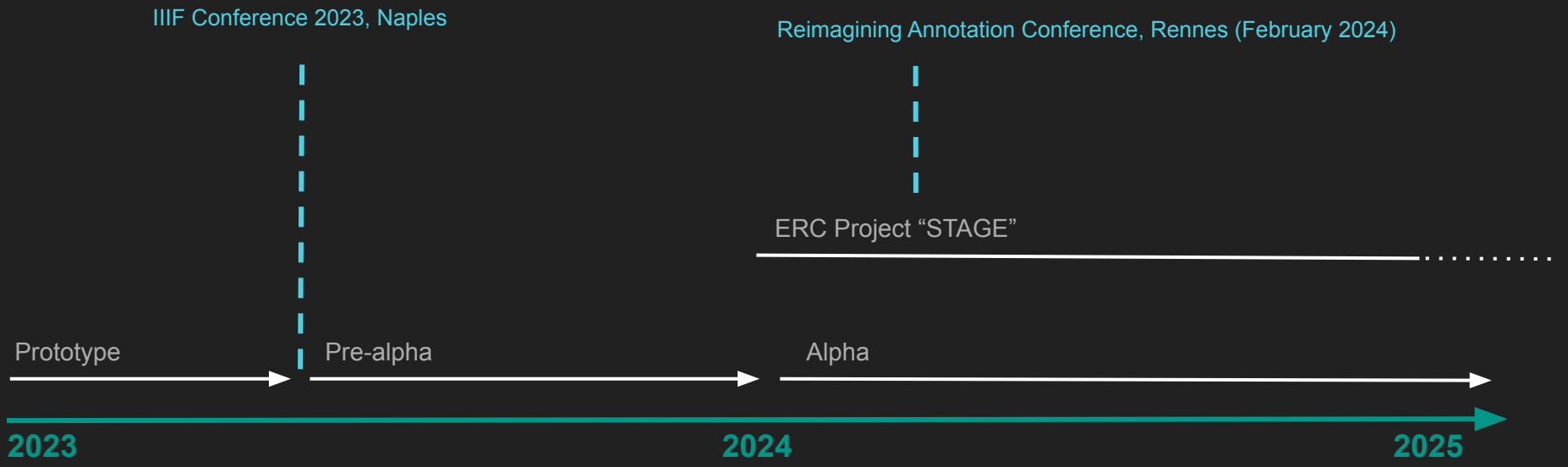
Development timeline



Reimagining Annotation for Multimodal Cultural Heritage Conference

https://reimagining-amch.sciencesconf.org/

7th– 9th February 2024. Rennes (France)

Useful Links

www.memorekall.com

www.memorekall.com/en/memorekall-iiif-prototype

www.coeso.tetras-libre.fr

www.iiif.tetras-libre.fr

www.tetras-libre.fr

gitlab.tetras-libre.fr/iiif