

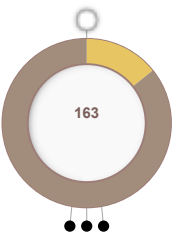
process

02/12/2025

short version

workflow diagram: http://memoria-dev.gamsau.archi.fr/is/enter.php?show=process&_op=set&id=163

process as activities' proportion ring: <http://memoria-dev.gamsau.archi.fr/is/analyse.php?viz=1&v=163>



title >	comparative visualisation of sound track annotations - exploratory visualisation work (soundscape)
remarks >	Pre-configuration of a comparative visual analysis tool of soundtracks annotated in the 'Soundscape typological analysis' prototype, where segments of a soundtrack are associated with different types of sound sources. The sound sources are identified and organised according to a sound typology developed previously. They have been grouped into two major groups: nature sounds and anthropogenic sounds. The objective is to enable a visual comparison of the 'perception' of the acoustic ambience of the sound environment.
date of the beginning >	2024-10-23 (research design)
date of the end >	? (discussion/consultation)
last update >	2025-12-02 16:24:34
inputs >	3 inputs [201] - Preliminary classification of sounds related to the acoustic environment of small rural chapels associated to a colour chart. (PACA, France), SESAMES [202] - Soundscape annotation tool - preparatory material and implementation [284] - Soundscape database (Sesames)
sources >	-
outputs >	1 output  [266] - exploratory comparative visual formalisms (Soundscape typological analysis)
outputs modified by the process >	-
compositions >	-
publications >	-
expertise >	-
preceding processes >	-
infrastructure >	1 infrastructure [16] - Soundscape annotation tool - Soundscape annotation platform - perception-oriented tagging of a soundscape's natural and anthropogenic components
instruments >	1 instrument [103] - computer > DELL Precision 7740 (Astrolabe)
software >	3 software [19] - presentation software - Microsoft PowerPoint [167] - Web browser - Firefox [176] - data management - phpMyAdmin
individuals (creators) >	2 individuals Blaise Jean-Yves > UPR 2002 MAP Dudek Iwona > UPR 2002 MAP
organisations (creators) >	-

project(s) >

1 project

[18] Soundscape - Soundscape typological analysis
2024 - ?
URL: https://anr-sesames.map.cnrs.fr/sound_annotation_site/index.php

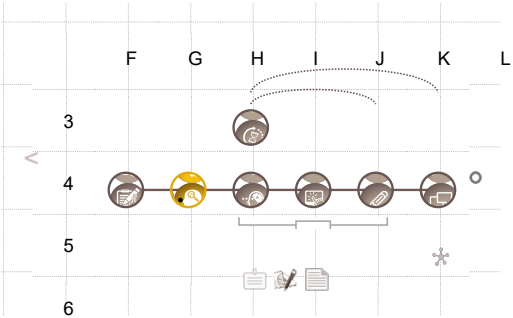
OS(s) >

1 operating system

[38] Windows 10, Microsoft Windows

Memoria workflow diagram:

163 - comparative visualisation of sound track annotations - exploratory visualisation work (soundscape)



Memoria workflow diagram:

The list below provides only basic information about each activity (i.e. activity type, descriptors and their values, if provided, individuals and/or organisations engaged in the activity and comments on the activity's nature). More information can be obtained by selecting the option PDF with all metadata.

F4 	research design The aim is to use the data collected in the soundscapes_sesames database (typological annotation of recorded soundtracks) with the goal of enabling a visual comparison of a 'perception' of the acoustic environment. The different types of visualisation are intended to allow synthetic representations of variations in the types of sounds perceived and their intensity/essentiality in a soundtrack, as well as to enable comparisons of variations in the annotation of the same soundtrack by different people (for example, differences in the interpretation of certain sounds by different individuals). The user annotated soundtracks will be compared with against control samples obtained by expert analysis and annotation potentially including automated sound analysis. The approach will be based on a combination of qualitative and quantitative methods, techniques and procedures - that appears to best suit the task at hand. The research aims on production of new knowledge, without prior consideration that it will result in any particular practical application or use. The objective is to verify if and how a visual comparison of soundscape annotations can be obtained (necessary conditions and limitations) and helpful in their understanding both for scientist as well as large public including hearing-impaired people. research methods : experimental methods research type : fundamental research research approach : pragmatic approach corpus extent : multiple case study research paradigms : exploratory study individuals: Jean-Yves Blaise (UPR 2002 MAP), Iwona Dudek (UPR 2002 MAP) sources: - inputs: -; publications: -; compositions: - expertise: -
G4 	analysis and interpretation Analysis and interpretation of data and information gathered in the soundscapes_sesames database, as well as classification of sounds applied in the Soundscape annotation tool. input type : quantitative data, qualitative data, information individuals: Iwona Dudek (UPR 2002 MAP) sources: - inputs (IDs): 201,202,284; publications: -; compositions: - expertise: -
H4 	visual encoding Alternative visualisations based on existing visual formalisms (polemetric tables, bar charts/histograms, pie charts, concentric bar charts, time wheel, radar diagram) and trials of other solutions. redundant encoding : non-redundant data types : temporal, nominal (categorical), quantitative graphic variables : orientation, shape, size, position, colour value (tint/tone/shade), hue (colour) individuals: Iwona Dudek (UPR 2002 MAP) sources: - inputs: -; publications: -; compositions: - expertise: -
H3 	temporal encoding encoding of time data dynamic visual variables : synchronization, duration individuals: Iwona Dudek (UPR 2002 MAP) sources: - inputs: -; publications: -; compositions: - expertise: -
I4 	interaction design Project of interaction modalities for selected visualisations. design phases : conception interaction techniques : linking, details on demand, filtering individuals: Iwona Dudek (UPR 2002 MAP) sources: - inputs: -; publications: -; compositions: - expertise: -
J4 	drawing hand-drawn and digital sketches output's nature : digital, nondigital chromatic scale : coloured individuals: Iwona Dudek (UPR 2002 MAP) sources: - inputs: -; publications: -; compositions: - expertise: -

K4



discussion/consultation

Analysis of proposed visualisations – specific, shortcomings (e.g. knowledge communication, reasoning and hypothesis generation efficiency assessment, problem accuracy, readability assessment).

reporting mode : computer-assisted

anticipation level : spontaneous

group type : one-to-one discussion

interaction mode : face-to-face discussion

individuals: Jean-Yves Blaise (UPR 2002 MAP), Iwona Dudek (UPR 2002 MAP)

sources: -

inputs: -; publications: -; compositions: -

expertise: -

Output

266 - exploratory comparative visual formalisms (Soundscape typological analysis)