

# Polifonia

## TONALITIES' Collaborative Annotation Interface

Christophe Guillotel-Nothmann  
Marco Gurrieri



This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement GA101004746.  
*The communication reflects only the author's view and the Research Executive Agency is not responsible for any use that may be made of the information it contains.*

## Preliminary work

### A. Theoretical modeling

Tonalities makes use of theoretical models, which

1. can be associated with arbitrary selections on the score and
2. lead to critical analyses through collaborative approaches.

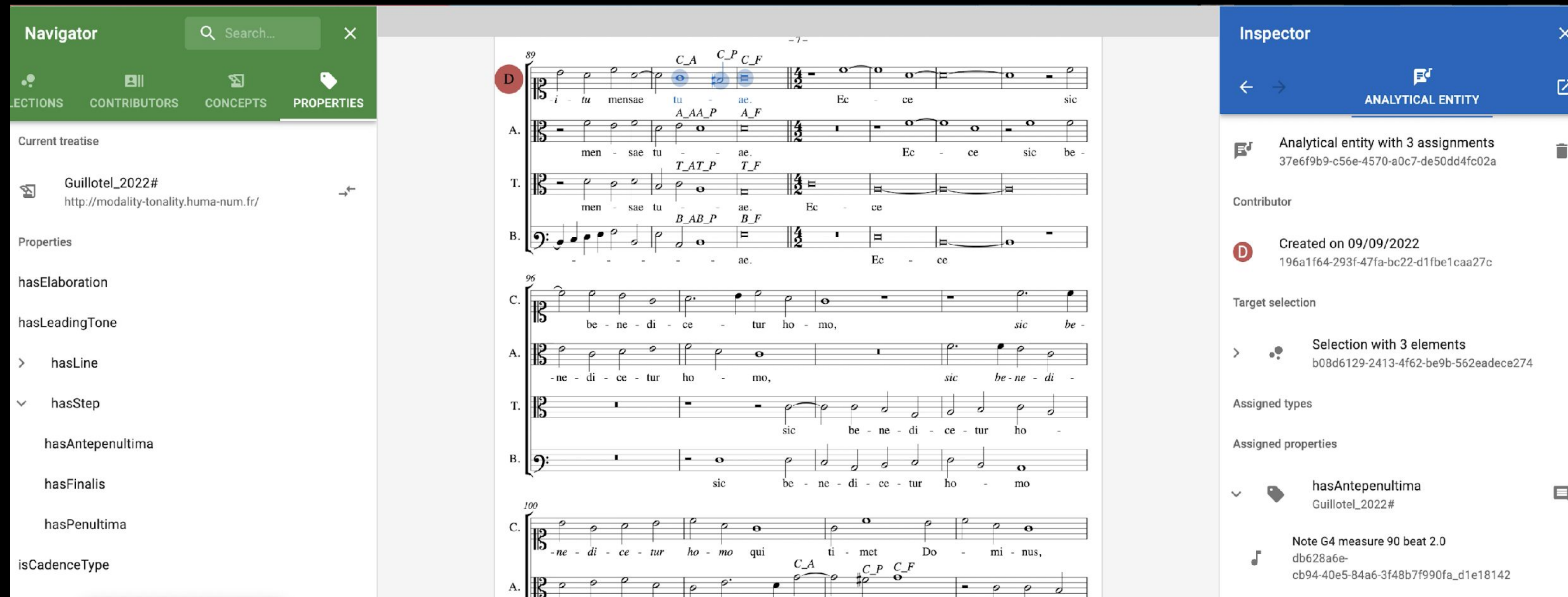
This work of modeling aims to avoid the limitation to a single "standard" and "global" theoretical perspective, and allows to grasp how theoretical thoughts evolve over time and space.

### B. Score editing

To be inserted in the annotation interface, scores must be edited following a specific protocol of parameters we fixed.

# TONALITIES' Collaborative Annotation Interface

Demo of some functions (for stakeholders)



The screenshot displays the Tonalities' Collaborative Annotation Interface. It features a central musical score with three staves (A, T, B) and a fourth staff (C) below. The score includes lyrics and annotations such as *C\_A*, *C\_P*, *C\_F*, *A\_AA\_P*, *A\_F*, *T\_AT\_P*, *T\_F*, *B\_AB\_P*, and *B\_F*. A red circle labeled 'D' highlights a specific note in the first staff. On the left, a green sidebar titled 'Navigator' contains a search bar and tabs for 'SECTIONS', 'CONTRIBUTORS', 'CONCEPTS', and 'PROPERTIES'. Below these tabs, it shows the current treatise 'Guillotet\_2022#' and a list of properties including *hasElaboration*, *hasLeadingTone*, *hasLine*, *hasStep*, *hasAntepenultima*, *hasFinalis*, *hasPenultima*, and *isCadenceType*. On the right, a blue sidebar titled 'Inspector' shows an 'ANALYTICAL ENTITY' with three assignments, a contributor 'D' created on 09/09/2022, a target selection with three elements, and assigned types and properties, including *hasAntepenultima* and a specific note annotation.

<http://data-iremum.huma-num.fr/tonalities/>

+ 2 video-guides

## TONALITIES' Collaborative Annotation Interface

What content/material of Tonalities' interface can the final user reuse? (Reviewers recommendation)

Theoretical ontologies:

<https://github.com/polifonia-project/modal-tonal-ontology>

<https://github.com/polifonia-project/modal-tonal-ontology/tree/main/documentation>

<https://github.com/polifonia-project/modal-tonal-ontology/blob/main/analysisOntology.rdf>

1. Users' analyses will be registered in the interface;

2. Users will be able to join/to get in touch with an international group of music analysts;

3. They can download the Pdf version of musical scores (soon available);

4. They can access the theoretical ontologies (on GitHub).

## Challenges and working perspectives

Medium-term working perspectives:

1. fine-grained comparison of concurrent annotations made on a score,
2. implementation of diagrams and graphs (for diachronic analyses of roots, cadence types, etc.)

Long-term working perspectives:

1. extended display of analytical symbols on scores (harmonic functions, harmonic vectors, etc.)

- Proposal for a Demo for a workshop on Music and semantic web in the framework of the *22th International Semantic Web Conference 2022* in China [submitted];
- Proposal for the RILM's *Global Digital Music Studies Conference* in New York (12-13 April 2023) [in preparation: deadline 1<sup>st</sup> of October].

**Polifonia**  
Thanks

