

Interacting with Zarlino

A critical inspection of the digital editions of his treatises

Frans Wiering, f.wiering@uu.nl
Venice, 30 November 2017

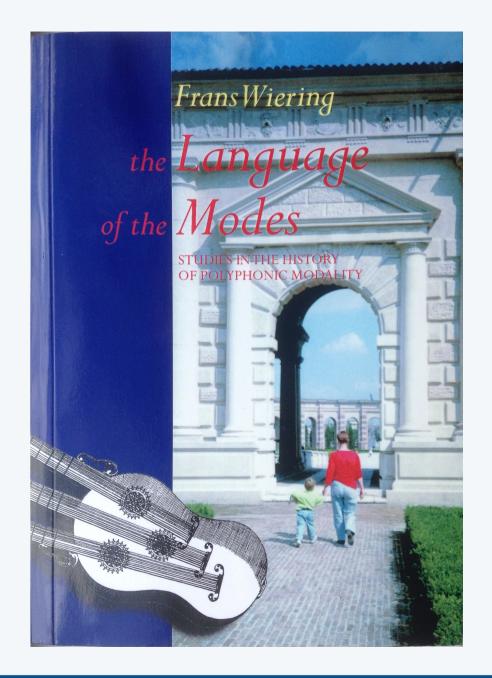
Universiteit Utrecht

Abstract

Nearly twenty years ago I prepared digital editions of a selection of Zarlino's writings (Istitutioni harmoniche 1558, 1589; Dimostrationi harmoniche 1589; Sopplimenti musicali 1589). They form one of the cores of the Thesaurus musicarum italicarum (http://tmiweb.science.uu.nl/) containing over 30 digitised music treatises from the 16th-18th centuries. Three years ago we migrated the entire corpus to a new publication environment, with surprisingly little effort. Even though the present environment is officially 'experimental', it provides decent though basic access functionality. In my talk I will give a short demonstration of the resource, in order to open up a dialogue about how such resources could enrich musicological research, and what additional functionality this would require.

Disclaimer

This is what I used to do 20 years ago





RISM search by Utrecht University

create melodies query matching method selection results about

Details of match

Method: Exact Pitch Result id: 778132 Score: 9.4 Pitch shift: -5





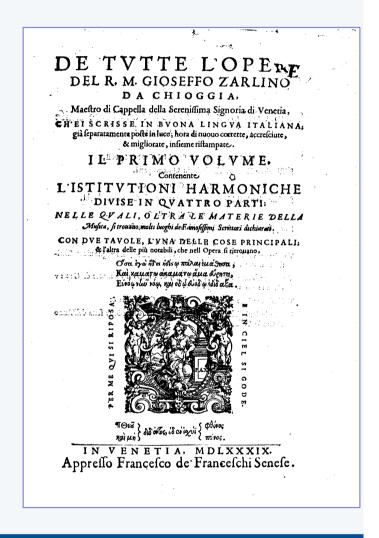




$$D(i,j) = \max \left\{ \begin{array}{l} D(i-1,j-1) + S(x_i,y_j) \\ D(i-1,j) - \gamma \\ D(i,j-1) - \gamma \end{array} \right.$$

My perspective

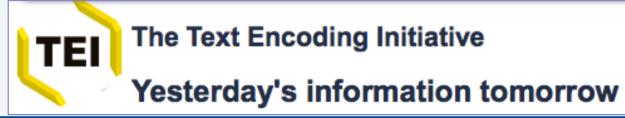
- no substantial research in renaissance music for last 20 years
 - strongly interested in connectedness of sources and ideas
- digital humanities
 - how to enhance humanities with digital resources, software and online services?
- interactive systems design
 - what is the optimal collaboration between humans and technology?



Thesaurus musicarum italicarum

- founded in 1996
- aim was to create 'multimedial' editions of Italian-language music treatises
 - searchable hypertext
 - illustrations, music, facsimile
 - textual criticism, linking, enrichment, annotation, collaboration
- use state-of-the-art technology of 1990s
- Zarlino's works as guinea pigs

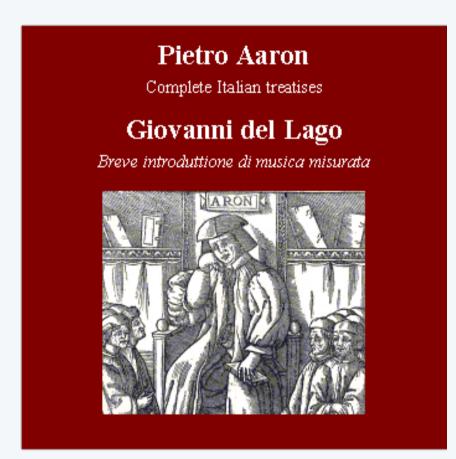




CD-ROMs



Zarlino *Istitutioni* (1558, 1589), *Dimostrationi* (1589), *Sopplimenti* (1589). CD-ROM published 1997



ed. Anne-Emmanuelle Ceulemans and Paloma Otaola, 2003



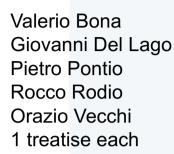
TmiWeb (2000)



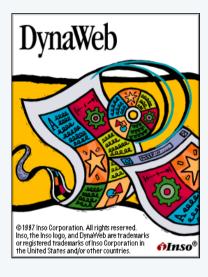
Gioseffo Zarlino 3 treatises

Pietro Aaron

5 treatises



Agostino Agazzari Illuminato Aiguino 2 treatises each

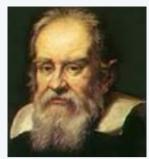




Bernardino Baldi 2 treatises



Girolamo Mei 1 treatise



Vincenzo Galilei 2 treatises



Hercole Bottrigari

1 treatise



Fedele Fenaroli
1 treatise



Giovanni Maria Artusi 6 treatises



Orazio Tigrini 1 treatise



Nicola Vicentino 1 treatise



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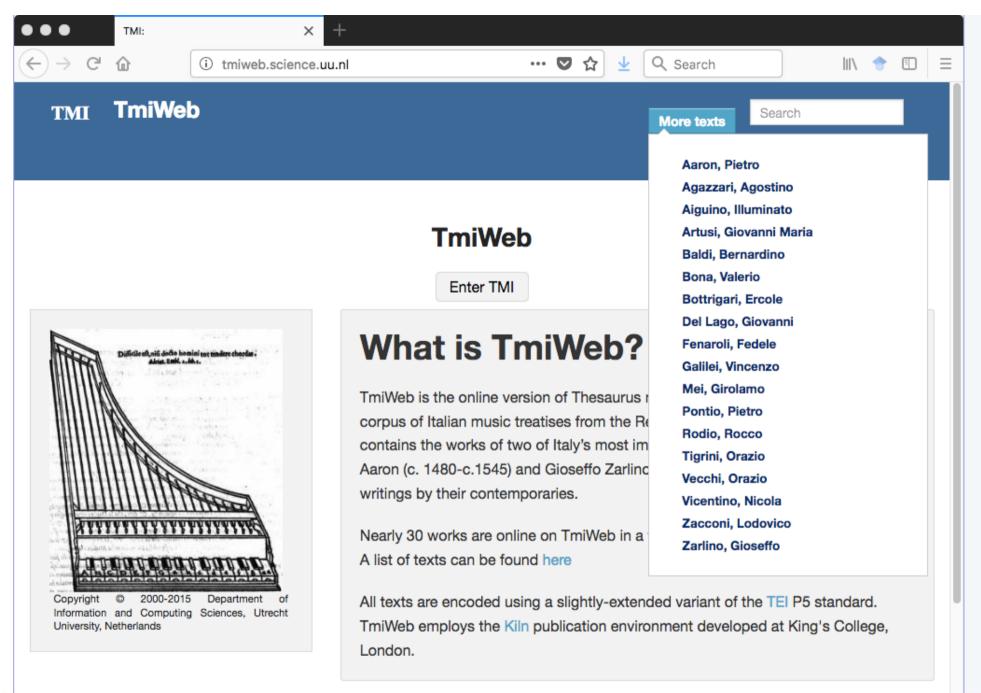
TmiWeb2 (2014)

- Dynaweb server broke down in 2013
- Small data project sponsored by DANS in 2014
- all treatises converted to modern TEI P5 (XML)
- experimental online publication
 - Kiln (by KCL Department of Digital Humanities)
 - Cocoon, Apache, Open Source
 - basic functionality
- extensible

tmiweb.science.uu.nl







Demo outline in Chrome

- zarins58, http://localhost:9999/text/readingedition/zarins58.html
 - title page, afbeelding; grieks
 - scroll to TOC
 - go to ch 343
 - show music example; MIDI—downloaded in Chrome
 - gegenereerde TOC, ga naar 4.18
 - search within page, e.g salmod zie ook rechterbar voor verdeling– soggetto (Philippe C)
 - diapente/quinta diatessaron/quarta diapason/ottaua
 - NB we get this for free from Chrome
 - search over corpus using search field, e.g. salmo; diap*



A critical inspection

- many improvements could be imagined
- content
 - small set of treatises, notable omissions
 - e.g. IH 1573, DH 1571
 - various levels of enrichment
 - illustrations and examples often unavailable
- presentation and interaction
 - organisation and navigation of treatises could be improved
 - not so intuitive search
 - no linking to other (Latin) sources (yet)
- utility
 - how could it (be made to) help your research?



Scholars reading sources

- common behaviours
 - close reading
 - complex reading
 - exploratory search
- distant reading
 - there is just too much to read
 - discover patterns computationally



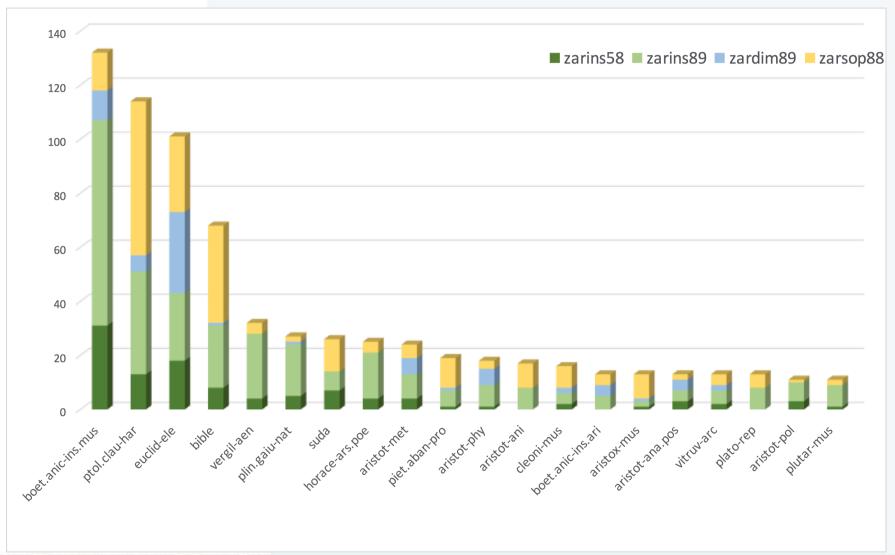
- could TMI support distant reading?
 - TMI source files can be processed with any XML-aware software

TMI and distant reading

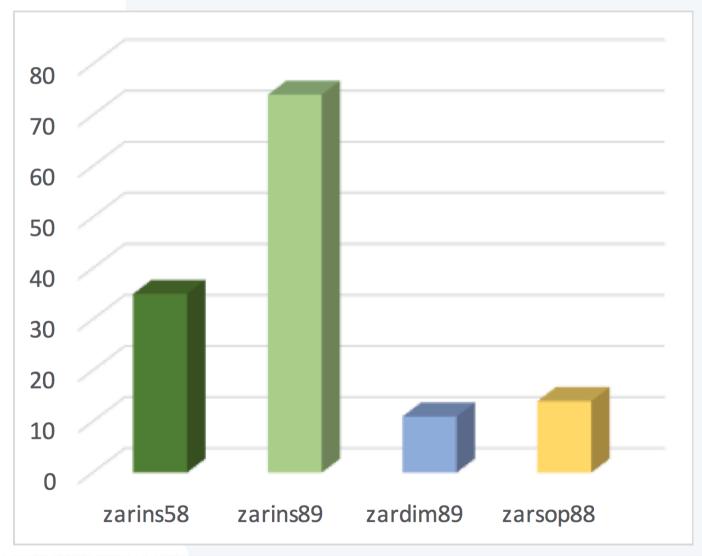
me di sopra si è mostrato, & come nel Lib.7 de i suoi Elementi, ò Principii, che dire li vogliamo, Euclide, & anche Boetio nel Cap.8 del Secondo libro della Musica manisesta no. Et li Musici nella Prolatione delle figure cantabili segnano i Numeri delle proportioni di Maggiore inequalità in tal modo, che'l maggior termine della proportione, che uogliono mostrare, pongono sopra'l minore; come nole ido mostrar la Prolation del la Dupla, la segnano in questo modo 2. & quella della sessquialtera così 2. Ma in quel-

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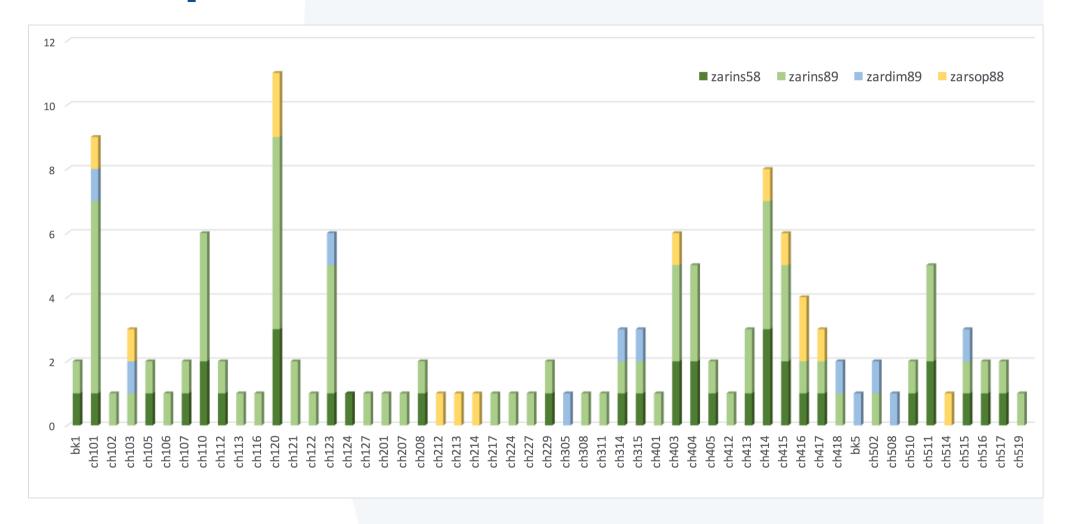
Zarlino reading the classics



Zarlino reading Boethius' Musica

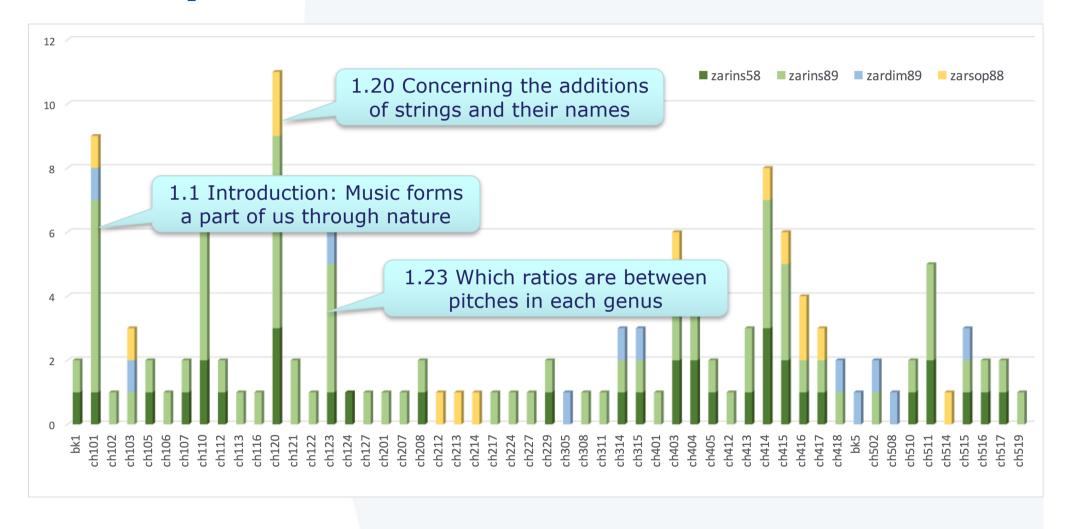


Chapters Zarlino was interested in



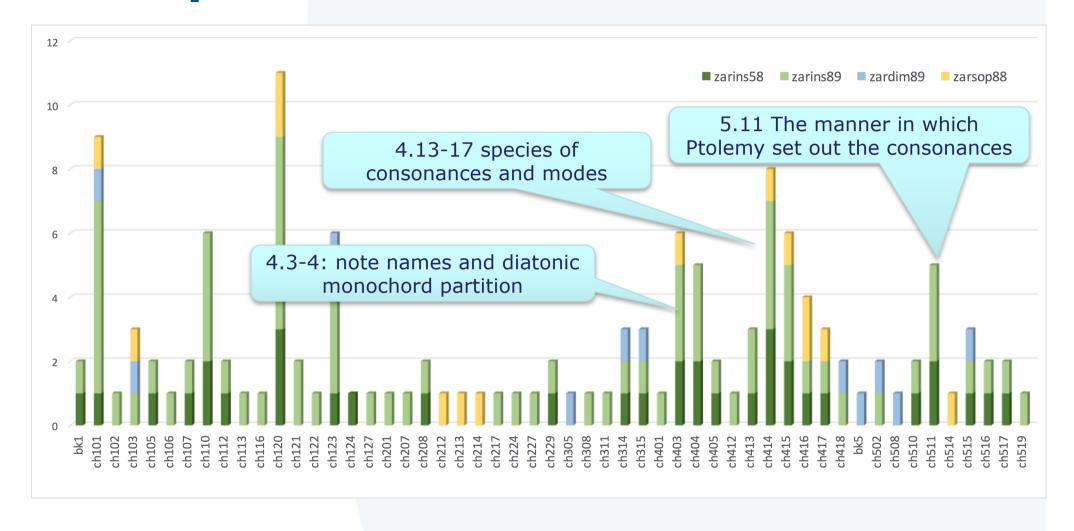


Chapters Zarlino was interested in





Chapters Zarlino was interested in



Moving on with TMI

- currently unfunded
- no resources for data creation/curation
- what we can do (to a certain extent)
 - make this resource better fit to your research
 - improve interaction
 - creating suitable analytical tools
- feedback is welcome at <u>f.wiering@uu.nl</u>



tmiweb.science.uu.nl