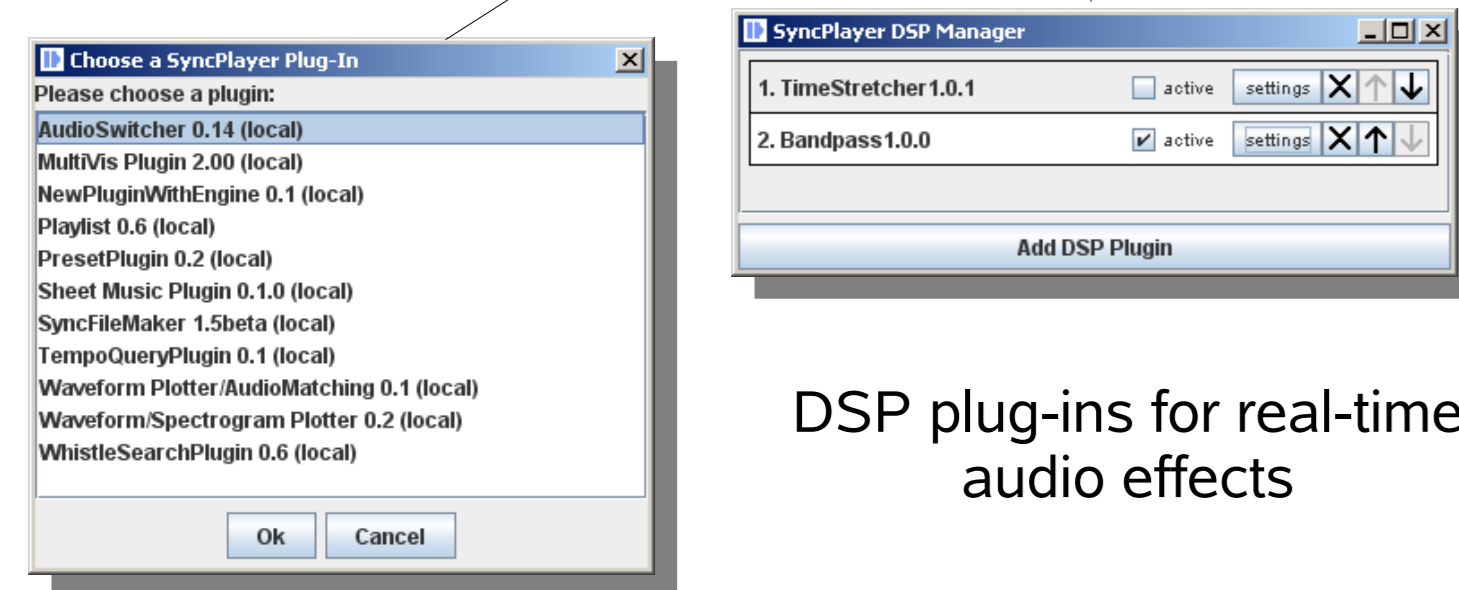


# A Demonstration of the SyncPlayer System

Christian Fremerey, Frank Kurth, Meinard Müller, Michael Clausen  
 {fremerey, frank, meinard, clausen}@iai.uni-bonn.de

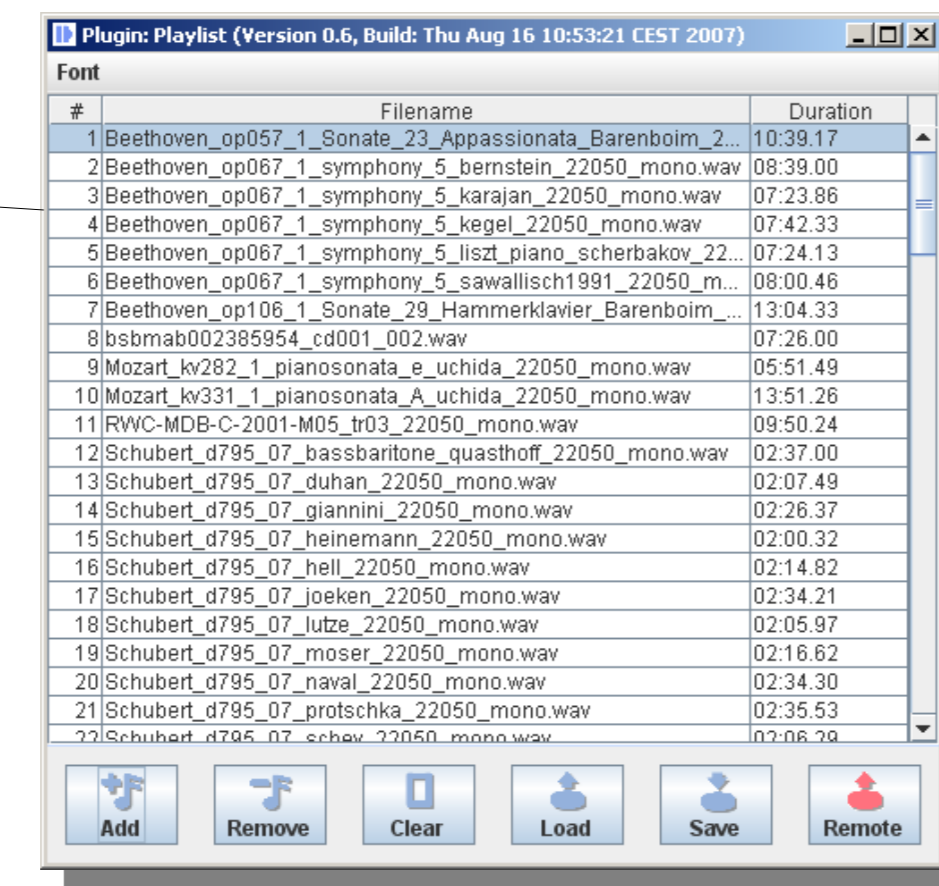
## Main Controls

SyncPlayer Main GUI Window



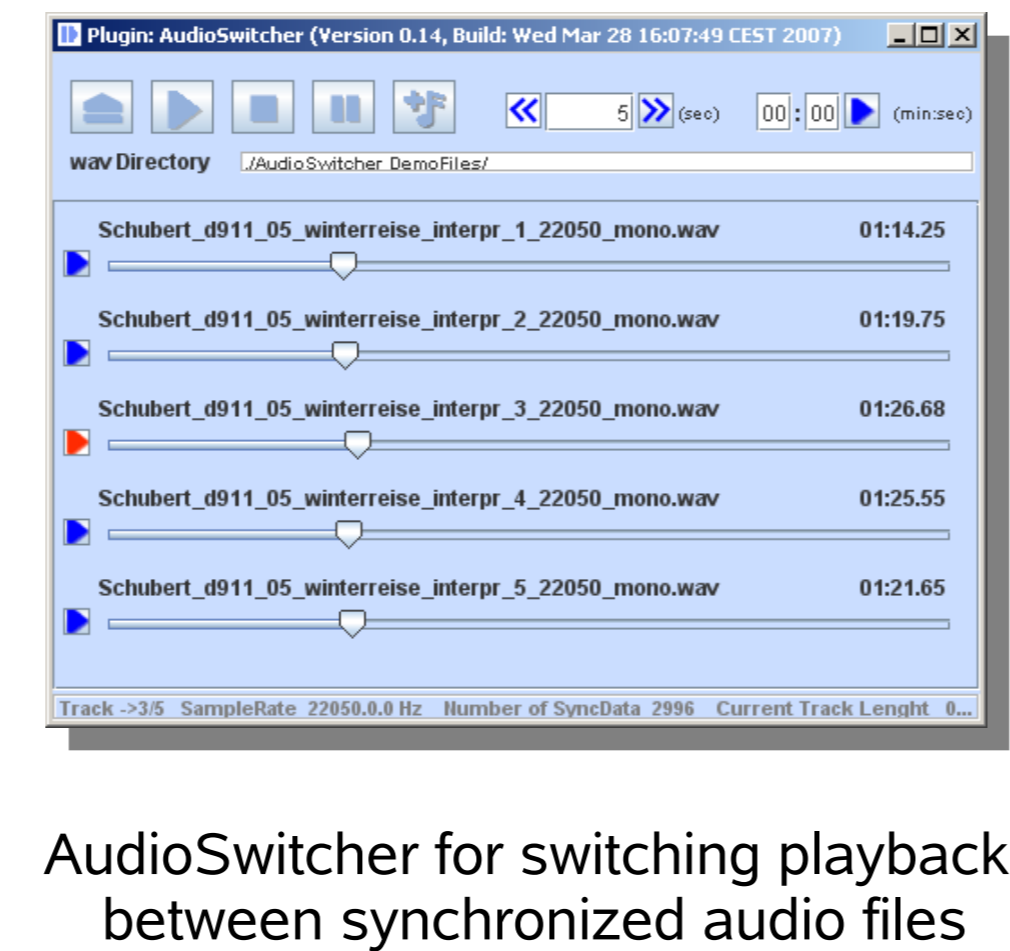
DSP plug-ins for real-time audio effects

SyncPlayer plug-ins



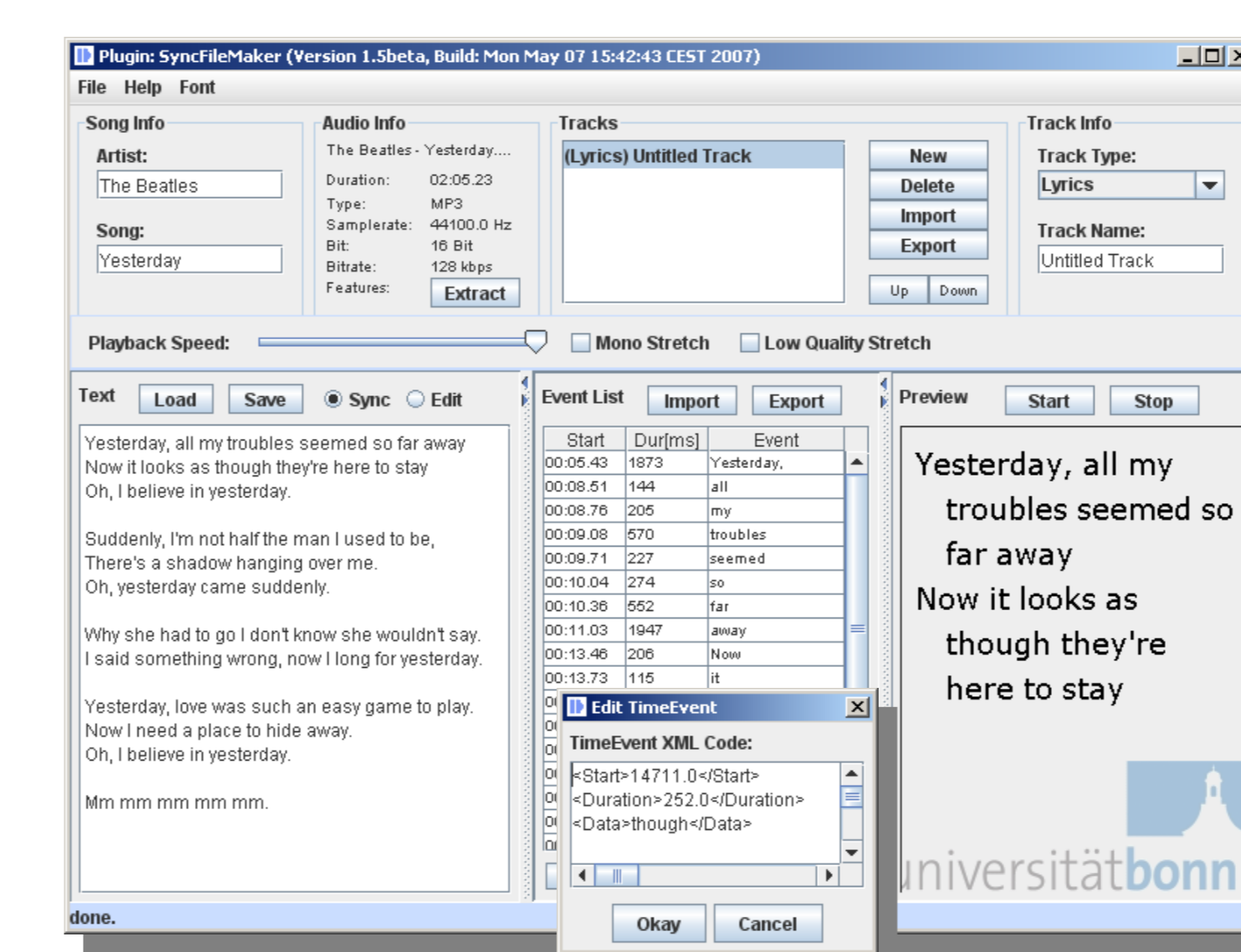
Playlist for local and remote audio files

## Inter-Document Navigation



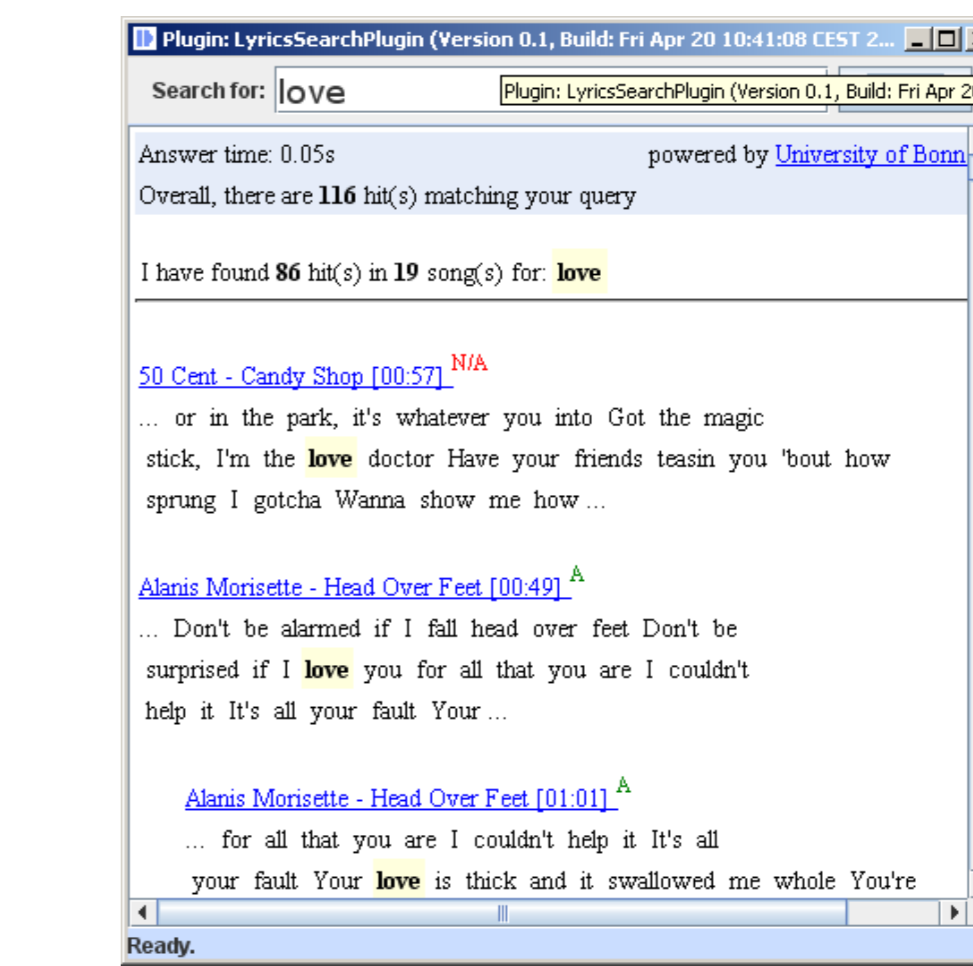
AudioSwitcher for switching playback between synchronized audio files

## Creation & Editing of Annotations

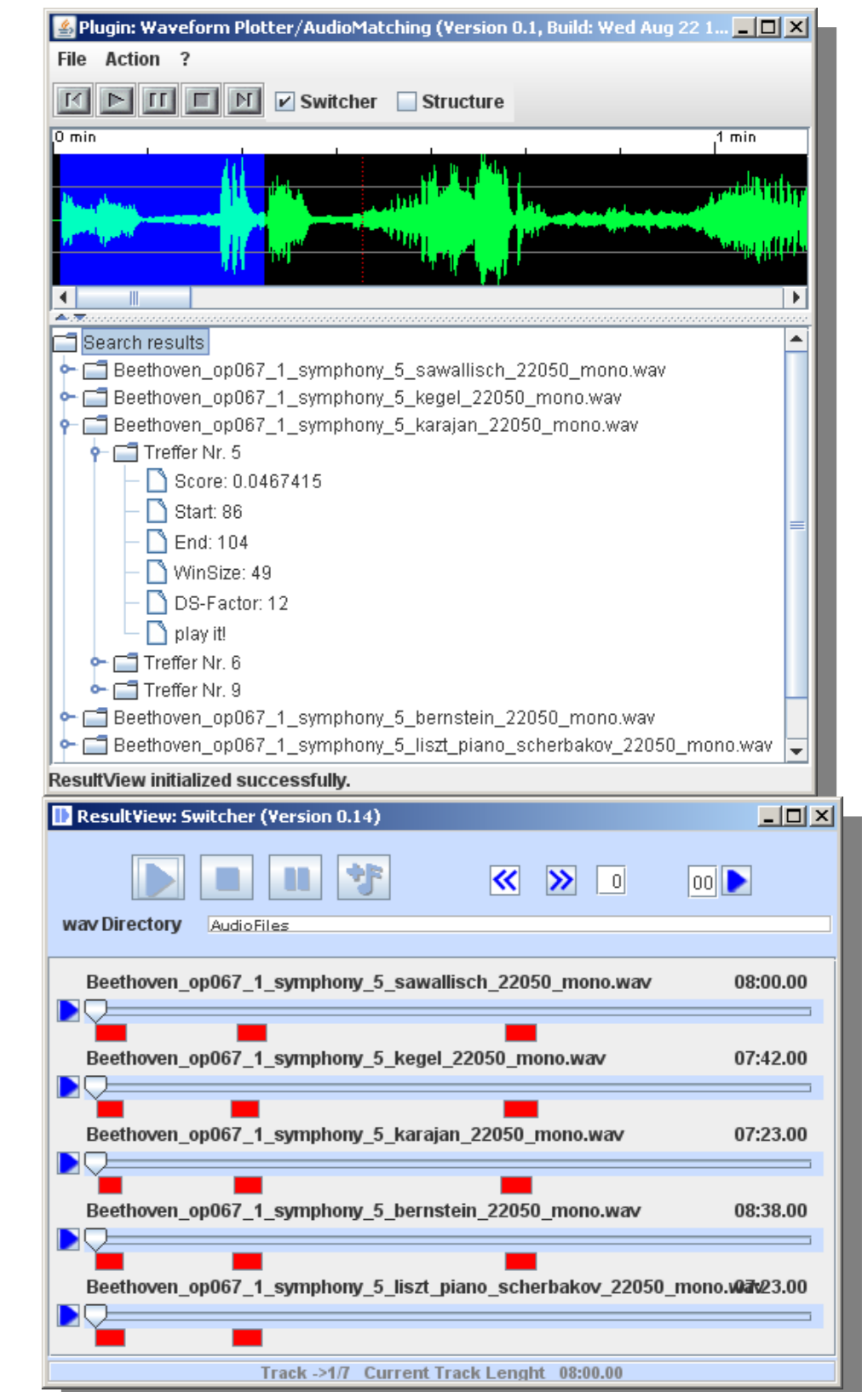


SyncFileMaker for semi-manual annotation

## Searching & Display of Results

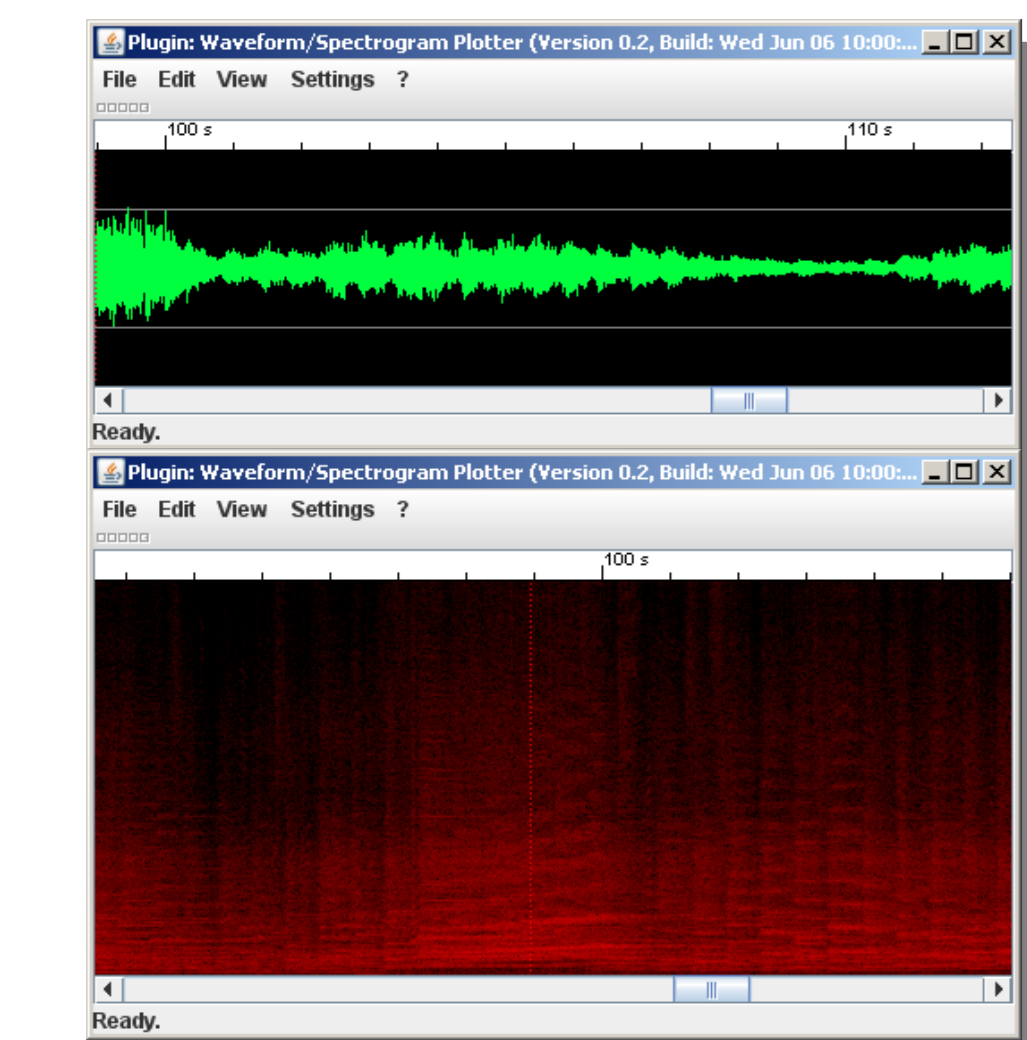


Lyrics query and result list

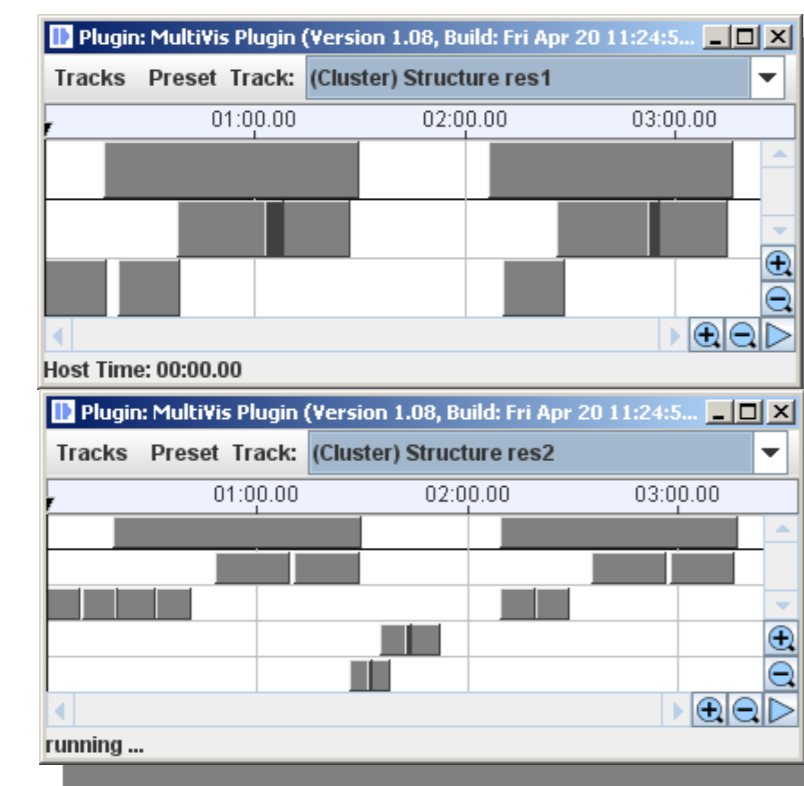


Audiomatching query with two different views on the results [4]

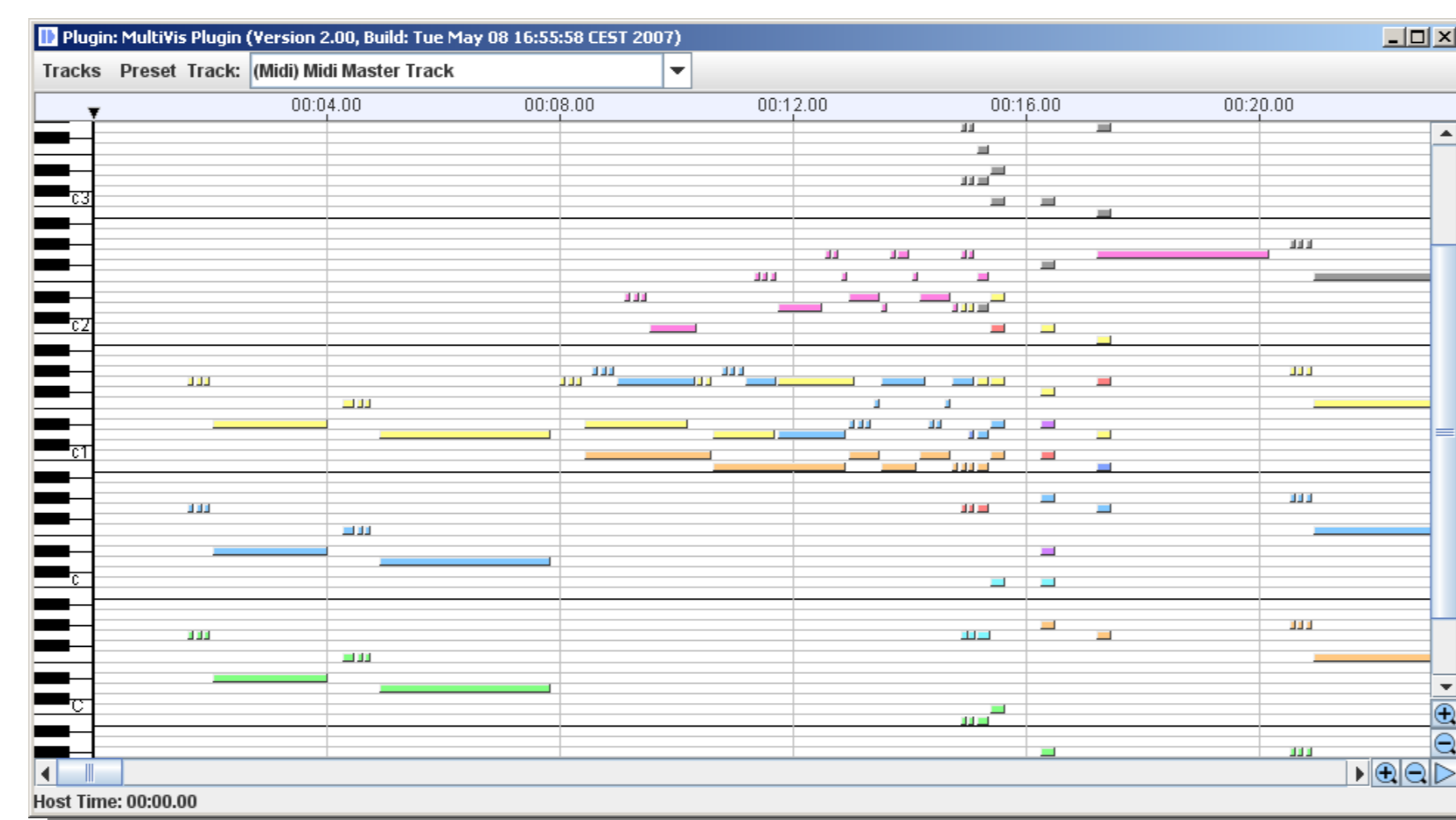
## Visualization / Display of Annotations & Intra-Document Navigation



Waveform / Spectrogram Plotter



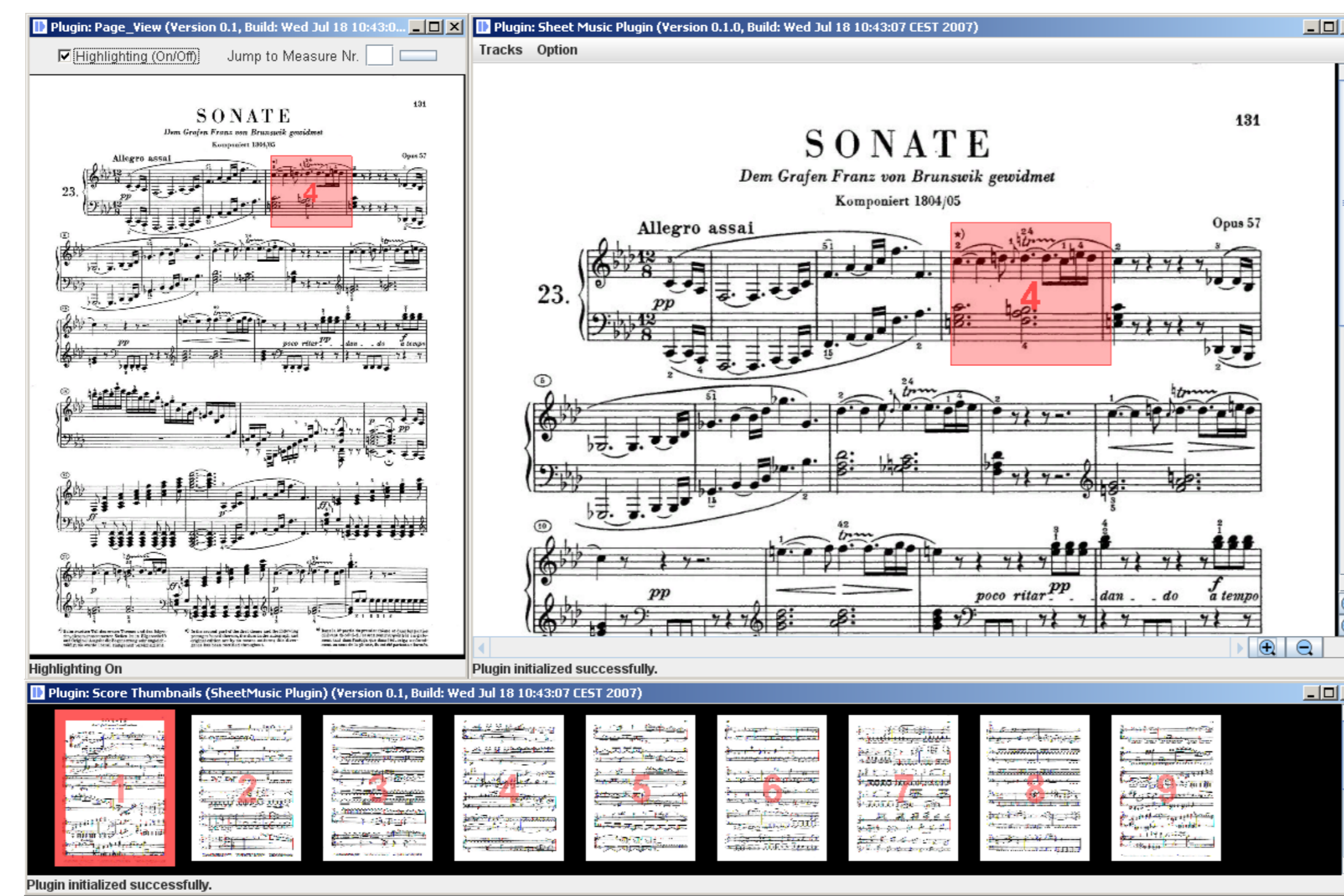
Audio Structure Display [2]



Piano-Roll Display

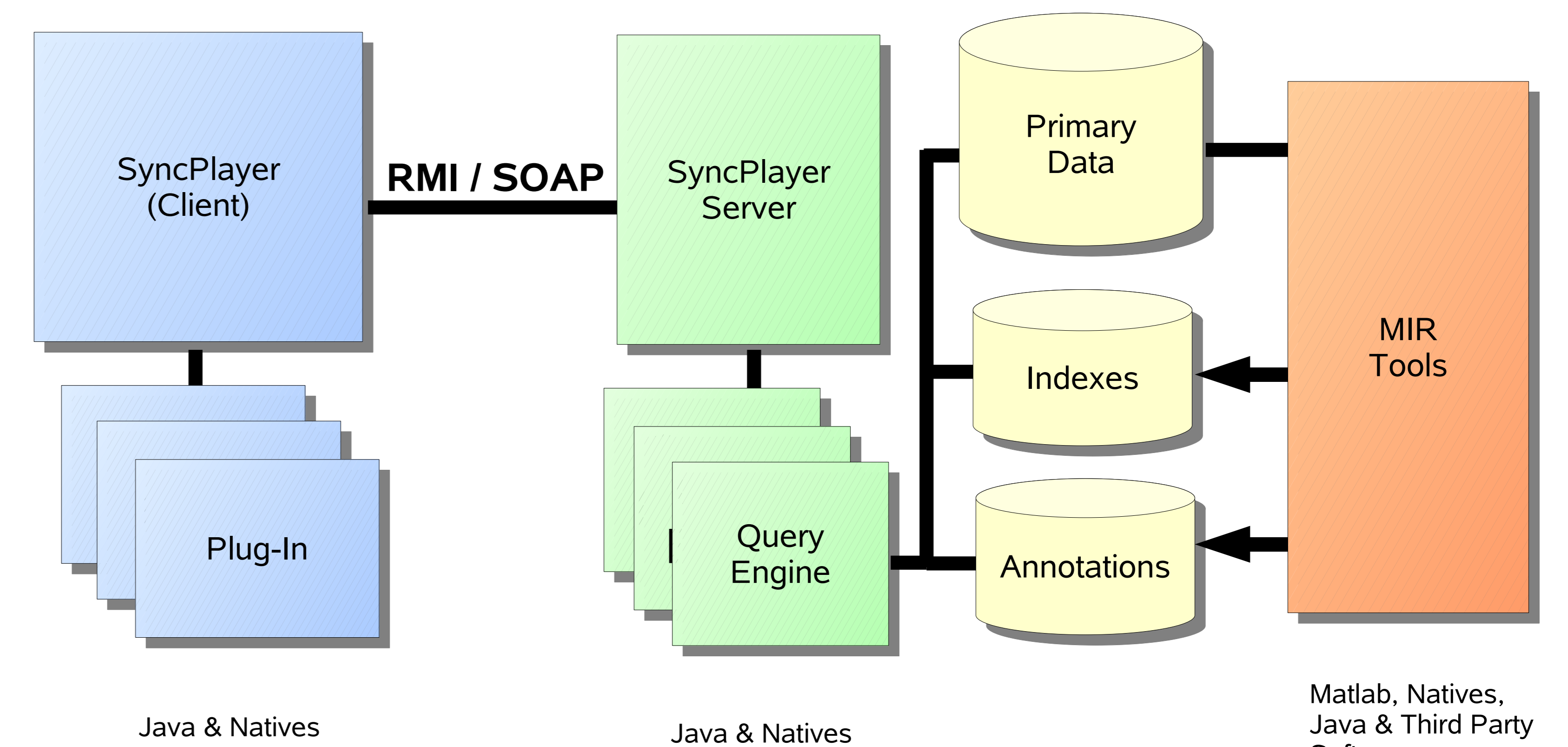


Lyrics Display



Sheet Music Display showing page view (top left), full view (top right) and thumbnail view (bottom) [3]

## Technology & Architecture



## References

- [1] FREMEREY C., *SyncPlayer – a Framework for Content-Based Music Navigation*. Master Thesis, Dept. of Computer Science, University of Bonn, 2006.
- [2] GOTO M., *SmartMusicKIOSK: Music Listening Station with Chorus-Search Function*. Website, June 2004. <http://staff.aist.go.jp/m.goto/SmartMusicKIOSK/>
- [3] KURTH F., MÜLLER M., FREMEREY C., CHANG Y., CLAUSEN M. (2007): *Automated Synchronization of Scanned Sheet Music with Audio Recordings*, in Proc. ISMIR, Vienna, 2007.
- [4] MÜLLER M., KURTH F. AND CLAUSEN M., *Audio matching via chroma-based statistical features*, in Proc. ISMIR, London, 2005.
- [5] SYNCPLAYER, *An advanced system for multimodal music access*. Website, January 2007. <http://www-mmdb.iai.uni-bonn.de/projects/syncplayer>