

An Online Interface to explore Monophonic Audio Segments

Steven Ness,¹ Peter van Kranenburg²

¹ Computer Science Department, University of Victoria

² Meertens Institute, Amsterdam

Input:

MP3-file containing audio track

MP3-file containing sine of detected pitch contour

MP3-file containing quantized contour using some scale

Text-file describing the segmentation

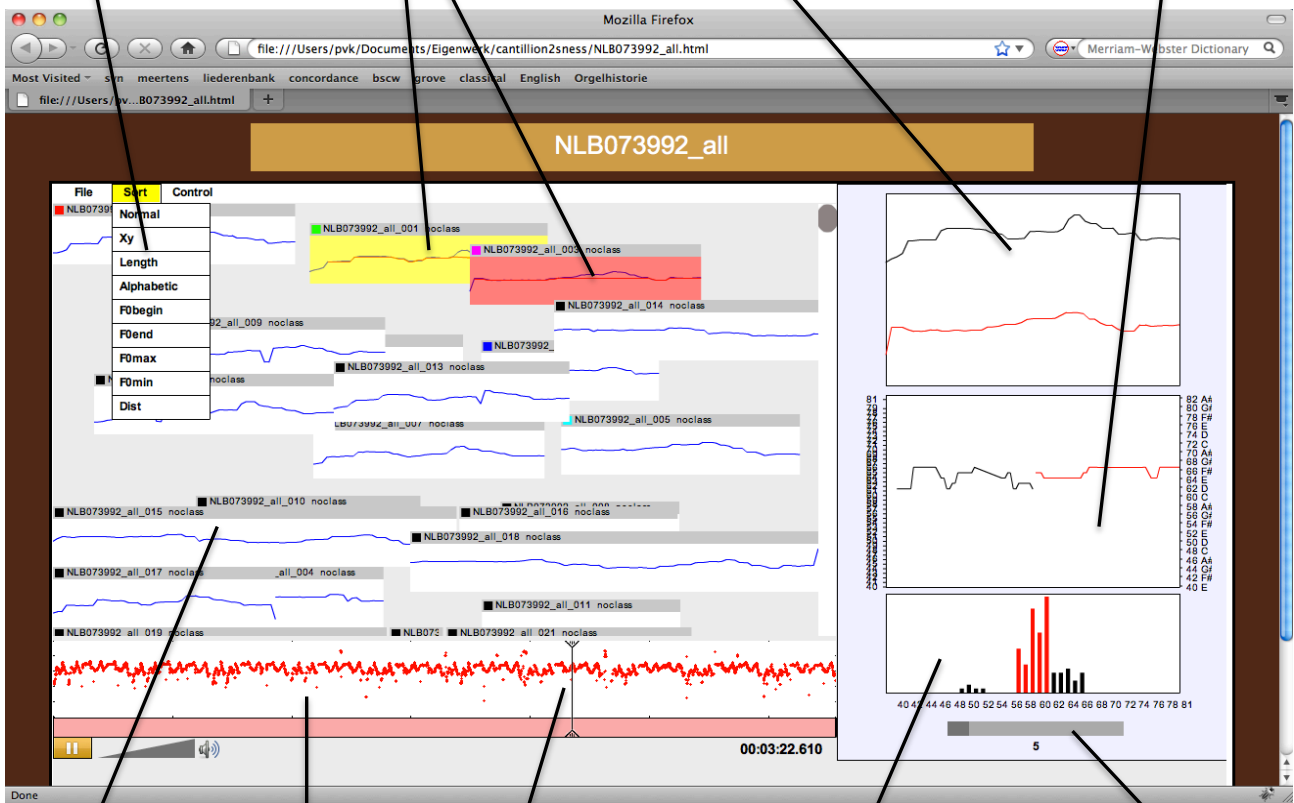
Text-file with similarity matrix of the segments

PNG with graphical representation of the track

Implemented as flash applet.

```
The next line is the scale, then the next line the "header", then the rest are the signs.
40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69
id, classname, color, soundfile, starttime, endtime, f0 envelope (MIDI units)
NLB073992_all_000, noclass, 0xFF0000, NLB073992_all.wav, 0.20898, 5.36381, 49.29 49.43 5
NLB073992_all_001, noclass, 0x00FF00, NLB073992_all.wav, 5.87465, 10.9366, 49.79 51.03 5
NLB073992_all_002, noclass, 0x0000FF, NLB073992_all.wav, 11.4474, 15.2323, 63.05 64.69 6
NLB073992_all_003, noclass, 0xFF00FF, NLB073992_all.wav, 15.5109, 20.4336, 51.02 61.21 6
NLB073992_all_004, noclass, 0xFFFF00, NLB073992_all.wav, 21.0605, 24.8686, 63.81 64.82 6
NLB073992_all_005, noclass, 0x00FFFF, NLB073992_all.wav, 25.124, 30.2092, 60.55 60.76 61
NLB073992_all_006, noclass, 0x000000, NLB073992_all.wav, 31.0219, 35.898, 50.91 51.99 51
NLB073992_all_007, noclass, 0x000000, NLB073992_all.wav, 36.525, 41.4476, 51.67 52.26 52
NLB073992_all_008, noclass, 0x000000, NLB073992_all.wav, 42.0513, 45.8594, 63.01 64.06 6
NLB073992_all_009, noclass, 0x000000, NLB073992_all.wav, 46.138, 51.0839, 59.28 59.9 60
NLB073992_all_010, noclass, 0x000000, NLB073992_all.wav, 51.943, 56.7263, 63.58 63.58 64
NLB073992_all_011, noclass, 0x000000, NLB073992_all.wav, 56.9585, 61.1846, 59.01 59.26 5
NLB073992_all_012, noclass, 0x000000, NLB073992_all.wav, 61.9973, 67.1289, 49.75 50.13 5
NLB073992_all_013, noclass, 0x000000, NLB073992_all.wav, 67.6629, 72.6785, 50.56 51.66 5
NLB073992_all_014, noclass, 0x000000, NLB073992_all.wav, 73.3286, 81.6878, 64.56 65.21 6
```

Sort segments Selected segments Contours of Selected segments Reduced contours of Selected segments



Audio segments

Playback position

Pitch histogram of selected segments

Reduce number of pitches

Graphical representation



Nederlandse Organisatie voor Wetenschappelijk Onderzoek



Universiteit Utrecht



University of Victoria



KONINKLIJKE NEDERLANDSE AKADEMIE VAN WETENSCHAPPEN



NWO project no. 640-003 501



Meertens Institute