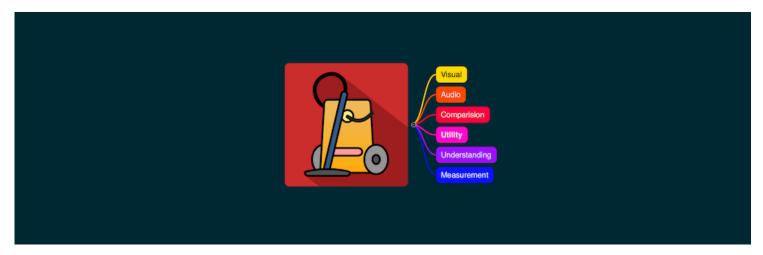
VACUUM - (tuneBuildTest_C_scale, e1)



VISUAL AUDIO COMPARISION UTILITY [FOR] UNDERSTANDING [AND] MEASUREMENT

A testing and analysis workflow

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Imports

Librosa IPython Numpy Scipy Matplotlib

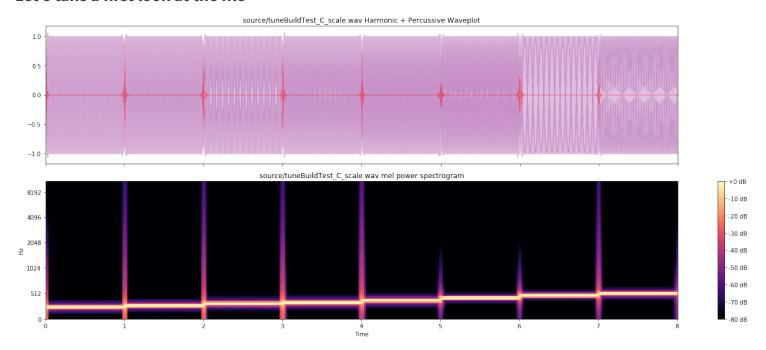
Let's bring the files in

Source1 Track (tuneBuildTest_C_scale.wav)

Open Source1, get some basic statistics and create a player

File: source/tuneBuildTest_C_scale.wav
Duration: 8.0000 sec
Tuning estimate: 0.0100000000000000000

Let's take a first look at the file

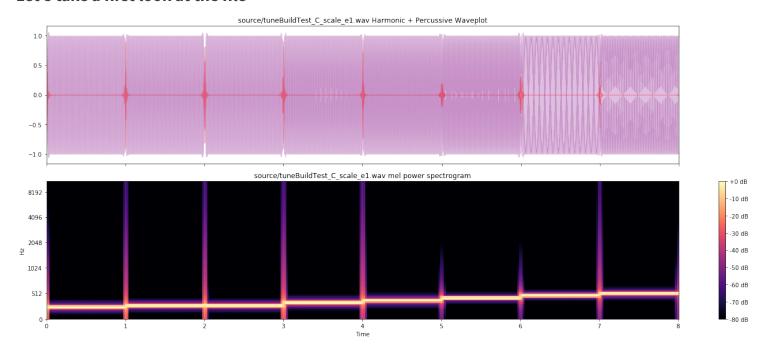


Source 2 Track (tuneBuildTest_C_scale_e1.wav)

Open Source2, get some basic statistics and create a player

File: source/tuneBuildTest_C_scale_e1.wav
Duration: 8.0000 sec
Tuning estimate: 0.0100000000000000009

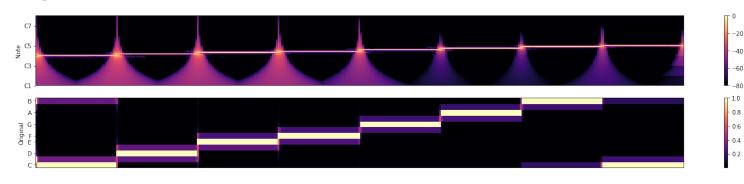
Let's take a first look at the file



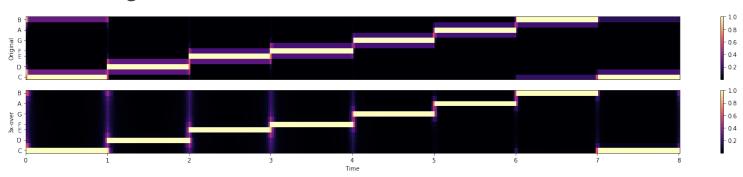
Enhanced chroma and chroma variants (source1)

Enhanced chroma and chroma variants

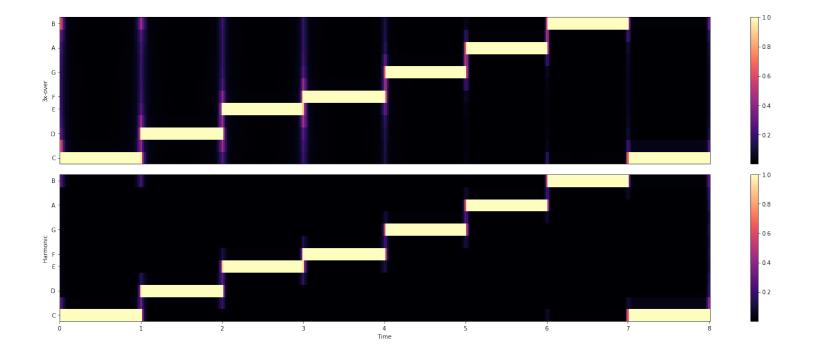
Original source1



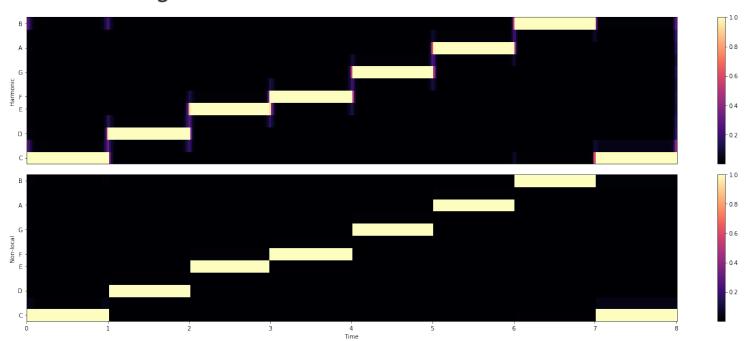
Correct Tuning Deviations



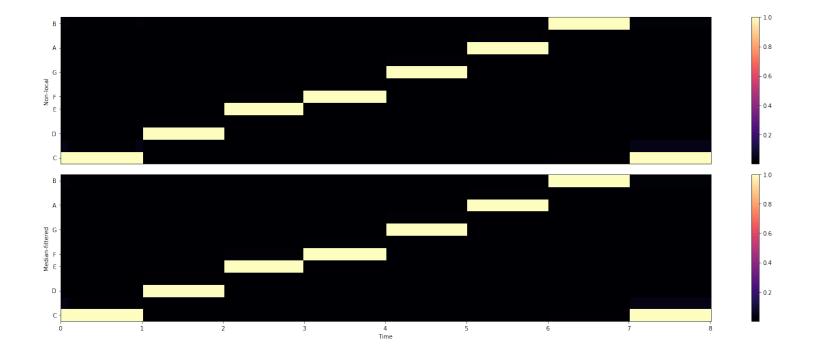
Isolate harmonic component



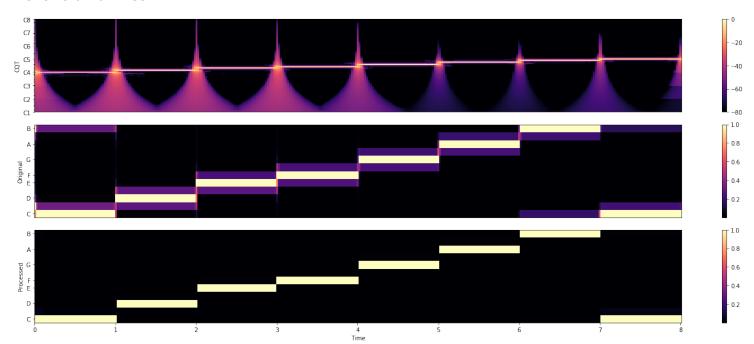
Non-local filtering



Horizontal Median Filter

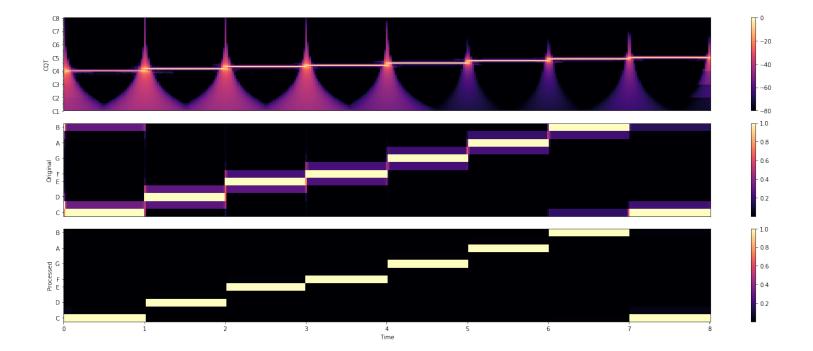


Before and After

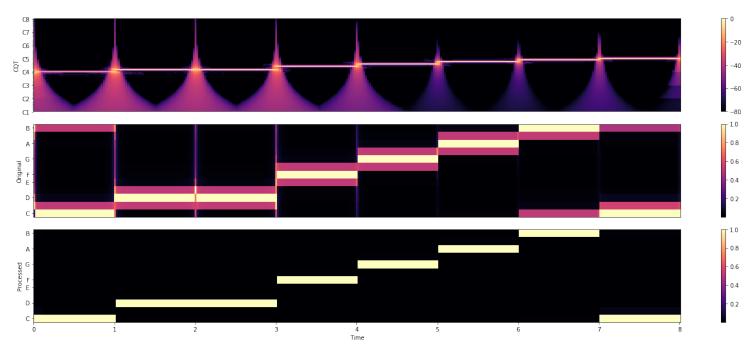


Applying chroma enchancement techniques to source files

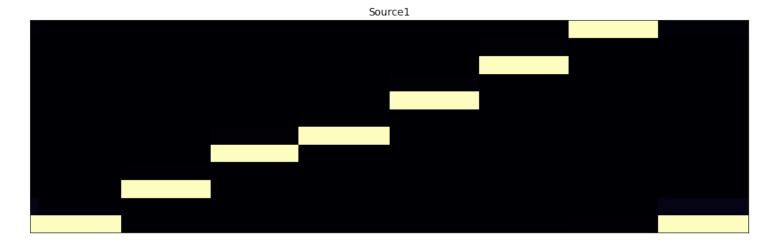
Source1

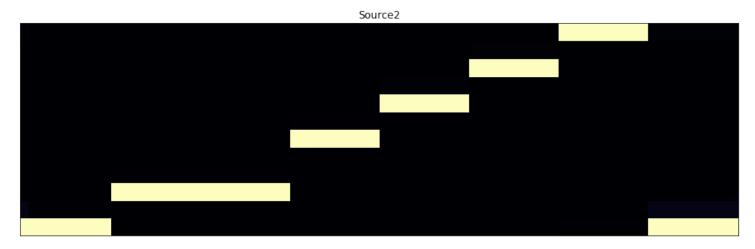


Source2



Output comparisions for testing





Run imageDiff

