Waveforms of dyads with harmonic spectra, spanning 0 to 1200 cents

The fundamental frequency of each dyad's lower tone is 150 Hz (i.e., ca. D3, middle line of the bass-clef staff).

The fundamental frequencies of the dyads' upper tones range from 1200 to 0 cents above 150 Hz (i.e., from 300 Hz to 150 Hz), in increments of 25 cents.

The duration of each dyad and its component tones is 3 seconds.

The spectrum of each tone comprises 5 sine tones.

Each of the 5 sine tones was generated on a separate track by means of Audacity freeware and having the following relative amplitudes (Generate/Tone...; Tracks/Add New):

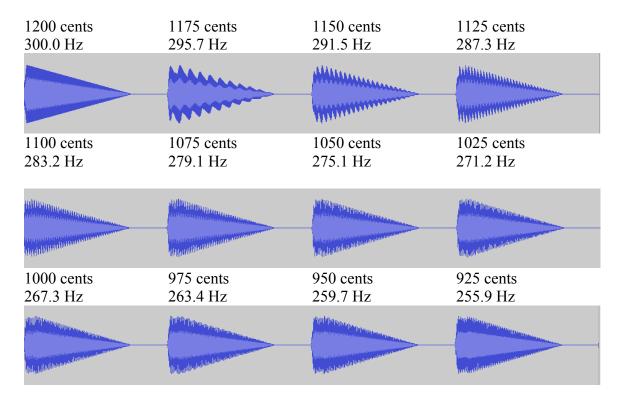
- 1st partial (e.g., 150 Hz): 0.4 (-8 dB) 2nd partial (e.g., 300 Hz): 0.2 (-14 dB)
- 3rd partial (e.g., 450 Hz): 0.1 (-20 dB)
- 4th partial (e.g., 600 Hz): 0.05 (-26 dB)
- 5th partial (e.g., 750 Hz): 0.025 (-32 dB)

The 5 tracks were combined into a single track (Tracks/Mix and Render), resulting in an amplitude of -5.2 dB, which was decreased to -12 dB by changing the tone's amplitude by -6.8 dB (Effect/Amplify).

The amplitude of the first 100 milliseconds was faded in (Effect/Fade In) and the remaining 2.9 milliseconds were faded out (Effect/Fade Out).

The following images convey the changes in each dyad's amplitude from the beginning to the end of its 3-second duration, with a 1-second silence between successive dyads. A recording of all 49 dyads in the following order, i.e., from 1200 cents to 0 cents) is accessible online as a .way file at

http://vorkspace.library.vorku.ca/xmlui/handle/10315/32806.



900 cents 252.3 Hz	875 cents 248.7 Hz	850 cents 245.1 Hz	825 cents 241.6 Hz
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400 cents 189.0 Hz	375 cents 186.3 Hz	350 cents 183.6 Hz	325 cents 181.0 Hz
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300 cents 178.4 Hz	275 cents 175.8 Hz	250 cents 173.3 Hz	225 cents 170.8 Hz
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200 cents 168.4 Hz	175 cents 166.0 Hz	150 cents 163.6 Hz	125 cents 161.2 Hz
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100 cents 158.9 Hz	75 cents 156.6 Hz	50 cents 154.4 Hz	25 cents 152.2 Hz
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