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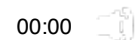
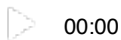
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# Weighted Graph “Music”

2017-02-25 BY GENE

**Code:** [synch-weighted-randomized](#)



This piece was constructed in 4-bar increments by running the above code and importing the generated phrases (MIDI file) into my DAW ([Apple Logic](#)). I then gave the patterns “better” patches, used layers and added a drum track for continuity.

The code uses randomly generated weighted graphs to build up a melody and bassline, given certain command-line parameters.

For this piece, the parameters varied between staccato and legato phrases. Here are examples,

Staccato:

```
perl synch-weighted-randomized --treble='C5 D5 E5 F5 G5 A5 B5 C6' --bass='C
```

Legato:

```
perl synch-weighted-randomized --treble='C5 D5 E5 F5 G5 A5 B5 C6' --treble_  
--bass='C3 F3 G3' --bass_duration='hn dqn'
```

Here is another that I generated in phrases of 8 with slightly different command-line parameters, but without changing patches or adding anything:



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