

20th string sextet
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A 12-tone matrix is used to generate the amplitude and frequency
for equations that map the pitches of the instruments.

This version is Version 1.

Other rows may be used.

Map from $t = 0$ to $t = \pi$ onto an hour duration
and onto an octave range
(or optionally a 2-octave range if desired).

For performance, I recommend creating guide-tracks
using a sawtooth wave or even better a string-instrument sample,
and a score that includes indication of the exact times of upward/downward pitch direction changes.

Play softly but with a healthy sound.

10	7	1	9	2	11	6	3	5	4	12	8
1	10	4	12	5	2	9	6	8	7	3	11
7	4	10	6	11	8	3	12	2	1	9	5
11	8	2	10	3	12	7	4	6	5	1	9
6	3	9	5	10	7	2	11	1	12	8	4
9	6	12	8	1	10	5	2	4	3	11	7
2	11	5	1	6	3	10	7	9	8	4	12
5	2	8	4	9	6	1	10	12	11	7	3
3	12	6	2	7	4	11	8	10	9	5	1
4	1	7	3	8	5	12	9	11	10	6	2
8	5	11	7	12	9	4	1	3	2	10	6
12	9	3	11	4	1	8	5	7	6	2	10

$$y = +10\sin(1t) - 7\sin(10t) + 1\sin(4t) - 9\sin(12t) + 2\sin(5t) - 11\sin(2t) + 6\sin(9t) - 3\sin(6t) + 5\sin(8t) - 4\sin(7t) + 12\sin(3t) - 8\sin(11t)$$
$$y = -7\sin(11t) + 4\sin(8t) - 10\sin(2t) + 6\sin(10t) - 11\sin(3t) + 8\sin(12t) - 3\sin(7t) + 12\sin(4t) - 2\sin(6t) + 1\sin(5t) - 9\sin(1t) + 5\sin(9t)$$
$$y = +6\sin(9t) - 3\sin(6t) + 9\sin(12t) - 5\sin(8t) + 10\sin(1t) - 7\sin(10t) + 2\sin(5t) - 11\sin(2t) + 1\sin(4t) - 12\sin(3t) + 8\sin(11t) - 4\sin(7t)$$
$$y = -2\sin(5t) + 11\sin(2t) - 5\sin(8t) + 1\sin(4t) - 6\sin(9t) + 3\sin(6t) - 10\sin(1t) + 7\sin(10t) - 9\sin(12t) + 8\sin(11t) - 4\sin(7t) + 12\sin(3t)$$
$$y = +3\sin(4t) - 12\sin(1t) + 6\sin(7t) - 2\sin(3t) + 7\sin(8t) - 4\sin(5t) + 11\sin(12t) - 8\sin(9t) + 10\sin(11t) - 9\sin(10t) + 5\sin(6t) - 1\sin(2t)$$
$$y = -8\sin(12t) + 5\sin(9t) - 11\sin(3t) + 7\sin(11t) - 12\sin(4t) + 9\sin(1t) - 4\sin(8t) + 1\sin(5t) - 3\sin(7t) + 2\sin(6t) - 10\sin(2t) + 6\sin(10t)$$

