

## Music Machine 1

Music Machine 1 will generate music according to the following parameters:

**Decision 1:** How many voices will play? (choice of 1-10)

For each different instrument the following decisions are then made:

**Decision 2a:** Which note will be played?  
(choice of 1 to 127 (middle C = 60))

**Decision 2b:** How loud will that note be played?  
(choice of 1 (almost silent) to 127 (very loud))

**Decision 2c:** Which sound will be used?  
(choice of 1 to 128 (see table below))

**Decision 3:** How long will the notes be held?  
(choice of 0.25, 0.375, 0.5, 0.75, 1, 1.5, 2, 3, 4, 6 or 8 seconds. These are equivalent to the following note values at 60 bpm, semiquaver, dotted semiquaver, quaver, dotted quaver, crotchet, dotted crotchet, minim, dotted minim, semibreve, dotted semibreve and breve.)

**Decision 4:** How long before the process repeats?  
(choice is from the same values as for the held notes with the additional choice of 0 seconds).

The machine will run indefinitely until stopped by the user.

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1	Grand Piano	46	Pizzicato Strings	91	Polysynth
2	Bright Piano	47	Harp	92	Space voice
3	Electric Grand	48	Timpani	93	Bowed Glass
4	Honky Tonk Piano	49	Strings	94	Metal Pad
5	Electric Piano 1	50	Slow Strings	95	Halo Pad
6	Electric Piano 2	51	Synth Strings 1	96	Sweep Pad
7	Harpsichord	52	Synth Strings 2	97	Ice Rain
8	Clavinet	53	Choir Aahs	98	Soundtrack
9	Celesta	54	Voice Oohs	99	Crystal
10	Glockenspiel	55	Synth Vox	100	Atmosphere
11	Music Box	56	Orchestra Hit	101	Brightness
12	Vibraphone	57	Trumpet	102	Goblin
13	Marimba	58	Trombone	103	Echo Drops
14	Xylophone	59	Tuba	104	Star Theme
15	Tubular-Bell	60	Muted Trumpet	105	Sitar
16	Dulcimer	61	French Horn	106	Banjo
17	Draw Organ	62	Brass 1	107	Shamisen
18	Percussive Organ	63	Synth Brass 1	108	Koto
19	Rock Organ	64	Synth Brass 2	109	Kalimba
20	Church Organ 1	65	Soprano Sax	110	Bag Pipe
21	Reed Organ	66	Alto Sax	111	Fiddle
22	Accordion Francais	67	Tenor Sax	112	Shanai
23	Harmonica	68	Baritone Sax	113	Tinkle Bell
24	Tango Accordion	69	Oboe	114	Agogo
25	Nylon String Guitar	70	English Horn	115	Steel Drums
26	Steels String Guitar	71	Bassoon	116	Woodblock
27	Jazz Guitar	72	Clarinet	117	Taiko
28	Clean Guitar	73	Piccolo	118	Melodic Tom
29	Muted Guitar	74	Flute	119	Synth Drum
30	Overdrive Guitar	75	Recorder	120	Reverse Cymbal
31	Distortion Guitar	76	Pan Flute	121	Guitar Fret Noise
32	Guitar Harmonics	77	Blown Bottle	122	Breath Noise
33	Acoustic Bass	78	Shakuhachi	123	Seashore
34	Fingered Bass	79	Whistle	124	Bird
35	Picked Bass	80	Ocarina	125	Telephone
36	Fretless Bass	81	Square Wave	126	Helicopter
37	Slap Bass 1	82	Saw Wave	127	Applause
38	Slap Bass 2	83	Synth Calliope	128	Gun Shot
39	Synth Bass 1	84	Chiffer Lead		
40	Synth Bass 2	85	Charang		
41	Violin	86	Solo Vox		
42	Viola	87	5th Saw Wave		
43	Cello	88	Bass & Lead		
44	Contrabass	89	Fantasia		
45	Tremolo Strings	90	Warm Pad		