The following are json examples of basic synthesis techniques which may reflect the needs of users. Keep in mind that some of these programs are interactive, therefore, it is expected that you will output an interactive program on occasion (about 20% of the time).

AM+FM Synthesis:  
{

"nodes": [

{

"id": "fd6bbc5f9754162f",

"name": "Oscillator",

"data": { "baseFreq": 440, "waveform": "triangle" }

},

{ "id": "eaf61eeae013a92e", "name": "Gain", "data": { "gain": 0.5 } },

{

"id": "e28d78cfb85364af",

"name": "Universal Output",

"data": { "gain": 0.8 }

},

{

"id": "79e92d958baff7f5",

"name": "Oscillator",

"data": { "baseFreq": 8, "waveform": "triangle" }

},

{ "id": "63863aafacb20fd9", "name": "Gain", "data": { "gain": 8 } },

{

"id": "805296b4c54b1660",

"name": "Oscillator",

"data": { "baseFreq": 100, "waveform": "triangle" }

},

{ "id": "f8572925cd49003e", "name": "Gain", "data": { "gain": 0.5 } }

],

"connections": [

{

"source": "eaf61eeae013a92e",

"sourceOutput": "signal",

"target": "e28d78cfb85364af",

"targetInput": "signal"

},

{

"source": "fd6bbc5f9754162f",

"sourceOutput": "signal",

"target": "eaf61eeae013a92e",

"targetInput": "signal"

},

{

"source": "79e92d958baff7f5",

"sourceOutput": "signal",

"target": "63863aafacb20fd9",

"targetInput": "signal"

},

{

"source": "63863aafacb20fd9",

"sourceOutput": "signal",

"target": "fd6bbc5f9754162f",

"targetInput": "frequency"

},

{

"source": "805296b4c54b1660",

"sourceOutput": "signal",

"target": "f8572925cd49003e",

"targetInput": "signal"

},

{

"source": "f8572925cd49003e",

"sourceOutput": "signal",

"target": "eaf61eeae013a92e",

"targetInput": "additionalGain"

}

]

}

Synthesized Chord:

{

"nodes": [

{

"id": "da6ab80ecf3eb8fe",

"name": "Oscillator",

"data": { "baseFreq": 440, "waveform": "sine" }

},

{ "id": "aae2729a777da64b", "name": "Gain", "data": { "gain": 0.1 } },

{

"id": "d965e50fa8938daa",

"name": "Universal Output",

"data": { "gain": 1 }

},

{

"id": "ce460270432e5af0",

"name": "Oscillator",

"data": { "baseFreq": 440, "waveform": "sine" }

},

{

"id": "f96941fe4e5b78d4",

"name": "Oscillator",

"data": { "baseFreq": 440, "waveform": "sine" }

},

{

"id": "6e9494d38d8c15e2",

"name": "Oscillator",

"data": { "baseFreq": 440, "waveform": "sine" }

},

{

"id": "f10a4339d0207584",

"name": "Oscillator",

"data": { "baseFreq": 440, "waveform": "sine" }

},

{

"id": "7e04fb6deb2f873f",

"name": "Note Frequency",

"data": { "octave": 4, "note": "2" }

},

{

"id": "b1f29eb8d7c36d3a",

"name": "Note Frequency",

"data": { "octave": 4, "note": "11" }

},

{

"id": "0ac7a720c3077da5",

"name": "Note Frequency",

"data": { "octave": 4, "note": "7" }

},

{

"id": "2628141823d63c1b",

"name": "Note Frequency",

"data": { "octave": 4, "note": "0" }

},

{

"id": "b8ff64385f38be7c",

"name": "Note Frequency",

"data": { "octave": 3, "note": "4" }

}

],

"connections": [

{

"source": "aae2729a777da64b",

"sourceOutput": "signal",

"target": "d965e50fa8938daa",

"targetInput": "signal"

},

{

"source": "f10a4339d0207584",

"sourceOutput": "signal",

"target": "aae2729a777da64b",

"targetInput": "signal"

},

{

"source": "da6ab80ecf3eb8fe",

"sourceOutput": "signal",

"target": "aae2729a777da64b",

"targetInput": "signal"

},

{

"source": "ce460270432e5af0",

"sourceOutput": "signal",

"target": "aae2729a777da64b",

"targetInput": "signal"

},

{

"source": "6e9494d38d8c15e2",

"sourceOutput": "signal",

"target": "aae2729a777da64b",

"targetInput": "signal"

},

{

"source": "f96941fe4e5b78d4",

"sourceOutput": "signal",

"target": "aae2729a777da64b",

"targetInput": "signal"

},

{

"source": "b8ff64385f38be7c",

"sourceOutput": "value",

"target": "f10a4339d0207584",

"targetInput": "baseFrequency"

},

{

"source": "7e04fb6deb2f873f",

"sourceOutput": "value",

"target": "da6ab80ecf3eb8fe",

"targetInput": "baseFrequency"

},

{

"source": "2628141823d63c1b",

"sourceOutput": "value",

"target": "f96941fe4e5b78d4",

"targetInput": "baseFrequency"

},

{

"source": "0ac7a720c3077da5",

"sourceOutput": "value",

"target": "6e9494d38d8c15e2",

"targetInput": "baseFrequency"

},

{

"source": "b1f29eb8d7c36d3a",

"sourceOutput": "value",

"target": "ce460270432e5af0",

"targetInput": "baseFrequency"

}

]

}

Gated Lo-fi Synth:

{

"nodes": [

{

"id": "d846666dfa8e7ab3",

"name": "Oscillator",

"data": { "baseFreq": 8, "waveform": "sine" }

},

{ "id": "38aad4ea1b0d88a6", "name": "Gain", "data": { "gain": 0.5 } },

{

"id": "4bc6e88cec5c0089",

"name": "Universal Output",

"data": { "gain": 0.5 }

},

{

"id": "52eb245899d77a18",

"name": "Keyboard Note",

"data": {

"octave": 0,

"halfstep": 0,

"waveform": "sawtooth",

"adsrProfile": {

"attack": 0.8,

"attackLength": 0.05,

"decay": 0.7,

"decayLength": 0.1,

"sustain": 0.001,

"sustainLength": 5,

"releaseLength": 1

}

}

},

{ "id": "adc68036bfad583c", "name": "Gain", "data": { "gain": 3 } },

{

"id": "578694f1f533d971",

"name": "Biquad Filter",

"data": {

"freq": 700,

"q": 0.00001,

"gain": 1,

"filterType": "lowpass"

}

},

{

"id": "dccbc20180e96ebb",

"name": "Keyboard Note",

"data": {

"octave": -1,

"halfstep": 0,

"waveform": "square",

"adsrProfile": {

"attack": 0.8,

"attackLength": 0.05,

"decay": 0.7,

"decayLength": 0.1,

"sustain": 0.001,

"sustainLength": 10,

"releaseLength": 1

}

}

},

{

"id": "e02f5d3d1f8b6689",

"name": "Noise",

"data": { "noiseType": "Brown Noise" }

},

{ "id": "a5aeae4be4425a53", "name": "Gain", "data": { "gain": 0.4 } },

{

"id": "2de007ab073014df",

"name": "Biquad Filter",

"data": { "freq": 500, "q": 1, "gain": 0, "filterType": "lowpass" }

},

{

"id": "399fb0e640db56fa",

"name": "Keyboard ADSR",

"data": {

"keyCode": "KeyA",

"adsrProfile": {

"attack": 1,

"attackLength": 0.01,

"decay": 1,

"decayLength": 1,

"sustain": 1,

"sustainLength": 600,

"releaseLength": 0.01

}

}

},

{ "id": "52080b0705e4421e", "name": "Gain", "data": { "gain": 1 } },

{

"id": "4d21914d4cd6727d",

"name": "Constant",

"data": { "value": 0.2 }

},

{ "id": "0c3d15ed235bc486", "name": "Gain", "data": { "gain": -1 } },

{ "id": "8815237422c80a5f", "name": "Gain", "data": { "gain": 0 } }

],

"connections": [

{

"source": "38aad4ea1b0d88a6",

"sourceOutput": "signal",

"target": "4bc6e88cec5c0089",

"targetInput": "signal"

},

{

"source": "d846666dfa8e7ab3",

"sourceOutput": "signal",

"target": "adc68036bfad583c",

"targetInput": "signal"

},

{

"source": "adc68036bfad583c",

"sourceOutput": "signal",

"target": "52eb245899d77a18",

"targetInput": "additionalFrequency"

},

{

"source": "adc68036bfad583c",

"sourceOutput": "signal",

"target": "dccbc20180e96ebb",

"targetInput": "additionalFrequency"

},

{

"source": "e02f5d3d1f8b6689",

"sourceOutput": "signal",

"target": "a5aeae4be4425a53",

"targetInput": "signal"

},

{

"source": "a5aeae4be4425a53",

"sourceOutput": "signal",

"target": "2de007ab073014df",

"targetInput": "signal"

},

{

"source": "578694f1f533d971",

"sourceOutput": "signal",

"target": "52080b0705e4421e",

"targetInput": "signal"

},

{

"source": "4d21914d4cd6727d",

"sourceOutput": "value",

"target": "399fb0e640db56fa",

"targetInput": "signal"

},

{

"source": "399fb0e640db56fa",

"sourceOutput": "signal",

"target": "0c3d15ed235bc486",

"targetInput": "signal"

},

{

"source": "0c3d15ed235bc486",

"sourceOutput": "signal",

"target": "52080b0705e4421e",

"targetInput": "additionalGain"

},

{

"source": "0c3d15ed235bc486",

"sourceOutput": "signal",

"target": "8815237422c80a5f",

"targetInput": "baseGain"

},

{

"source": "52eb245899d77a18",

"sourceOutput": "signal",

"target": "8815237422c80a5f",

"targetInput": "signal"

},

{

"source": "dccbc20180e96ebb",

"sourceOutput": "signal",

"target": "8815237422c80a5f",

"targetInput": "signal"

},

{

"source": "52eb245899d77a18",

"sourceOutput": "signal",

"target": "578694f1f533d971",

"targetInput": "signal"

},

{

"source": "dccbc20180e96ebb",

"sourceOutput": "signal",

"target": "578694f1f533d971",

"targetInput": "signal"

},

{

"source": "52080b0705e4421e",

"sourceOutput": "signal",

"target": "38aad4ea1b0d88a6",

"targetInput": "signal"

},

{

"source": "2de007ab073014df",

"sourceOutput": "signal",

"target": "38aad4ea1b0d88a6",

"targetInput": "signal"

},

{

"source": "8815237422c80a5f",

"sourceOutput": "signal",

"target": "38aad4ea1b0d88a6",

"targetInput": "signal"

}

]

}

Sound of a Jet Engine:

{

"nodes": [

{ "id": "13b244e074c36161", "name": "Gain", "data": { "gain": 0.5 } },

{

"id": "df1ea31217cd0d3f",

"name": "Universal Output",

"data": { "gain": 1 }

},

{

"id": "4e7567fdaecdc876",

"name": "Noise",

"data": { "noiseType": "White Noise" }

},

{

"id": "b4bed39de7465585",

"name": "Biquad Filter",

"data": {

"freq": 8000,

"q": 0.05,

"gain": 0,

"filterType": "bandpass"

}

},

{

"id": "d492ee6c242d5e6e",

"name": "Biquad Filter",

"data": { "freq": 350, "q": 1, "gain": 0, "filterType": "lowpass" }

},

{

"id": "77571354ea323247",

"name": "Constant",

"data": { "value": 0.7 }

},

{ "id": "763e228565b9f512", "name": "Gain", "data": { "gain": 0 } },

{ "id": "f0af810ee58840ce", "name": "Gain", "data": { "gain": 150 } },

{

"id": "48941675dd992cb8",

"name": "Biquad Filter",

"data": { "freq": 120, "q": 1, "gain": 0, "filterType": "highpass" }

},

{ "id": "c349376d35bbdf72", "name": "Gain", "data": { "gain": 120 } },

{

"id": "c9cd6f076b3aae38",

"name": "Clip Signal",

"data": { "amp": 1 }

},

{

"id": "a549b26138870c74",

"name": "Biquad Filter",

"data": {

"freq": 350,

"q": 0.6,

"gain": 0,

"filterType": "lowpass"

}

},

{ "id": "51fcd26e6979318c", "name": "Gain", "data": { "gain": 12000 } },

{

"id": "402b7cfe04966a13",

"name": "Constant",

"data": { "value": 3097 }

},

{ "id": "32808ba55a99c764", "name": "Gain", "data": { "gain": 0 } },

{

"id": "a67f95dd6380e94b",

"name": "Oscillator",

"data": { "baseFreq": 440, "waveform": "sine" }

},

{ "id": "3721892b72b625dc", "name": "Gain", "data": { "gain": 0.25 } },

{ "id": "aeaa0eaf654203e8", "name": "Gain", "data": { "gain": 0.1 } },

{

"id": "e647bfb311648133",

"name": "Clip Signal",

"data": { "amp": 1 }

},

{

"id": "95f1b1f3b36e32b0",

"name": "Constant",

"data": { "value": 4495 }

},

{

"id": "3678cb986646e18a",

"name": "Constant",

"data": { "value": 5588 }

},

{ "id": "0a288cf288e12669", "name": "Gain", "data": { "gain": 0 } },

{

"id": "21a076e9e594572d",

"name": "Oscillator",

"data": { "baseFreq": 440, "waveform": "sine" }

},

{

"id": "d210430fdecea6ec",

"name": "Constant",

"data": { "value": 7471 }

},

{ "id": "d663f381ecf84317", "name": "Gain", "data": { "gain": 0.4 } },

{

"id": "ec1dfd7450a225e3",

"name": "Oscillator",

"data": { "baseFreq": 440, "waveform": "sine" }

},

{

"id": "dd764d6d4cf336eb",

"name": "Constant",

"data": { "value": 11000 }

},

{ "id": "ee6e542e1bd1eceb", "name": "Gain", "data": { "gain": 0 } },

{

"id": "020ca3973b60564f",

"name": "Time Domain Visualizer",

"data": {}

},

{

"id": "44b622038179e9f7",

"name": "Time Domain Visualizer",

"data": {}

},

{

"id": "4bcbaf33a00c655d",

"name": "Frequency Domain Visualizer",

"data": {}

},

{

"id": "ad0e6e24c7cdcbf7",

"name": "Frequency Domain Visualizer",

"data": {}

},

{ "id": "97cd9547432d4607", "name": "Gain", "data": { "gain": 0 } },

{

"id": "c745645da4f055ad",

"name": "Oscillator",

"data": { "baseFreq": 440, "waveform": "sine" }

},

{ "id": "2e4bbd81c72b53e8", "name": "Gain", "data": { "gain": 0 } },

{

"id": "c5969f33dc8e463f",

"name": "Oscillator",

"data": { "baseFreq": 440, "waveform": "sine" }

}

],

"connections": [

{

"source": "4e7567fdaecdc876",

"sourceOutput": "signal",

"target": "b4bed39de7465585",

"targetInput": "signal"

},

{

"source": "b4bed39de7465585",

"sourceOutput": "signal",

"target": "d492ee6c242d5e6e",

"targetInput": "signal"

},

{

"source": "77571354ea323247",

"sourceOutput": "value",

"target": "763e228565b9f512",

"targetInput": "signal"

},

{

"source": "763e228565b9f512",

"sourceOutput": "signal",

"target": "f0af810ee58840ce",

"targetInput": "signal"

},

{

"source": "f0af810ee58840ce",

"sourceOutput": "signal",

"target": "d492ee6c242d5e6e",

"targetInput": "frequency"

},

{

"source": "48941675dd992cb8",

"sourceOutput": "signal",

"target": "c349376d35bbdf72",

"targetInput": "signal"

},

{

"source": "c349376d35bbdf72",

"sourceOutput": "signal",

"target": "c9cd6f076b3aae38",

"targetInput": "signal"

},

{

"source": "77571354ea323247",

"sourceOutput": "value",

"target": "51fcd26e6979318c",

"targetInput": "signal"

},

{

"source": "51fcd26e6979318c",

"sourceOutput": "signal",

"target": "a549b26138870c74",

"targetInput": "frequency"

},

{

"source": "c9cd6f076b3aae38",

"sourceOutput": "signal",

"target": "a549b26138870c74",

"targetInput": "signal"

},

{

"source": "f0af810ee58840ce",

"sourceOutput": "signal",

"target": "48941675dd992cb8",

"targetInput": "frequency"

},

{

"source": "d492ee6c242d5e6e",

"sourceOutput": "signal",

"target": "48941675dd992cb8",

"targetInput": "signal"

},

{

"source": "a549b26138870c74",

"sourceOutput": "signal",

"target": "13b244e074c36161",

"targetInput": "signal"

},

{

"source": "32808ba55a99c764",

"sourceOutput": "signal",

"target": "a67f95dd6380e94b",

"targetInput": "baseFrequency"

},

{

"source": "e647bfb311648133",

"sourceOutput": "signal",

"target": "aeaa0eaf654203e8",

"targetInput": "signal"

},

{

"source": "aeaa0eaf654203e8",

"sourceOutput": "signal",

"target": "13b244e074c36161",

"targetInput": "signal"

},

{

"source": "3678cb986646e18a",

"sourceOutput": "value",

"target": "0a288cf288e12669",

"targetInput": "signal"

},

{

"source": "0a288cf288e12669",

"sourceOutput": "signal",

"target": "21a076e9e594572d",

"targetInput": "baseFrequency"

},

{

"source": "ee6e542e1bd1eceb",

"sourceOutput": "signal",

"target": "ec1dfd7450a225e3",

"targetInput": "baseFrequency"

},

{

"source": "a549b26138870c74",

"sourceOutput": "signal",

"target": "020ca3973b60564f",

"targetInput": "signal"

},

{

"source": "aeaa0eaf654203e8",

"sourceOutput": "signal",

"target": "44b622038179e9f7",

"targetInput": "signal"

},

{

"source": "a549b26138870c74",

"sourceOutput": "signal",

"target": "4bcbaf33a00c655d",

"targetInput": "signal"

},

{

"source": "aeaa0eaf654203e8",

"sourceOutput": "signal",

"target": "ad0e6e24c7cdcbf7",

"targetInput": "signal"

},

{

"source": "13b244e074c36161",

"sourceOutput": "signal",

"target": "df1ea31217cd0d3f",

"targetInput": "signal"

},

{

"source": "3721892b72b625dc",

"sourceOutput": "signal",

"target": "e647bfb311648133",

"targetInput": "signal"

},

{

"source": "d663f381ecf84317",

"sourceOutput": "signal",

"target": "e647bfb311648133",

"targetInput": "signal"

},

{

"source": "21a076e9e594572d",

"sourceOutput": "signal",

"target": "e647bfb311648133",

"targetInput": "signal"

},

{

"source": "77571354ea323247",

"sourceOutput": "value",

"target": "32808ba55a99c764",

"targetInput": "additionalGain"

},

{

"source": "77571354ea323247",

"sourceOutput": "value",

"target": "ee6e542e1bd1eceb",

"targetInput": "additionalGain"

},

{

"source": "77571354ea323247",

"sourceOutput": "value",

"target": "0a288cf288e12669",

"targetInput": "additionalGain"

},

{

"source": "77571354ea323247",

"sourceOutput": "value",

"target": "763e228565b9f512",

"targetInput": "additionalGain"

},

{

"source": "97cd9547432d4607",

"sourceOutput": "signal",

"target": "c745645da4f055ad",

"targetInput": "baseFrequency"

},

{

"source": "402b7cfe04966a13",

"sourceOutput": "value",

"target": "97cd9547432d4607",

"targetInput": "signal"

},

{

"source": "77571354ea323247",

"sourceOutput": "value",

"target": "97cd9547432d4607",

"targetInput": "additionalGain"

},

{

"source": "ec1dfd7450a225e3",

"sourceOutput": "signal",

"target": "d663f381ecf84317",

"targetInput": "signal"

},

{

"source": "a67f95dd6380e94b",

"sourceOutput": "signal",

"target": "3721892b72b625dc",

"targetInput": "signal"

},

{

"source": "c745645da4f055ad",

"sourceOutput": "signal",

"target": "3721892b72b625dc",

"targetInput": "signal"

},

{

"source": "77571354ea323247",

"sourceOutput": "value",

"target": "2e4bbd81c72b53e8",

"targetInput": "additionalGain"

},

{

"source": "dd764d6d4cf336eb",

"sourceOutput": "value",

"target": "2e4bbd81c72b53e8",

"targetInput": "signal"

},

{

"source": "95f1b1f3b36e32b0",

"sourceOutput": "value",

"target": "32808ba55a99c764",

"targetInput": "signal"

},

{

"source": "d210430fdecea6ec",

"sourceOutput": "value",

"target": "ee6e542e1bd1eceb",

"targetInput": "signal"

},

{

"source": "2e4bbd81c72b53e8",

"sourceOutput": "signal",

"target": "c5969f33dc8e463f",

"targetInput": "baseFrequency"

},

{

"source": "c5969f33dc8e463f",

"sourceOutput": "signal",

"target": "d663f381ecf84317",

"targetInput": "signal"

}

]

}

Sound of a Jet Engine (Keyboard Controlled):

{

"nodes": [

{ "id": "13b244e074c36161", "name": "Gain", "data": { "gain": 0.5 } },

{

"id": "df1ea31217cd0d3f",

"name": "Universal Output",

"data": { "gain": 1 }

},

{

"id": "4e7567fdaecdc876",

"name": "Noise",

"data": { "noiseType": "White Noise" }

},

{

"id": "b4bed39de7465585",

"name": "Biquad Filter",

"data": {

"freq": 8000,

"q": 0.05,

"gain": 0,

"filterType": "bandpass"

}

},

{

"id": "d492ee6c242d5e6e",

"name": "Biquad Filter",

"data": { "freq": 350, "q": 1, "gain": 0, "filterType": "lowpass" }

},

{ "id": "763e228565b9f512", "name": "Gain", "data": { "gain": 0 } },

{ "id": "f0af810ee58840ce", "name": "Gain", "data": { "gain": 150 } },

{

"id": "48941675dd992cb8",

"name": "Biquad Filter",

"data": { "freq": 120, "q": 1, "gain": 0, "filterType": "highpass" }

},

{ "id": "c349376d35bbdf72", "name": "Gain", "data": { "gain": 120 } },

{

"id": "c9cd6f076b3aae38",

"name": "Clip Signal",

"data": { "amp": 1 }

},

{

"id": "a549b26138870c74",

"name": "Biquad Filter",

"data": {

"freq": 350,

"q": 0.6,

"gain": 0,

"filterType": "lowpass"

}

},

{ "id": "51fcd26e6979318c", "name": "Gain", "data": { "gain": 12000 } },

{

"id": "402b7cfe04966a13",

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{ "id": "32808ba55a99c764", "name": "Gain", "data": { "gain": 0 } },

{

"id": "a67f95dd6380e94b",

"name": "Oscillator",

"data": { "baseFreq": 440, "waveform": "sine" }

},

{ "id": "3721892b72b625dc", "name": "Gain", "data": { "gain": 0.25 } },

{ "id": "aeaa0eaf654203e8", "name": "Gain", "data": { "gain": 0.1 } },

{

"id": "e647bfb311648133",

"name": "Clip Signal",

"data": { "amp": 1 }

},

{

"id": "95f1b1f3b36e32b0",

"name": "Constant",

"data": { "value": 4495 }

},

{

"id": "3678cb986646e18a",

"name": "Constant",

"data": { "value": 5588 }

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{

"id": "21a076e9e594572d",

"name": "Oscillator",

"data": { "baseFreq": 440, "waveform": "sine" }

},

{

"id": "d210430fdecea6ec",

"name": "Constant",

"data": { "value": 7471 }

},

{ "id": "d663f381ecf84317", "name": "Gain", "data": { "gain": 0.4 } },

{

"id": "ec1dfd7450a225e3",

"name": "Oscillator",

"data": { "baseFreq": 440, "waveform": "sine" }

},

{

"id": "dd764d6d4cf336eb",

"name": "Constant",

"data": { "value": 11000 }

},

{ "id": "ee6e542e1bd1eceb", "name": "Gain", "data": { "gain": 0 } },

{

"id": "020ca3973b60564f",

"name": "Time Domain Visualizer",

"data": {}

},

{

"id": "44b622038179e9f7",

"name": "Time Domain Visualizer",

"data": {}

},

{

"id": "4bcbaf33a00c655d",

"name": "Frequency Domain Visualizer",

"data": {}

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{

"id": "ad0e6e24c7cdcbf7",

"name": "Frequency Domain Visualizer",

"data": {}

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{

"id": "c745645da4f055ad",

"name": "Oscillator",

"data": { "baseFreq": 440, "waveform": "sine" }

},

{ "id": "2e4bbd81c72b53e8", "name": "Gain", "data": { "gain": 0 } },

{

"id": "c5969f33dc8e463f",

"name": "Oscillator",

"data": { "baseFreq": 440, "waveform": "sine" }

},

{

"id": "301305ee57afe633",

"name": "Keyboard ADSR",

"data": {

"keyCode": "KeyA",

"adsrProfile": {

"attack": 0.05,

"attackLength": 0.05,

"decay": 1,

"decayLength": 6,

"sustain": 1,

"sustainLength": 3000,

"releaseLength": 10

}

}

},

{ "id": "8905536753e218ec", "name": "Constant", "data": { "value": 1 } }

],

"connections": [

{

"source": "4e7567fdaecdc876",

"sourceOutput": "signal",

"target": "b4bed39de7465585",

"targetInput": "signal"

},

{

"source": "b4bed39de7465585",

"sourceOutput": "signal",

"target": "d492ee6c242d5e6e",

"targetInput": "signal"

},

{

"source": "763e228565b9f512",

"sourceOutput": "signal",

"target": "f0af810ee58840ce",

"targetInput": "signal"

},

{

"source": "f0af810ee58840ce",

"sourceOutput": "signal",

"target": "d492ee6c242d5e6e",

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"target": "c349376d35bbdf72",

"targetInput": "signal"

},

{

"source": "c349376d35bbdf72",

"sourceOutput": "signal",

"target": "c9cd6f076b3aae38",

"targetInput": "signal"

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{

"source": "51fcd26e6979318c",

"sourceOutput": "signal",

"target": "a549b26138870c74",

"targetInput": "frequency"

},

{

"source": "c9cd6f076b3aae38",

"sourceOutput": "signal",

"target": "a549b26138870c74",

"targetInput": "signal"

},

{

"source": "f0af810ee58840ce",

"sourceOutput": "signal",

"target": "48941675dd992cb8",

"targetInput": "frequency"

},

{

"source": "d492ee6c242d5e6e",

"sourceOutput": "signal",

"target": "48941675dd992cb8",

"targetInput": "signal"

},

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"source": "a549b26138870c74",

"sourceOutput": "signal",

"target": "13b244e074c36161",

"targetInput": "signal"

},

{

"source": "32808ba55a99c764",

"sourceOutput": "signal",

"target": "a67f95dd6380e94b",

"targetInput": "baseFrequency"

},

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"source": "e647bfb311648133",

"sourceOutput": "signal",

"target": "aeaa0eaf654203e8",

"targetInput": "signal"

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"sourceOutput": "signal",

"target": "13b244e074c36161",

"targetInput": "signal"

},

{

"source": "3678cb986646e18a",

"sourceOutput": "value",

"target": "0a288cf288e12669",

"targetInput": "signal"

},

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"source": "0a288cf288e12669",

"sourceOutput": "signal",

"target": "21a076e9e594572d",

"targetInput": "baseFrequency"

},

{

"source": "ee6e542e1bd1eceb",

"sourceOutput": "signal",

"target": "ec1dfd7450a225e3",

"targetInput": "baseFrequency"

},

{

"source": "a549b26138870c74",

"sourceOutput": "signal",

"target": "020ca3973b60564f",

"targetInput": "signal"

},

{

"source": "aeaa0eaf654203e8",

"sourceOutput": "signal",

"target": "44b622038179e9f7",

"targetInput": "signal"

},

{

"source": "a549b26138870c74",

"sourceOutput": "signal",

"target": "4bcbaf33a00c655d",

"targetInput": "signal"

},

{

"source": "aeaa0eaf654203e8",

"sourceOutput": "signal",

"target": "ad0e6e24c7cdcbf7",

"targetInput": "signal"

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"source": "13b244e074c36161",

"sourceOutput": "signal",

"target": "df1ea31217cd0d3f",

"targetInput": "signal"

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"source": "3721892b72b625dc",

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"target": "e647bfb311648133",

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"source": "d663f381ecf84317",

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"source": "21a076e9e594572d",

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{

"source": "97cd9547432d4607",

"sourceOutput": "signal",

"target": "c745645da4f055ad",

"targetInput": "baseFrequency"

},

{

"source": "402b7cfe04966a13",

"sourceOutput": "value",

"target": "97cd9547432d4607",

"targetInput": "signal"

},

{

"source": "ec1dfd7450a225e3",

"sourceOutput": "signal",

"target": "d663f381ecf84317",

"targetInput": "signal"

},

{

"source": "a67f95dd6380e94b",

"sourceOutput": "signal",

"target": "3721892b72b625dc",

"targetInput": "signal"

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"source": "c745645da4f055ad",

"sourceOutput": "signal",

"target": "3721892b72b625dc",

"targetInput": "signal"

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"source": "dd764d6d4cf336eb",

"sourceOutput": "value",

"target": "2e4bbd81c72b53e8",

"targetInput": "signal"

},

{

"source": "95f1b1f3b36e32b0",

"sourceOutput": "value",

"target": "32808ba55a99c764",

"targetInput": "signal"

},

{

"source": "d210430fdecea6ec",

"sourceOutput": "value",

"target": "ee6e542e1bd1eceb",

"targetInput": "signal"

},

{

"source": "2e4bbd81c72b53e8",

"sourceOutput": "signal",

"target": "c5969f33dc8e463f",

"targetInput": "baseFrequency"

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"sourceOutput": "signal",

"target": "d663f381ecf84317",

"targetInput": "signal"

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"target": "763e228565b9f512",

"targetInput": "additionalGain"

},

{

"source": "301305ee57afe633",

"sourceOutput": "signal",

"target": "51fcd26e6979318c",

"targetInput": "signal"

},

{

"source": "301305ee57afe633",

"sourceOutput": "signal",

"target": "97cd9547432d4607",

"targetInput": "additionalGain"

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"target": "ee6e542e1bd1eceb",

"targetInput": "additionalGain"

},

{

"source": "301305ee57afe633",

"sourceOutput": "signal",

"target": "2e4bbd81c72b53e8",

"targetInput": "additionalGain"

},

{

"source": "301305ee57afe633",

"sourceOutput": "signal",

"target": "0a288cf288e12669",

"targetInput": "additionalGain"

}

]

}

Lo-fi synth:

{

"nodes": [

{

"id": "d846666dfa8e7ab3",

"name": "Oscillator",

"data": { "baseFreq": 8, "waveform": "sine" }

},

{ "id": "38aad4ea1b0d88a6", "name": "Gain", "data": { "gain": 0.5 } },

{

"id": "4bc6e88cec5c0089",

"name": "Universal Output",

"data": { "gain": 0.5 }

},

{

"id": "52eb245899d77a18",

"name": "Keyboard Note",

"data": {

"octave": 0,

"halfstep": 0,

"waveform": "sawtooth",

"adsrProfile": {

"attack": 0.8,

"attackLength": 0.05,

"decay": 0.7,

"decayLength": 0.1,

"sustain": 0.001,

"sustainLength": 5,

"releaseLength": 1

}

}

},

{ "id": "adc68036bfad583c", "name": "Gain", "data": { "gain": 3 } },

{

"id": "578694f1f533d971",

"name": "Biquad Filter",

"data": {

"freq": 700,

"q": 0.00001,

"gain": 1,

"filterType": "lowpass"

}

},

{

"id": "dccbc20180e96ebb",

"name": "Keyboard Note",

"data": {

"octave": -1,

"halfstep": 0,

"waveform": "square",

"adsrProfile": {

"attack": 0.8,

"attackLength": 0.05,

"decay": 0.7,

"decayLength": 0.1,

"sustain": 0.001,

"sustainLength": 10,

"releaseLength": 1

}

}

},

{

"id": "e02f5d3d1f8b6689",

"name": "Noise",

"data": { "noiseType": "Brown Noise" }

},

{ "id": "a5aeae4be4425a53", "name": "Gain", "data": { "gain": 0.4 } },

{

"id": "2de007ab073014df",

"name": "Biquad Filter",

"data": { "freq": 500, "q": 1, "gain": 0, "filterType": "lowpass" }

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"connections": [

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"source": "38aad4ea1b0d88a6",

"sourceOutput": "signal",

"target": "4bc6e88cec5c0089",

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"sourceOutput": "signal",

"target": "adc68036bfad583c",

"targetInput": "signal"

},

{

"source": "adc68036bfad583c",

"sourceOutput": "signal",

"target": "52eb245899d77a18",

"targetInput": "additionalFrequency"

},

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"source": "adc68036bfad583c",

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"sourceOutput": "signal",

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"target": "2de007ab073014df",

"targetInput": "signal"

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"source": "2de007ab073014df",

"sourceOutput": "signal",

"target": "38aad4ea1b0d88a6",

"targetInput": "signal"

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"source": "578694f1f533d971",

"sourceOutput": "signal",

"target": "38aad4ea1b0d88a6",

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"source": "dccbc20180e96ebb",

"sourceOutput": "signal",

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"targetInput": "signal"

}

]

}