Musicalgorithms: Testing

Most of the testing for Musicalgorithms 3.0 was done by comparing the output with the output of version 2.0 to ensure that the proper values were being generated. Wolfram Alpha was also used to compare the generated values of our algorithms to insure correctness since we doubled the allowable maximum range from 1000 note counts to 2000.

Voice 1

Input Set:

E Constant ▼ ⓘ

Note Count:

24

Use custom input:

☐

Input:

2,7,1,8,2,8,1,8,2,8,4,5,9,0,4,5,2,3,5,3,6,0,2,8

Voice 2

Input Set:

Phi ▼ ⓘ

Note Count:

24

Use custom input:

☐

Input:

1,6,1,8,0,3,3,9,8,8,7,4,9,8,9,4,8,4,8,2,0,4,5,8

| Welcome | Pitch Input | Duration Input | Pitch Mapping | Duration Mapping | Scale Options | Play |

Voice 1

Input Set: Note Count: 24

E constant ▼ ⓘ   ☐ Use Custom Input

Input/Output:

2, 7, 1, 8, 2, 8, 1, 8, 2, 8, 4, 5, 9, 0, 4, 5, 2, 3, 5, 3, 6, 0, 2, 8

[Generate Output]

Voice 2

Input Set: Note Count: 24

Phi ▼ ⓘ   ☐ Use Custom Input

Input/Output:

1, 6, 1, 8, 0, 3, 3, 9, 8, 8, 7, 4, 9, 8, 9, 4, 8, 4, 8, 2, 0, 4, 5, 8

[Generate Output]

<-Welcome

[Previous]

Duration Input->

[Next]

Voice 1

Compress using:

[Division ▾] ⓘ

Range:

[1]

to:

[88] ⓘ

Output:

20,69,11,78,20,78,11,78,20,78,40,49,88,1,40,49,20,30,49,30,59,1,20,78

Voice 2

Compress using:

[Logarithmic ▾] ⓘ

Range:

[1]

to:

[88] ⓘ

Output:

27,75,27,84,1,53,53,88,84,84,80,62,88,84,88,62,84,62,84,43,1,62,69,84

| Welcome | Pitch Input | Duration Input | Pitch Mapping | Duration Mapping | Scale Options | Play |

Voice 1

Compress by:

[Division ▾] ⓘ Range: [1] to: [88] ⓘ

Output

20, 69, 11, 78, 20, 78, 11, 78, 20, 78, 40, 49, 88, 1, 40,
49, 20, 30, 49, 30, 59, 1, 20, 78

[Generate Output]

Modifications

Replace all: [   ] With: [   ]

☐ Add Silence ⓘ

Value of Silence: [   ]

[Modify]

<-Duration Input

[Previous]

Voice 2

Compress by:

[Logarithmic ▾] ⓘ Range: [1] to: [88] ⓘ

Output

27, 75, 27, 84, 1, 53, 53, 88, 84, 84, 80, 62, 88, 84,
88, 62, 84, 62, 84, 43, 1, 62, 69, 84

[Generate Output]

Modifications

Replace all: [   ] With: [   ]

☐ Add Silence ⓘ

Value of Silence: [   ]

[Modify]

Duration Mapping->

[Next]