

Hirotoshi Uchida

Structure and expression

for Orchestra, electronics, and live electronics

From 2022 Dec. to 2023 Jan.

Table of contents

1. *Piano* for strings and live electronics ⋯ 3
2. *Music box* for piano ⋯ 13
3. *Vibraphone* for 2 clarinets and live electronics ⋯ 14
4. *Sax* for 4 brasses and live electronics ⋯ 15
5. *Trombone* for percussions ⋯ 16
6. *Cello* for electronics ⋯ 28
7. *Synthesizer* for orchestra, electronics, and live electronics ⋯ 31

*1 Please note that due to software limitations, some of the music score may be cut off.

*2 As for the .upic and .iannix files, please download them from my GitHub account. (<https://github.com/Uchida16104/Structure-and-expression>)

Piano for strings and live electronics

Piano

for strings and live electronics

Hirotoshi Uchida

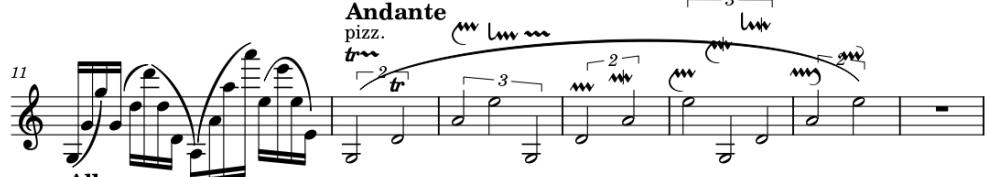
Adagio

arco

*For live electronics, apply chorus, reverb, and delay
to the entire music at the maximum value that won't break the sound.*



Allegro



Adagio



Moderato

pizz.

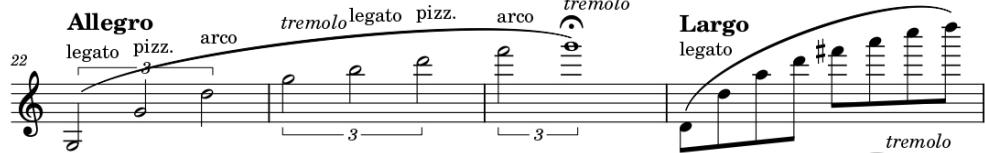
arco

legato

Grave

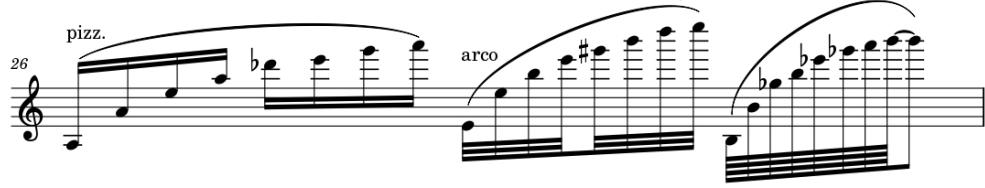


rit.



Largo

legato



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2

27 arco

29 **Allegro**
tremolo 3 arco pizz. legato tremolo arco pizz. legato **Andante**

33

36

pizz.

Moderato Largo

1.

41

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Moderato**Largo**
Moderato Largo**Moderato**

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4

49

Largo

Moderato

51

52

53

pizz.

9

54

Largo

Moderato

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Largo

55

7 7 7 7

Moderato

56

7

7

Largo

57

7 7 7

Moderato **Largo**

58

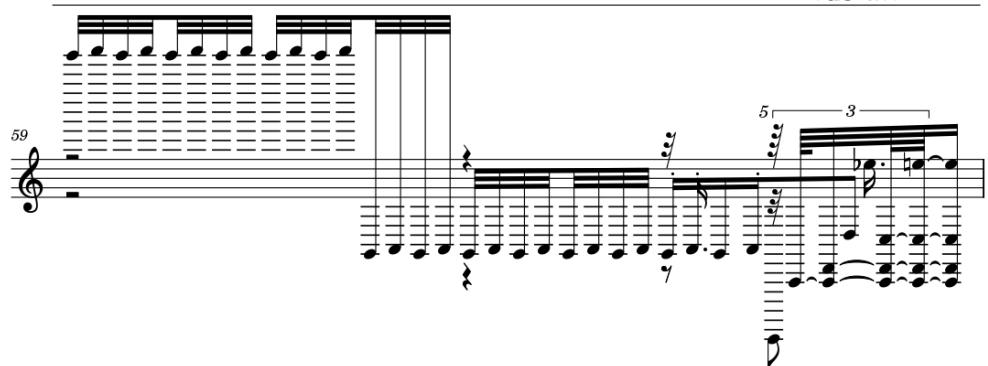
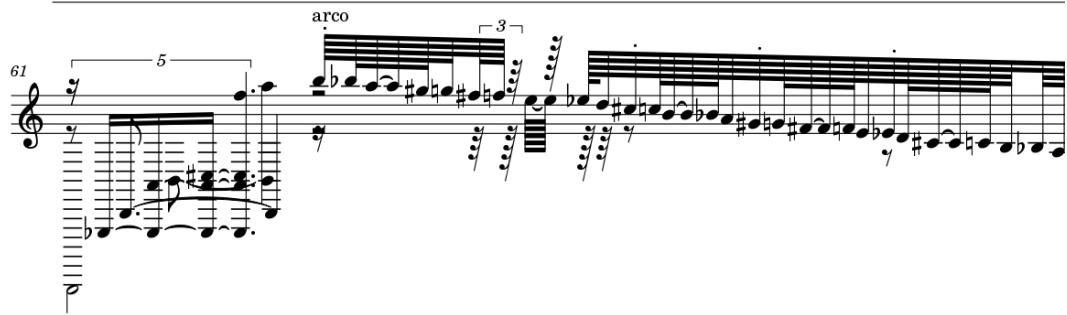
7

5

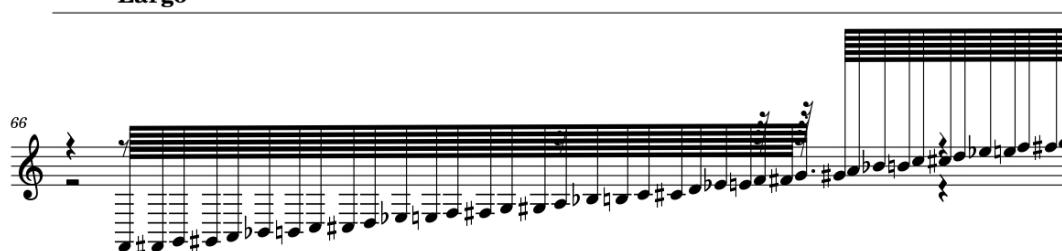
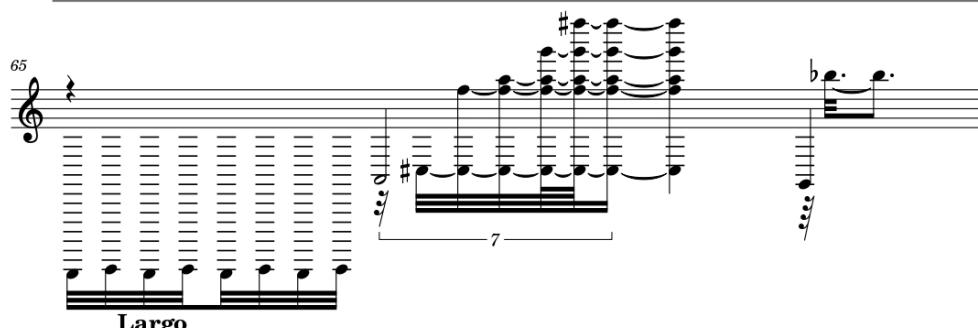
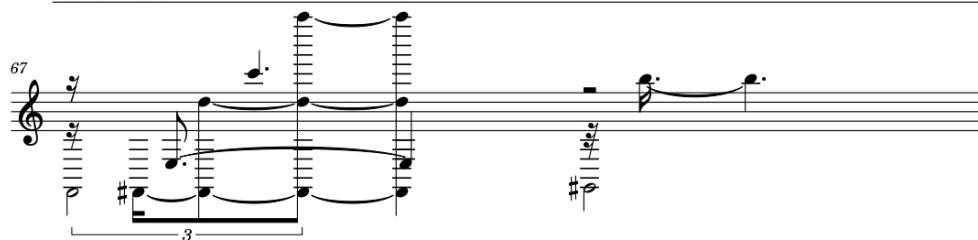
3

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6

Moderato**Largo**

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Moderato**Largo****Moderato****Moderato**

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8

Largo

68

arc
7
3

Moderato

69

3
3

Largo

70

pizz. 3

7
7

71

Moderato

72

3

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74

75

76

Largo

77

78

7 7 7

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10

Moderato

79

9

Largo

80

7 5 7 3

81

Moderato
Largo

5 5

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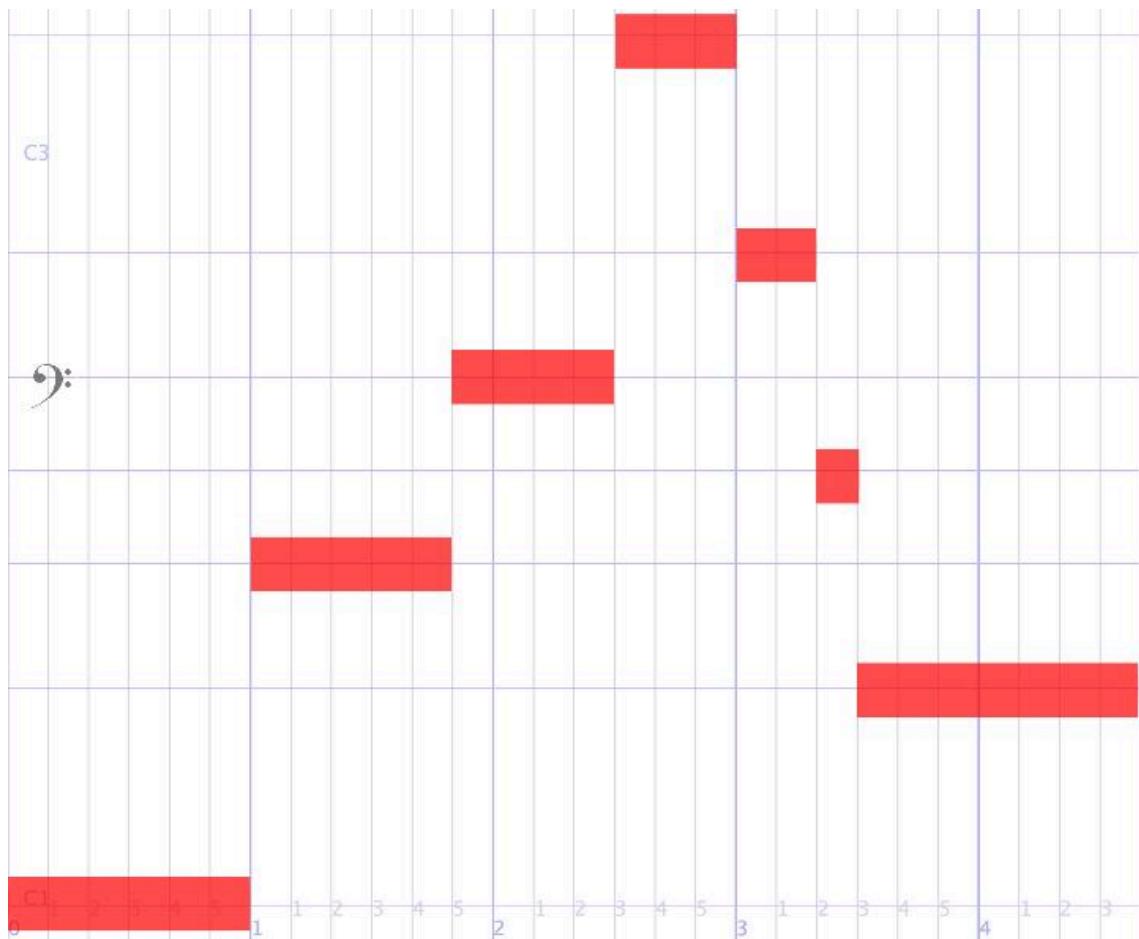
Music box for piano

Graphic score (HighC)



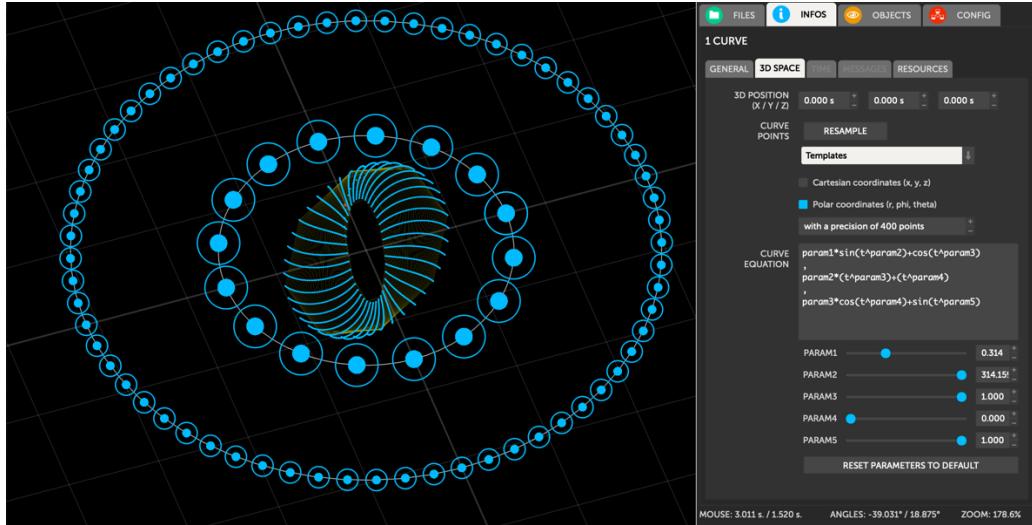
Vibraphone for 2 clarinets and live electronics

Graphic score (HighC)

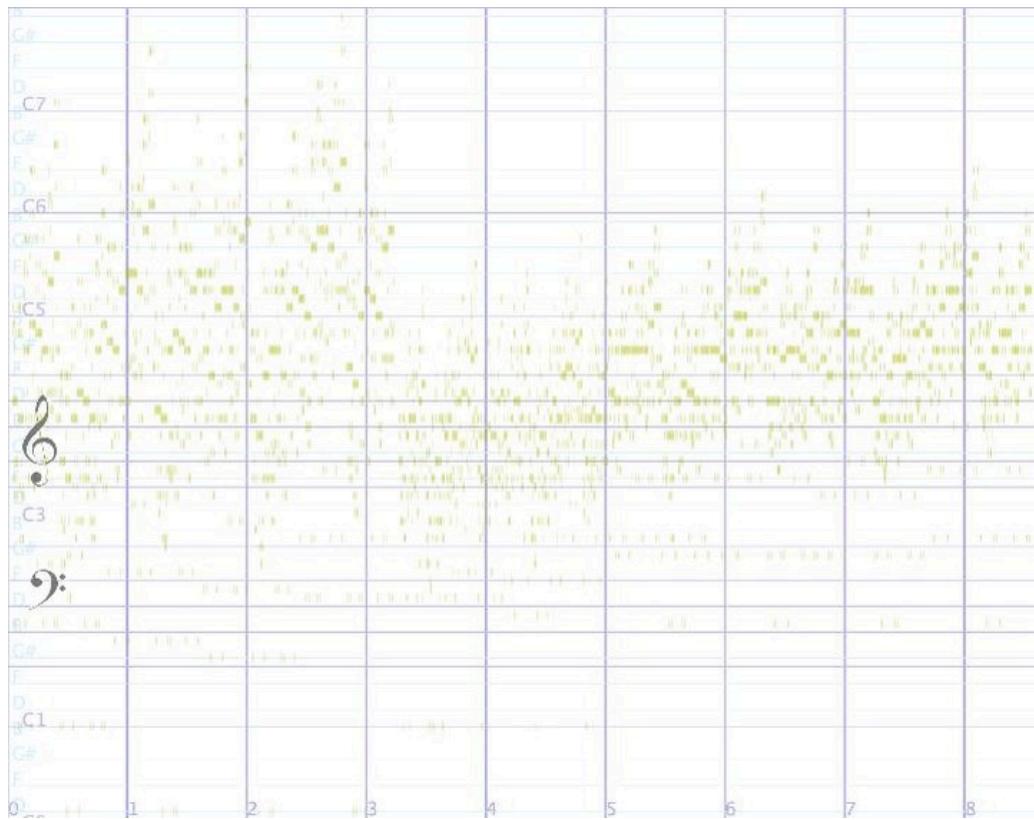


Sax for 4 brasses and live electronics

Graphic score (IanniX)

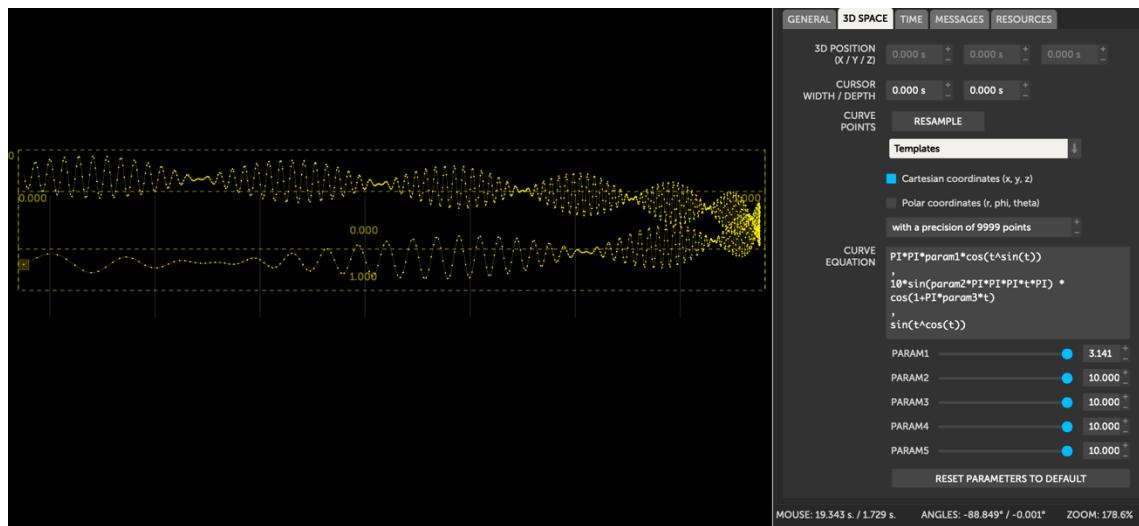


Graphic score (HighC)



Trombone for percussions

Graphic score (IanniX)



Trombone

for percussions

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1

4

7

10

13

16

18

21

24

27

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2

30

33

35

37

39

41

43

45

47

49

51

53

54

55

56

57

58

59

60

61

62

63

64

4

65

66

67

68

69

70

71

72

73

74

75

76

77

78

79

80

81

82

83

84

85

86

87

6

88

89

90

91

92

93

94

95

96

97

98

99

100

7

101

102

103

104

105

106

108

109

111

113

115

8

116

117

118

119

120

121

122

123

124

125

126

127

128

129

130

131

132

133

135

137

139

141

143

145

147

149

151

153

155

10

157

158

159

160

161

162

163

164

165

166

167

168

169

170

171

172

173

174

175

176

177

178

179

180

182

185

188

191

194

198

201

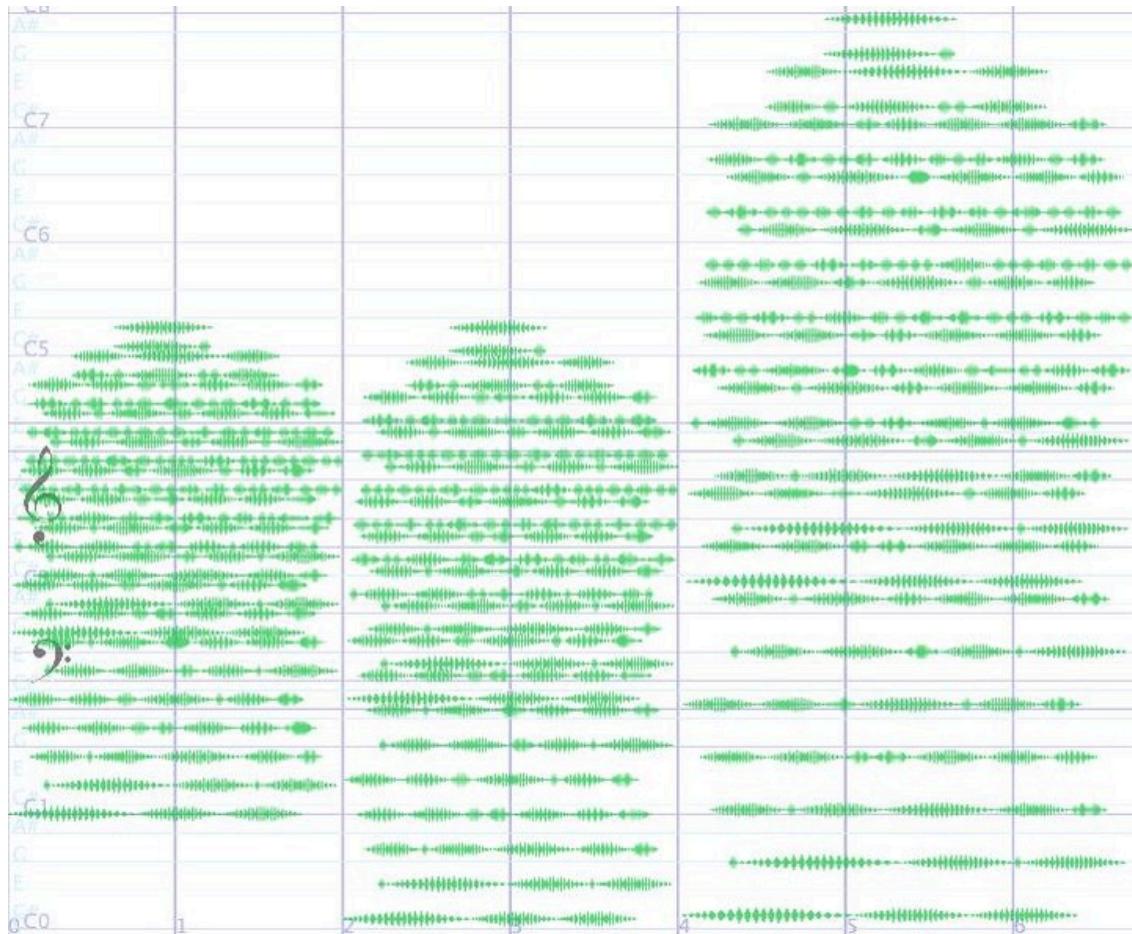
204

208

211

Cello for electronics

Graphic score (HighC)



The three works by *Music box*, *Vibraphone* and *Cello* those are listed above should be run the following code (written on the next page) on Sonic PI about overtone sound source.

```
def overtone(synth,note,init,term,second)
```

```
    use_synth synth
```

```
    for i in init..term
```

```
        j=midi_to_hz(note)*i
```

```
        midi_note_on hz_to_midi(j),amp:2,pan:rdist(1)
```

```
        sleep second
```

```
    end
```

```
end
```

```
def pattern(k,l)
```

```
    k.times do
```

```
        with_fx :gverb,amp:1.1,room:100 do
```

```
            with_fx :ping_pong,amp:3,phase:1 do
```

```
                with_fx :tremolo,depth:1,phase:0.125 do
```

```
                    with_fx :panslicer,phase:0.125 do
```

```
                        overtone(:piano,[l,l+3,l+6,l+9].tick,1,8,[0.125,0.25].tick).tick
```

```
                    end
```

```
                end
```

```
            end
```

end

end

end

4.times do

pattern(4,36)

pattern(4,39) if one_in(2)

pattern(4,42) if one_in(3)

pattern(4,45) if one_in(4)

end

Synthesizer for orchestra, electronics, and live electronics

Synthesizer

for orchestra, electornics, and live electronics

Hirotoshi Uchida

For live electronics, the chorus should be set to the middle value, and the reverb and delay should be set to the maximum value without cracking the sound.

The musical score consists of 21 staves, each representing a different instrument or group of instruments. The instruments listed from top to bottom are: Flute 1, Flute 2, Oboe 1, Oboe 2, B♭ Clarinet 1, B♭ Clarinet 2, Bassoon 1, Bassoon 2, F Horn 1 & 3, F Horn 2 & 4, B♭ Trumpet 1, B♭ Trumpet 2, Trombone 1, Trombone 2, Tuba, Timpani, Snare Drum, Bass Drum, Cymbal, Harp, Violins 1, Violins 2, Violas, Violoncellos, and Contrabasses. The score is divided into three main sections: Adagio, Allegro, and Andante. In the Adagio section, there are performance instructions for the harp, such as 'mf' (mezzo-forte) and dynamic markings like 'b' (bass clef). In the Allegro section, the harp has a more active role with eighth-note patterns and dynamic markings like 'mf'. In the Andante section, the harp continues with eighth-note patterns and dynamic markings like 'mf'. The score concludes with a final section of rests.

Synthesizer (as Electronics from
PIXELSYNTH by Olivia Jack, and
obtaining sound sources from the
works of Prof. Jiro Ishihara)

Hirotoshi Uchida

Adagio

Fl. 1

Fl. 2

Ob. 1

Ob. 2

B♭ Cl. 1

B♭ Cl. 2

Bsn. 1

Bsn. 2

F Hn. 1 3

F Hn. 2 4

B♭ Tpt. 1

B♭ Tpt. 2

Tbn. 1

Tbn. 2

Tba.

Tim.

Sn. Dr.

B. Dr.

Cym.

Hrp.

Vlns. 1

Vlns. 2

Vlas.

Vcs.

Cbs.

Synth. (Elec.)

Adagio

15

Fl. 1
Fl. 2
Ob. 1
Ob. 2
Bb Cl. 1
Bb Cl. 2
Bsn. 1
Bsn. 2
F Hn. 1 3
F Hn. 2 4
Bb Tpt. 1
Bb Tpt. 2
Tbn. 1
Tbn. 2
Tba.
Timp.
Sn. Dr.
B. Dr.
Cym.
Hrp.
Vlns. 1
Vlns. 2
Vlas.
Vcs.
Cbs.
Synth. (Elec.)

Prestissimo

Fl. 1

Fl. 2

Ob. 1

Ob. 2

B♭ Cl. 1

B♭ Cl. 2

Bsn. 1

Bsn. 2

F Hn. 1 3

F Hn. 2 4

B♭ Tpt. 1

B♭ Tpt. 2

Tbn. 1

Tbn. 2

Tba.

Timp.

Sn. Dr.

B. Dr.

Cym.

Hrp.

Vlns. 1

Vlns. 2

Vlas.

Vcs.

Cbs.

Synth. (Elec.)

27 *Grave*

Fl. 1
Fl. 2
Ob. 1
Ob. 2
Bb Cl. 1
Bb Cl. 2
Bsn. 1
Bsn. 2
F Hn. 1 3
F Hn. 2 4
Bb Tpt. 1
Bb Tpt. 2
Tbn. 1
Tbn. 2
Tba.
Timp.
Sn. Dr.
B. Dr.
Cym.
Hrp.
Vlns. 1
Vlns. 2
Vlas.
Vcs
Cbs.
Synth. (Elec.)

f
Grave
mf

28

Adagio

Fl. 1

Fl. 2

Ob. 1

Ob. 2

B♭ Cl. 1

B♭ Cl. 2

Bsn. 1

Bsn. 2

F Hn. 1 3

F Hn. 2 4

B♭ Tpt. 1

B♭ Tpt. 2

Thn. 1

Thn. 2

Tba.

Timp.

Sn. Dr.

B. Dr.

Cym.

Hrp.

Vlns. 1

Vlns. 2

Vlas.

Vcs.

Cbs.

Synth. (Elec.)

Adagio

40

Fl. 1
Fl. 2
Ob. 1
Ob. 2
Bb Cl. 1
Bb Cl. 2
Bsn. 1
Bsn. 2
F Hn. 1 3
F Hn. 2 4
Bb Tpt. 1
Bb Tpt. 2
Tbn. 1
Tbn. 2
Tba.
Timp.
Sn. Dr.
B. Dr.
Cym.
Hrp.
Vlns. 1
Vlns. 2
Vlas.
Vcs.
Cbs.
Synth. (Elec.)

45

Fl. 1
Fl. 2
Ob. 1
Ob. 2
B♭ Cl. 1
B♭ Cl. 2
Bsn. 1
Bsn. 2
F Hn. 1 3
F Hn. 2 4
B♭ Tpt. 1
B♭ Tpt. 2
Tbn. 1
Tbn. 2
Tba.
Timp.
Sn. Dr.
B. Dr.
Cym.
Hrp.
Vlns. 1
Vlns. 2
Vlas.
Vcs
Cbs.
Synth. (Elec.)

9

10

49

Adagio

Fl. 1
Fl. 2
Ob. 1
Ob. 2
B♭ Cl. 1
B♭ Cl. 2
Bsn. 1
Bsn. 2
F Hn. 1 3
F Hn. 2 4
B♭ Tpt. 1
B♭ Tpt. 2
Tbn. 1
Tbn. 2
Tba.
Tim.
Sn. Dr.
B. Dr.
Cym.
Hrp.

Allegro

Vlns. 1
Vlns. 2
Vlas.
Vcs.
Cbs.
Synth. (Elec.)

Adagio

pizz.

pizz.

57 **Andante**

Fl. 1
Fl. 2
Ob. 1
Ob. 2
B♭ Cl. 1
B♭ Cl. 2
Bsn. 1
Bsn. 2

F Hn. 1 3
F Hn. 2 4
B♭ Tpt. 1
B♭ Tpt. 2
Tbn. 1
Tbn. 2
Tba.

Timp.

Sn. Dr.
B. Dr.
Cym.

Hrp.

Adagio

Vlns. 1
Vlns. 2
Vlas.
Vcs.
Cbs.

Synth. (Elec.)

12

64

Fl. 1
Fl. 2
Ob. 1
Ob. 2
Bb Cl. 1
Bb Cl. 2
Bsn. 1
Bsn. 2
F Hn. 1 3
F Hn. 2 4
Bb Tpt. 1
Bb Tpt. 2
Tbn. 1
Tbn. 2
Tba.
Timp.
Sn. Dr.
B. Dr.
Cym.
Hrp.
Vlns. 1
Vlns. 2
Vlas.
Vcs.
Cbs.
Synth. (Elec.)

70

Prestissimo

Fl. 1

Fl. 2

Ob. 1

Ob. 2

B♭ Cl. 1

B♭ Cl. 2

Bsn. 1

Bsn. 2

F Hn. 1 3

F Hn. 2 4

B♭ Tpt. 1

B♭ Tpt. 2

Thn. 1

Thn. 2

Tba.

Timp.

Sn. Dr.

B. Dr.

Cym.

Hrp.

Vlns. 1

Vlns. 2

Vlas.

Vcs.

Cbs.

Synth. (Elec.)

76

Fl. 1
Fl. 2
Ob. 1
Ob. 2
Bb Cl. 1
Bb Cl. 2
Bsn. 1
Bsn. 2
F Hn. 1 3
F Hn. 2 4
Bb Tpt. 1
Bb Tpt. 2
Tbn. 1
Tbn. 2
Tba.
Timp.
Sn. Dr.
B. Dr.
Cym.
Hrp.
Vlns. 1
Vlns. 2
Vlas.
Vcs.
Cbs.
Synth. (Elec.)

79 **Grave**

Fl. 1
Fl. 2
Ob. 1
Ob. 2
Bb Cl. 1
Bb Cl. 2
Bsn. 1
Bsn. 2
F Hn. 1 3
F Hn. 2 4
Bb Tpt. 1
Bb Tpt. 2
Tbn. 1
Tbn. 2
Tba.
Timp.
Sn. Dr.
B. Dr.
Cym.
Hrp. **Grave**
Vlns. 1
Vlns. 2
Vlas.
Vcs.
Cbs.
Synth. (Elec.)

16

Adagio

Fl. 1
Fl. 2
Ob. 1
Ob. 2
B♭ Cl. 1
B♭ Cl. 2
Bsn. 1
Bsn. 2

F Hn. 1 3
F Hn. 2 4
B♭ Tpt. 1
B♭ Tpt. 2
Tbn. 1
Tbn. 2
Thba.
Timp.

Sn. Dr.
B. Dr.
Cym.

Hrp.

Vlns. 1
Vlns. 2
Vlas.
Vcl.
Cbs.

Synth. (Elec.)

Adagio

Adagio

82

Allegro

Grave
Fade out over two bars.

Fl. 1

Fl. 2

Ob. 1

Ob. 2

B♭ Cl. 1

B♭ Cl. 2

Bsn. 1

Bsn. 2

F Hn. 1 3

F Hn. 2 4

B♭ Tpt. 1

B♭ Tpt. 2

Tbn. 1

Tbn. 2

Tba.

Timp.

Sa. Dr.

B. Dr.

Cym.

Hrp.

Vlns. 1

Vlns. 2

Vlas.

Vcs.

Cbs.

Synth. (Elec.)

Allegro

Grave

tremolo

pizz.

pizz.

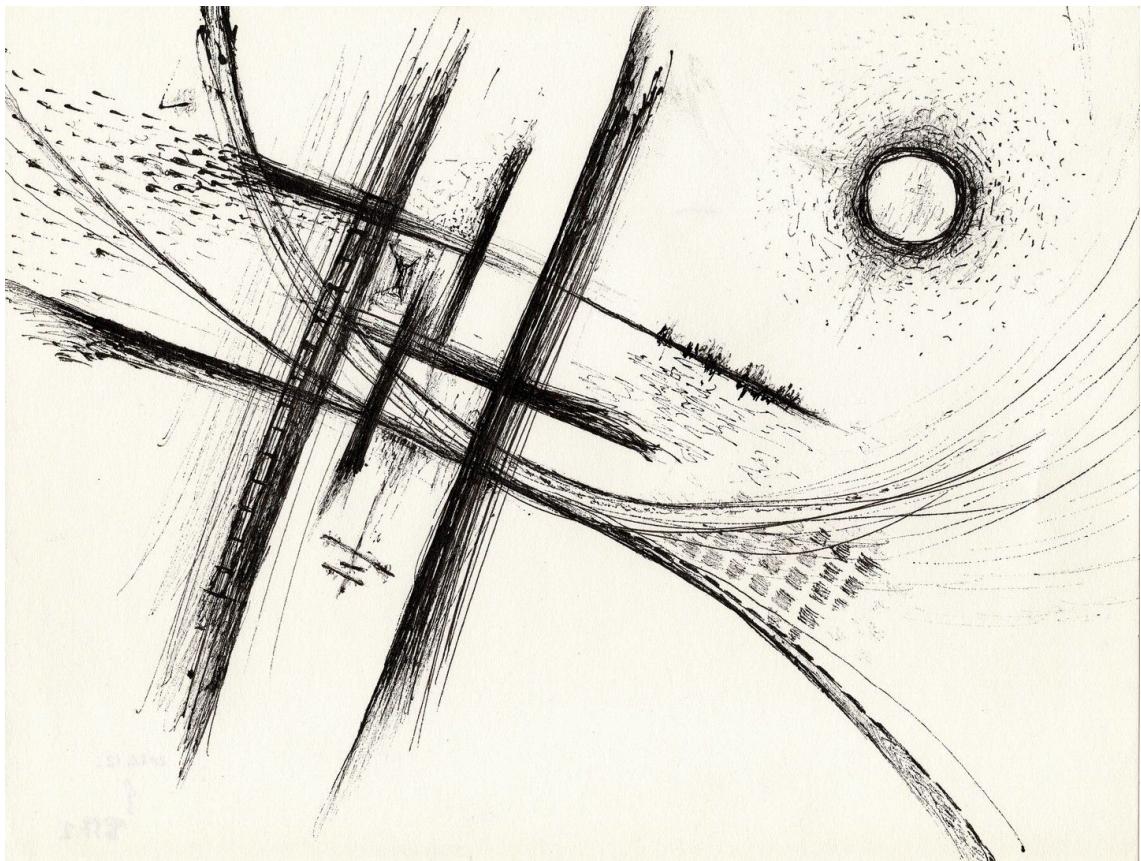
arco

arco

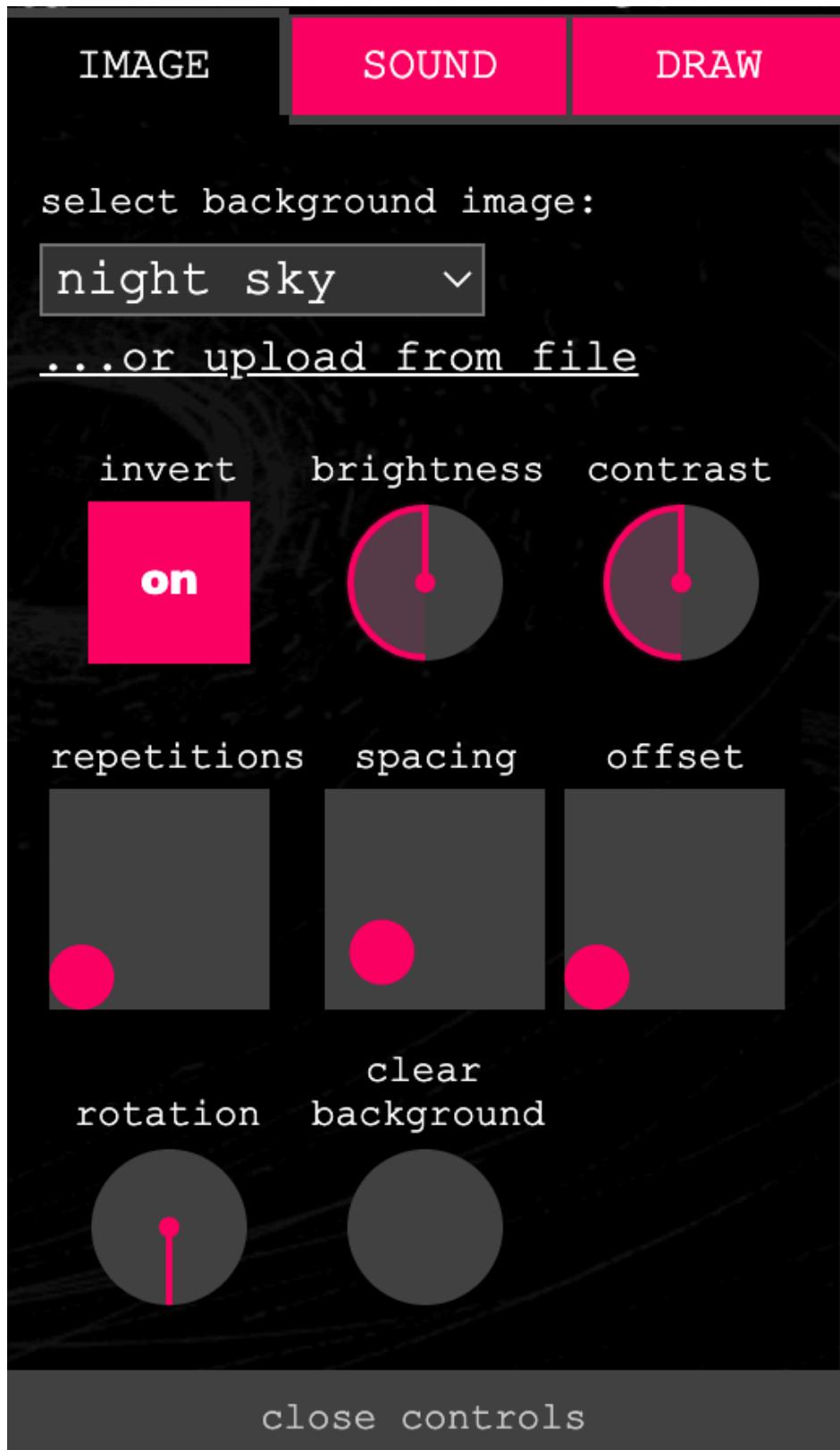
Open [PIXELSYNTH](#) on your browser.



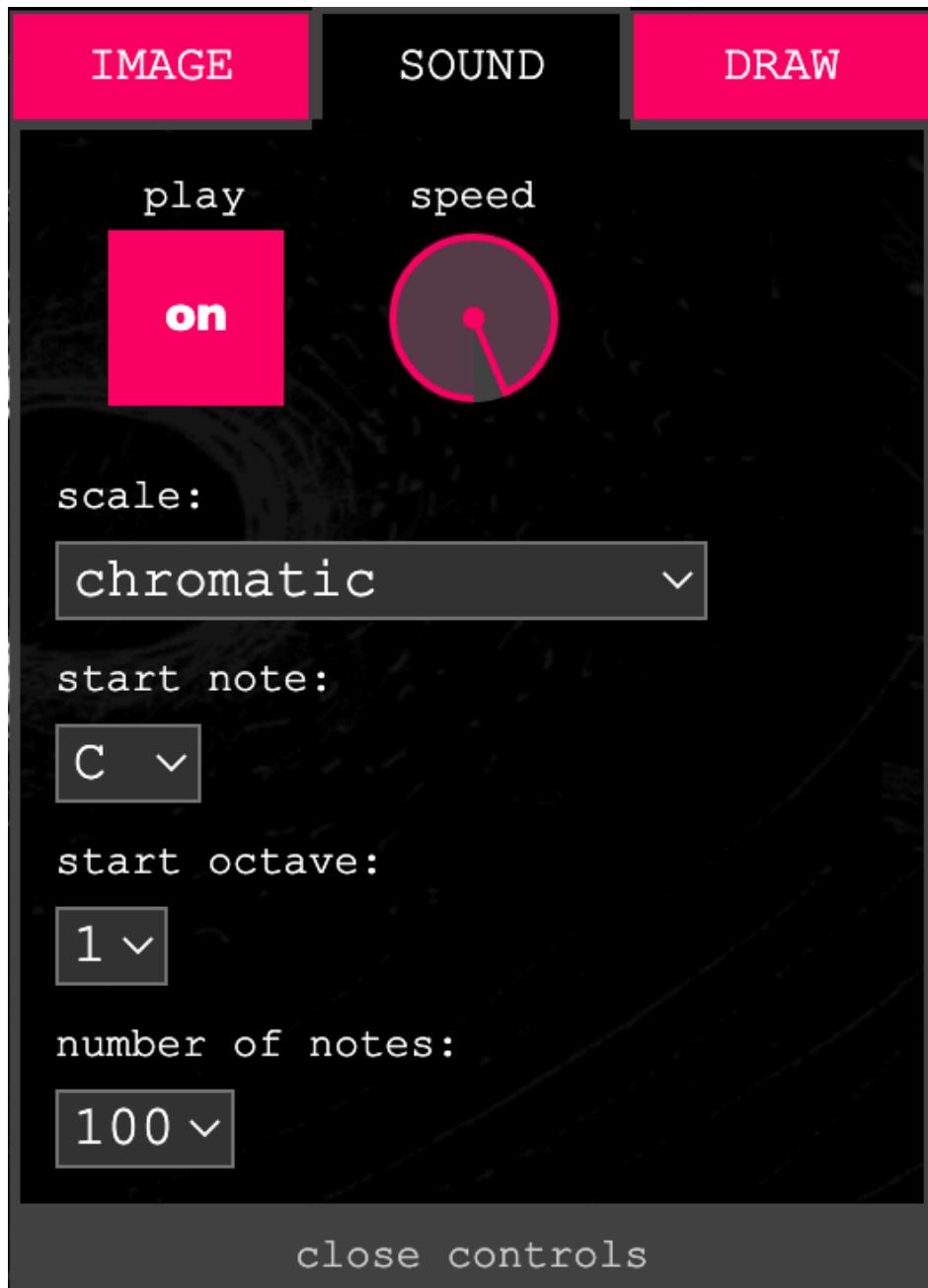
Get the following art work by Jiro Ishihara from [Instagram](#).



Insert the image by clicking “...or upload from file”.



Adjust each menu as follows, and keep the "play" section "on" throughout the time the note is listed about electronics.



IMAGE

SOUND

DRAW

stroke
width

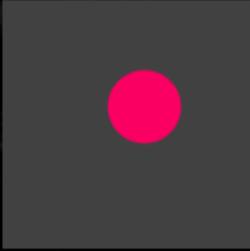
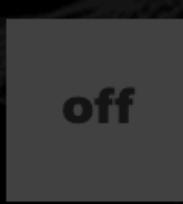
stroke
repetitions

stroke
opacity



stroke offset

eraser



clear
drawing



close controls