

Corona

for Piano,
Interactive Electronics,
Interactive Video and
Gesture Tracking

by

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Duration 9':15"

Corona Performance Notes

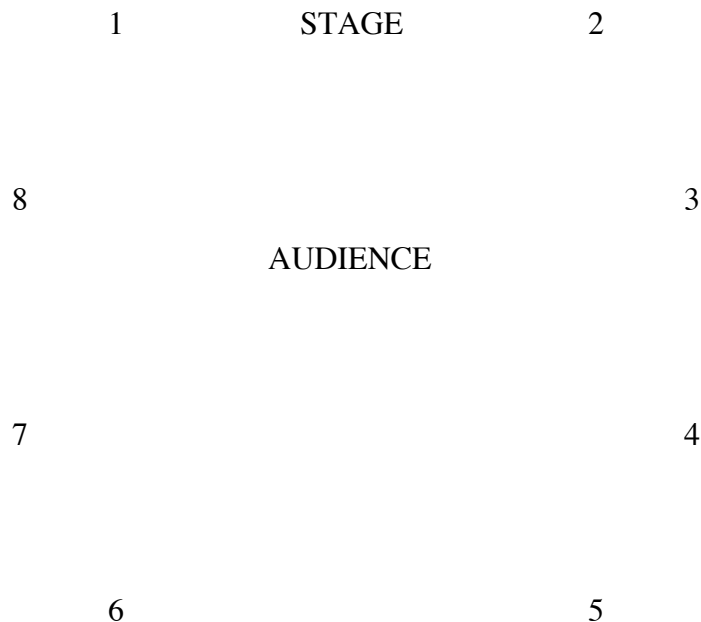
Corona uses 2 networked computers –

1 computer (Macbook Pro) running a MaxMSP patch connected to an 8 channel audio interface,

1 computer (Macbook Pro) running video connected to a stereo audio interface,

2 condenser microphones on the piano are feed to both audio interfaces (computer 1 for live processing of the piano sound, computer 2 for live generation of video from the piano sound)

8 channel diffusion is preferred, but 4 channel diffusion is acceptable with speakers places around the audience. Speakers are numbered as below:



A web camera (Logitech C920) is mounted on a photography frame above the piano keyboard and connected to computer 1 via a long USB cable. A multimedia projector is connected to computer 2 – projection resolution of the video is 1920 X 1200 or 1920 X 1080.

The composer will bring 2 computers, the web camera, the camera frame, the USB extension cord, 2 audio interfaces, USB hub, midi mixer.

♩ = 120

MIDI score for the first section of a piece, showing piano and video tracks. The score is in 4/4 time with a tempo of 120. The piano part consists of two staves (treble and bass clef). The video track includes triggers for 'section -1' and 'section 0'. The score is annotated with various triggers and parameters:

- Max 1:** `simOnOff 0` (0.389), `glassLow 12;`, `glassHigh 16;`, `lowPianoGate 0;` (2.795), `randomToggle1_1 1;`, `rotateToggle2_1 1;` (0.397)
- Max 2:** `homeToggle1_1 1;`, `homeToggle2_1 1;` (0.361), `trigger1Gate 1;`, `trigger2Gate 1;`, `filterOnOff 0;`, `filterOnOff_1 0;` (2.806), `gatherCount 6;`, `gatherArray 0 2 4 5 7 9` (0.893), `startSim bang` (0.914), `matrixPreset 1` (2.471), `ssPartials 1 1;`, `ssPartials_1 1 1;` (2.622)
- Notes:** `loadSamples1 bang;` (1.900), `auRecallPreset khDrone1;`, `auRecallPreset_1 khBlur1;` (2.662)
- Video:** `section -1` (1.000), `section 0` (2.500) shows corona

MIDI score for the second section of a piece, showing piano and video tracks. The score is in 4/4 time. The piano part consists of two staves (treble and bass clef). The video track includes a trigger for 'nextSection 2'. The score is annotated with dynamic markings and a section trigger:

- Piano:** *mp*, *con pedale*, *(vary dynamics gradually ad lib.)*
- Video:** `nextSection 2` (2.752)

4

Max 1

Max 2

Notes

Video

7

Max 1

Max 2

Notes

Video

10

Max 1

Max 2

Notes

Video

13

Max 1

Max 2

Notes

Video

16

2

Max 1

4/4

4/4

0.000

ssPartials 1 1 2 1 3 .5;
ssPartials_1 1 1 2 .8 3 .2;

Max 2

4/4

4/4

1.250

simLow bang

Notes

4/4

4/4

8

Video

4/4

4/4

1.250

simSection 4

19

Max 1

Max 2

Notes

4/4

4/4

8

Video

22

Max 1

```

0.000
gatherCount 7;
gatherArray 0 2 4 5 7 9 10;
glassLow 14;

```

Max 2

```

0.352
matrixPreset 2
1.013
simLow bang

```

Notes

Video

```

0.209
nextSection 5
1.000
simSection 5

```

25

Max 1

```

0.000
ssPartials 1 1 2 1 3 1 4 .5;
ssPartials_1 1 1 2 .8 3 .4 4 .2;

```

Max 2

Notes

Video

28

Max 1

Max 2

Notes

Video

1.575
nextSection 6

31

Max 1

Max 2

Notes

Video

0.294
gatherCount 7;
gatherArray 0 2 4 5 7 9 10;
glassLow 18

4

1.000
simLow bang

1.000
simSection 6

34

Max 1

Max 2

Notes

Video

0.000

ssPartials 1 1 2 1 3 1 4 .1 5 .4;
ssPartials_1 1 1 2 .8 3 .6 4 .3 5 .2;

e

e

8

37

Max 1

Max 2

Notes

Video

0.000

gatherCount 6;
gatherArray 0 2 5 7 9 10;
glassLow 14

0.354

matrixPreset 3

0.400

nextSection 7

e

o

8

40

5

2

Max 1

Max 2

Notes

Video

1.000
simLow bang

1.000
simSection 7 balls and sticks

43

Max 1

Max 2

Notes

Video

46

Max 1

Max 2

Notes

Video

49

Max 1

Max 2

Notes

Video

52

Max 1

Max 2

Notes

Video

55

Max 1

Max 2

Notes

Video

58

Max 1

```
[0.000]
ssPartials 1 1 2 .3;
ssPartials 1 1 1 2 .5;
```

Max 2

Notes

Video

61

Max 1

```
[0.000]
gatherCount 6;
gatherArray 0 2 4 5 9 11;
glassLow 12;
```

Max 2

Notes

Video

```
[0.223]
nextSection 10
```

64

Max 1

Max 2

Notes

Video

67

Max 1

Max 2

Notes

Video

70

Max 1

Max 2

Notes

Video

0.000
gatherCount 6;
gatherArray 0 2 4 7 8 11;
glassLow 12;

0.250
matrixPreset 5

1.000
simLow bang

0.329
loadSamples1 bang.

0.400
nextSection 11

1.000
simSection 11 corona in 12 - auto

73

Max 1

Max 2

Notes

Video

0.000
ssPartials 1 1 2 1 3 1 4 1 5 1;
ssPartials_1 1 1 2 .5 3 .35 4 .2;

76

Max 1

Max 2

Notes

Video

0.542
nextSection 13

79

Max 1

Max 2

Notes

Video

0.500
gatherCount 6;
gatherArray 0 2 4 5 7 10;
glassLow 12

10

1.000
simLow bang

1.000
simSection 13

- corona out planets slow [14 auto]

82

Max 1

Max 2

Notes

Video

85

Max 1

Max 2

Notes

Video

88

11

Max 1

Max 2

Notes

Video

1.000
simLow bang

0.000
matrixPreset 6

1.000
simSection 15

91

Max 1

Max 2

Notes

Video

94

Max 1

Max 2

Notes

Video

0.000
gatherCount 6;
gatherArray 0 1 3 5 8 10;
glassLow 15;

1.000
simLow bang

0.302
nextSection 16

1.000
simSection 16

97

Max 1

Max 2

Notes

Video

0.000
ssPartials 1 1 2 1 3 1 4 1 5 .6 6 .3;
ssPartials_ 1 1 1 2 1 3 .5 4 .2 5 .1 6 .1;

1.000
b

100

Max 1

Max 2

Notes

Video

0.223
nextSection 17

103

Max 1

Max 2

Notes

Video

0.000
gatherCount 7;
gatherArray 0 1 3 5 7 8 10;
glassLow 12;

13

1.000
simLow bang

1.000
simSection 17

112

14

Max 1

4/4

0.000

ssPartials 1 1 2.73 .5;
ssPartials 1 1 1.414 .5;

Max 2

4/4

1.000

simLow bang

Notes

4/4

8

Video

4/4

1.000

simSection 18

115

Max 1

Max 2

Notes

4/4

8

Video

118

Max 1

Max 2

Notes

Video

0.054 nextSection 19

0.000 gatherCount 6; gatherArray 0 3 5 7 8 10; glassLow 16;

1.000 simLow bang

1.000 simSection 19

121

Max 1

Max 2

Notes

Video

0.250 ssPartials 1 1 2 1 3 1; ssPartials_1 1 1 2 1 3 1;

22

124

Max 1

Max 2

Notes

Video

0.250
loadSamples1 bang;

0.498
nextSection 20

127

16

Max 1

Max 2

Notes

Video

0.000
gatherCount 6;
gatherArray 0 1 3 5 8 10;
glassLow 16;

0.345
glassHigh 14

1.000
simHigh bang

1.000
simLow bang

0.000
matrixPreset 8

1.000
simSection 20

130

Max 1

0.000
ssPartials 1 1 2 1 3 1 4 .6 5 .4 ;
ssPartials 1 1 1 2 1 3 1 4 .3 5 .2 6 .1 ;

0.500
simHigh bang

Max 2

0.547
chimeGate 1;

Notes

Video

4/4

4/4

4/4

4/4

8

133

Max 1

0.574
glassHigh 18

0.500
simHigh bang

Max 2

Notes

Video

4/4

4/4

4/4

8

24

136

Max 1

Max 2

Notes

Video

139

Max 1

Max 2

Notes

Video

Annotations:

- 0.250: nextSection 21
- 1.797: chimeGate 0;
- 0.000: gatherCount 7; gatherArray 0 1 3 5 7 8 10; glassLow 18;

142

17

Max 1

Max 2

Notes

Video

0.000
ssPartials 1 1 2 1 3 1;
ssPartials 1 1 1 2 1;

1.000
simLow bang

0.000
matrixPreset 9

1.000
simSection 21

145

Max 1

Max 2

Notes

Video

26

148

Max 1

Max 2

Notes

Video

8

151

Max 1

Max 2

Notes

Video

8

154

18

0.000
gatherCount 6;
gatherArray 0 1 5 7 8 10;
glassLow 12;

1.000
simLow bang

0.164
nextSection 22

1.000
simSection 22

157

0.000
ssPartials 1 1 2 1 3 .8 4 .6 5 .3;
ssPartials_1 1 1 2 .7 3 .5 4 .4 5 .1;

0.250
matrixPreset 10

160

Max 1

Max 2

Notes

Video

8

163

Max 1

Max 2

Notes

Video

8

0.231

nextSection 23

166

19

Max 1
 0.000
 gatherCount 6;
 gatherArray 0 1 3 6 8 10;
 glassLow 14;

Max 2
 1.000
 simLow bang

Notes

Video
 1.000
 simSection 23 corona in - section 24 auto

169

[F]

Max 1
 1.500
 simHigh bang

Max 2
 0.000
 ssPartials 1 1 2 1 3.25 .6;
 ssPartials_ 1 1 1 2.5 .8;

Notes

Video
 0.605
 glassHigh 18

CORONA IN HERE.....

30

Max 1: 1.500 simHigh bang; 0.000 gatherCount 6; gatherArray 0 1 3 6 8 10; glassLow 14;

Notes: 0.000 loadSamples2 bang;

Video: 2.376 nextSection 25; corona out - 26 auto

Max 1: 0.286 chimeGate 0;

Max 2: 1.000 simLow bang; 0.000 matrixPreset 11

Notes: (Handwritten blue notes and 'oo' in the treble clef)

Video: 1.000 simSection 25; CORONA OUT NOW...

178

Max 1
 [0.000]
 ssPartials 1 1 2 1 3 .8 4 .3;
 ssPartials 1 1 1 2 .7 3 .5;

Max 2

Notes
 SLOW DOWN HERE..... WAIT FOR CORONA TO DISAPPEAR

Video
 8

181

Max 1
 [0.000]
 gatherCount 6;
 gatherArray 0 3 5 6 8 10;
 glassLow 12;

Max 2
 [1.000]
 simLow bang

Notes
 [0.000]
 loadSamples3 bang;
 8 be

Video
 [0.236]
 nextSection 27
 [1.000]
 simSection 27

21

32

184

Max 1

Max 2

Notes

Video

0.000
matrixPreset 12

187

Max 1

Max 2

Notes

Video

0.000
loadSamples2 bang;

0.176
nextSection 28

190

22

0.000
gatherCount 6;
gatherArray 0 1 3 6 8 10;
glassLow 18;

0.000
ssPartials 1 1 2 1 3 .8;
ssPartials 1 1 1 2 .7;

1.000
simLow bang

1.000
section 28

193

34

Musical score for measures 196-200. The score includes piano accompaniment (Grand Staff), two Max/MSP tracks (Max 1, Max 2), a Notes track, and a Video track. The piano part features a complex rhythmic pattern with eighth and sixteenth notes. The Max 1 track contains a box with the following code: `0.250`, `gatherCount 6;`, `gatherArray 0 1 3 7 8 10;`, and `glassLow 12;`. The Video track contains a box with `0.090` and `nextSection 29`. Time signatures change from 4/4 to 7/8 and back to 4/4.

Musical score for measures 199-203. The score includes piano accompaniment (Grand Staff), two Max/MSP tracks (Max 1, Max 2), a Notes track, and a Video track. The piano part continues with complex rhythmic patterns. The Max 2 track contains boxes with `1.000` and `simLow bang`, and `0.000` and `matrixPreset 13`. The Notes track shows a sequence of notes in blue. The Video track contains a box with `1.000` and `simSection 29`. A box with the number `23` is present in the piano part. Time signatures are 4/4.

202

Max 1

Max 2

Notes

Video

0.000
ssPartials 1 1 2 .3;
ssPartials 1 1 1 2 .5;

8

205

Max 1

Max 2

Notes

Video

0.000
gatherCount 6;
gatherArray 2 3 5 7 8 10;
glassLow 14;

1.000
simLow bang

0.014
nextSection 30

1.000
simSection 30

24

8

36

208

Max 1

Max 2

Notes

Video

0.000
matrixPreset 15

211

Max 1

Max 2

Notes

Video

0.000
nextSection 29

214

25

0.000

```
gatherCount 6;  
gatherArray 0 2 3 5 7 10;  
glassLow 17;
```

0.000

```
ssPartials 1 1 2 .7 3 .5;  
ssPartials 1 1 1 2 .6 3 .4;
```

1.000

simLow bang

1.000

simSection 29

217

220

Max 1

Max 2

Notes

Video

223

Max 1

Max 2

Notes

Video

226

Max 1

Max 2

Notes

Video

229

27

0.000

gatherCount 6;
gatherArray 0 2 5 7 9 10;
glassLow 14;

1.000

simLow bang

0.000

nextSection 31

1.000

simSection 231

Max 1

Max 2

Notes

Video

232

Max 1

0.000
ssPartials 1 1 2 .7 3 .5 4 .2 5 .1;
ssPartials 1 1 1 2 .6 3 .4 4 .2 5 .1;

Max 2

0.000
matrixPreset 16

Notes

8

Video

235

Max 1

Max 2

Notes

0.000
loadSamples3 bang;

Video

0.000
nextSection 32

238

28

0.000
gatherCount 7;
gatherArray 0 2 4 5 7 9 10;
glassLow 19;

0.250
ssPartials 1 1 2 .7 3 .5;
ssPartials_1 1 1 2 .6 3 .4;

1.000
simLow bang

1.000
simSection 32

241

Notes

244

Max 1

Max 2

Notes

Video

0.000
gatherCount 6;
gatherArray 0 2 4 5 7 9;
glassLow 14;

0.000
loadSamples 1 bang;

0.000
nextSection 33

247

Max 1

Max 2

Notes

Video

29

1.000
simLow bang

0.250
matrixPreset 17

1.000
simSection 33

250

Max 1

Max 2

Notes

Video

253

Max 1

Max 2

Notes

Video

256

Max 1

Max 2

Notes

Video

259

Max 1

Max 2

Notes

Video

0.000

nextSection 35

♩ = 60

262

31

mf

Max 1

Max 2

Notes

Video

0.000

gatherCount 6;
gatherArray 0 2 4 5 7 9;
glassLow 16;
lowPianoGate 0

0.000

matrixPreset 18

1.000

simLow bang

3.540

glassHigh 16;
trigger1Gate 0;
trigger2Gate 1;

1.000

simSection 35

266

[F]

pp

mf

pp

mf

pp

Max 1

Max 2

Notes

Video

0.250

simHigh bang

2.000

gatherCount 6;
gatherArray 0 2 4 5 9 10

0.000

gatherCount 6;
gatherArray 0 2 3 5 8 10;
chimeGate 1;

2.000

simHigh bang

0.000

gatherCount 6;
gatherArray 0 1 3 5 8 10;
chimeGate 0;

0.000

section 36

271

mf pp mf pp

Max 1
0.000 matrixPreset 19
2.000 simHigh bang
2.000 simHigh bang

Max 2
0.000 gatherCount 6;
gatherArray 0 3 5 6 8 10;
chimeGate 1;
0.000 gatherCount 6;
gatherArray 0 1 5 6 8 10;
chimeGate 0;

Notes

Video
0.000 section 37

275

mf pp mf pp

Max 1
2.000 simHigh bang
2.000 simHigh bang

Max 2
0.000 gatherCount 6;
gatherArray 0 3 5 7 8 10;
chimeGate 1;
-0.082 gatherCount 6;
gatherArray 0 2 5 7 9 10;
chimeGate 0;

Notes

Video
0.000 section 38

279

mf *pp* *p*

Max 1
2.000
simHigh bang

Max 2
0.000
gatherCount 7;
gatherArray 0 2 4 5 7 9 10;
chimeGate 1;
2.050
glassHigh 12;
chimeGate 0;
2.000
simHigh bang

Notes

Video
0.000
section 39

283

52566
2.923 title 2.960

Max 2

Notes

Video
2.000
section 40