Black Onyx
The Human Brain on Music and Sound

MFA Simon Fraser University
Music Psychology Graduation Project

2018
Instrumentation:

**Prelude**

Flute

ViolonCello

Grand Piano

**First Movement**

Second Movement

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<tr>
<th><strong>Flute:</strong></th>
<th><strong>General:</strong></th>
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<td>j.w - jet whistle</td>
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**Violon Cello**

Prelude:

play with molto rubato

Electronic music with no meter and sense of rhythm will be playing alongside like a backing track

**General:**

all "x" noteheads mean mute the strings with the left hand while col legno
to get a percussive sound (no pitch whatsoever)

**First Movement:**

Measure 88 onwards - go back and forth muting the strings and letting the chord sound with col legno without changing the finger position.

Normal noteheads should have clear pitch

Ease 98 and 99: that beam indicates gradually bringing the bow behind the bridge
let it ring out a lot while maintaining the rhythm

**Second Movement:**

arpeggiated gestures introduced first on measure 10 - do not kill the sound immediately,
let it ring slightly

**Grand Piano:**

**General:**

all "x" noteheads mean tap the exposed strings with palm of hand while depressing
the pedal (let it ring out)

all cluster chords are white note clusters

**First Movement:**

Chord first introduced on measure 53 - is simply an arpeggio
written with grace notes for the ease of reading

Measure 138 onwards are explained in the score
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Prelude

Instrumentation:

Solo ViolonCello
Flute (Tacet)
Grand Piano (Tacet)
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Prelude:

\[ \frac{\text{molto espressivo rubato}}{\text{\LARGE 54}} \]

Vc.

\[ \text{p} \quad 3 \quad \text{f} \quad \text{mf} \quad \text{ff} \quad \text{mf} \quad \text{f} \quad \text{molto dolente} \]
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Movement I

Instrumentation:

ViolonCello
Grand Piano
Flute (Tacet)
Vc.

90

\[ \text{mf} \]

\[ f \]

Pno.

92

with the wood part of the bow

Vc.

\[ f \]

\[ \sim 3 \]

Pno.

\[ \text{ff} \]

94

Vc.

Pno.

96

\[ \text{mf} \]

\[ \text{sfz} \]
gliss strum with fingernail apply written density

scratch the lower strings with finger nail apply written density

let ring through this bar

scratch the lower strings with finger nail apply written density

gliss strum with fingernail apply written density
145

Vc.

Pno.

crashing sounds with fingernails

147

Vc.

Pno.

f

mf

149

Vc.

Pno.

gliss strum with fingernail apply written density

151

Vc.

(mf)

Pno.

mp
Vc. 161

Pno. 

Vc. 163

Pno. 

Vc. 165

Pno. 

Vc. 167

Pno. 

Scratching sounds with fingernails

Ped.
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Movement II

Instrumentation:

Flute
ViolonCello
Grand Piano

Approximate duration 12 min 30 sec
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Approximate duration: 12 min 30 sec

Aryan B.

Movement II:

Flute

Violoncello

Piano

\[ \text{Fl.} \quad \text{Vc.} \quad \text{mp} \quad \text{mf} \]

\[ \text{mp} \quad \text{molto sul pont senza vib} \quad \text{gliss} \]

\[ \text{normale molto vib} \]

\[ p \]

\[ \text{senza vib sul D} \quad \text{gliss} \]
tap the exposed strings with palm of hand

sul D gradually towards molto vib

sul C + G (con vib on D)
Fl.
Vc.
Pno.

25

Fl.
Vc.
Pno.

27

gradually towards molto vib

Fl.
Vc.
Pno.

29

senza vib sul pont (sul C\+G all
the way to measure 39 without
changing the interval shape)

Fl.
Vc.
Pno.

31

gliss
124 E gliss ff

126 E gliss

128 con amore mf ff
Fl. [ff] Vc. [ff] Pno.

Fl. [sfffz] senza vib under one full breath

Vc. [sul D senza vib]

Pno. [fff] 

136 ff 138 f fff
Fl. Vc. Pno.

157
ff

Fl. Vc. Pno.
molto furioso sempre (breaths should be taken under the rests as much as possible for legato)

159
molto vib

Fl. Vc. Pno.

160
mp
ff
mp

Red.

Red.
30

Fl.  Vc.  Pno.

175

\[ \text{gliss} \]

176

\[ \text{p} \]

\[ \text{fff} \]

\[ \text{p} \]

\[ \text{fff} \]

\[ \text{mp} \]

\[ \text{fff} \]

\[ \text{p} \]

\[ \text{fff} \]

\[ \text{pedal ad lib} \]

177

\[ \text{sffffz} \]

\[ \text{fff} \]

\[ \text{fff} \]