

# Eluvium

James Opstad

Reference score

# Eluvium

## for clarinet and resonating tam-tam

(2018)

### Technical Requirements

- 1x tablet (iPad/iPad Pro or similar)
- 1x macOS/Windows/Linux computer with SuperCollider installed
- 1x audio interface with a minimum of 2 microphone inputs and outputs
- 1x contact microphone (Jez Riley French C-series or similar) with impedance adaptor
- 1x cardioid condenser microphone (AKG 414 or similar)
- 1x speaker (Genelec 8030 or similar)

### Electronics Setup

- Position the condenser microphone to capture the clarinet.
- Attach the contact microphone to the front of the tam-tam.
- Place the speaker behind the tam-tam.
- Connect both microphones and the speaker to the audio interface.

The exact positioning of the contact microphone and speaker will have a significant impact on the resulting timbre. Each tam-tam is different and time should be reserved for experimentation prior to performance. It may be necessary to reduce the level of dominant frequencies in order to achieve a more varied spectrum. It is therefore recommended to use an EQ on the contact microphone input. The input and output levels are automatically regulated and should not be adjusted during performance.

### Score Viewer

This piece uses a specially designed score-reading application to trigger the electronics and assist with the performance of changing tempi. A printed score is provided for reference but the score viewer must be used in performance.

### Tempi

The top metronome mark at the start of the score indicates the base tempo. All other tempi are relative to this value.

Metronome marks for individual tempi are expressed as ratios. These indicate the relationship between the new tempo and the base tempo. In the score viewer these ratios are replaced by literal metronome marks in beats per minute.

Clarinet (B Flat)

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**A** ♩ = 112

RECORDING STARTS

♩ = 5:4 *legato*

Musical staff 1: Recording starts, tempo 5:4, dynamics *p*. The staff shows a sequence of notes: a whole note G4, a dotted half note A4, a quarter note B4, a quarter note C5, a quarter note B4, a quarter note A4, a quarter note G4, a quarter rest, a quarter rest, and a quarter note G4.

♩ = 5:6

Musical staff 2: Recording continues, tempo 5:6. The staff shows a sequence of notes: a quarter rest, a quarter note A#4, a quarter rest, a quarter rest, a quarter note B4, a quarter note A#4, a quarter note G#4, a quarter note F#4, a quarter note E4, a quarter note D4, a quarter note C4, and a quarter rest.

PLAYBACK STARTS

Musical staff 3: Playback starts. The staff shows a sequence of notes: a quarter rest, a quarter note G4, a quarter note F4, a quarter note E4, a quarter note D4, a quarter note C4, a quarter note B3, a quarter note A3, a quarter note G3, a quarter note F3, a quarter note E3, and a quarter note D3.

♩ = 5:4

Musical staff 4: Playback continues, tempo 5:4. The staff shows a sequence of notes: a quarter rest, a quarter note G4, a quarter note F4, a quarter note E4, a quarter note D4, a quarter note C4, a quarter note B3, a quarter note A3, a quarter note G3, a quarter note F3, a quarter note E3, and a quarter note D3.

RECORDING STOPS

Musical staff 5: Recording stops. The staff shows a sequence of notes: a quarter rest, a quarter note G4, a quarter note F4, a quarter note E4, a quarter note D4, a quarter note C4, a quarter note B3, a quarter note A3, a quarter note G3, a quarter note F3, a quarter note E3, and a quarter note D3.

♩ = 5:6

Musical staff 6: Recording continues, tempo 5:6. The staff shows a sequence of notes: a quarter rest, a quarter note A#4, a quarter rest, a quarter rest, a quarter note B4, a quarter note A#4, a quarter note G#4, a quarter note F#4, a quarter note E4, a quarter note D4, a quarter note C4, and a quarter rest.

Musical staff 7: Recording continues, tempo 5:6. The staff shows a sequence of notes: a quarter rest, a quarter note A#4, a quarter note G#4, a quarter note F#4, a quarter note E4, a quarter note D4, a quarter note C4, a quarter note B3, a quarter note A3, a quarter note G3, a quarter note F3, and a quarter note E3.

♩ = 5:4

Musical staff 8: Recording continues, tempo 5:4. The staff shows a sequence of notes: a quarter rest, a quarter note G4, a quarter note F4, a quarter note E4, a quarter note D4, a quarter note C4, a quarter note B3, a quarter note A3, a quarter note G3, a quarter note F3, a quarter note E3, and a quarter note D3.

**B**

RECORDING STARTS

♩ = 4:3

Musical staff 9: Recording starts, tempo 4:3. The staff shows a sequence of notes: a quarter rest, a quarter note G4, a quarter note F4, a quarter note E4, a quarter note D4, a quarter note C4, a quarter note B3, a quarter note A3, a quarter note G3, a quarter note F3, a quarter note E3, and a quarter note D3.

♩ = 4:5



PLAYBACK RESTARTS



♩ = 4:3



RECORDING STOPS



♩ = 4:5



♩ = 4:3



C

RECORDING STARTS

♩ = 3:2



♩ = 3:4



PLAYBACK RESTARTS





