

The Segments of the Trip Swing Open like an Orange

for 6 instruments, and spatialized sound reinforcement

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Notes

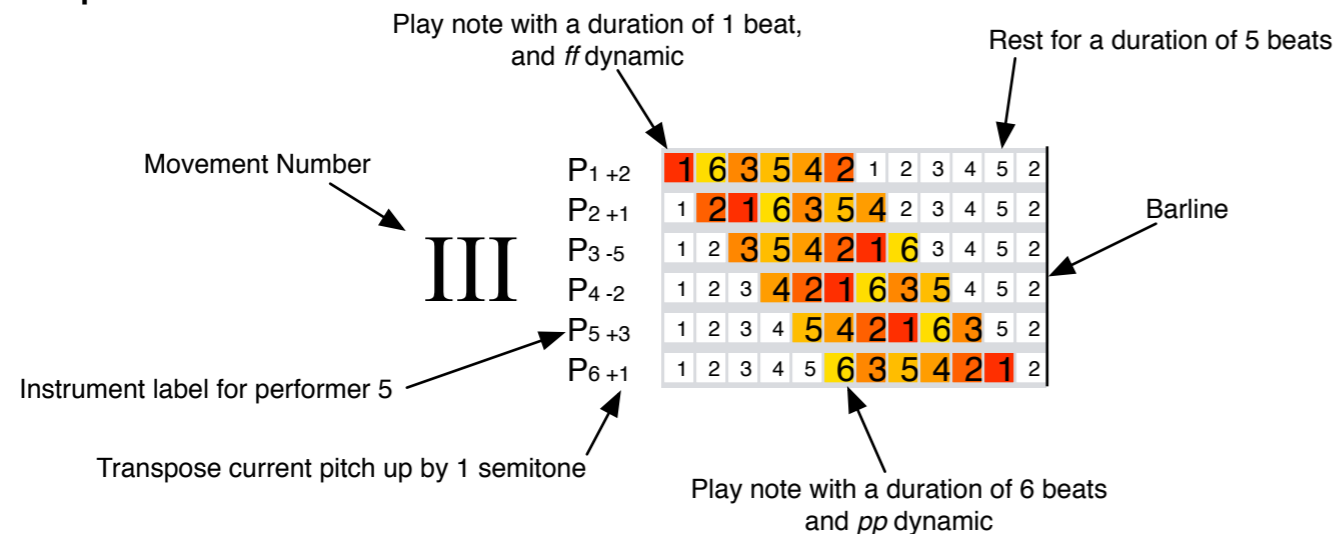
The Segments of the Trip... explores the poetic form of a Sestina. In a Sestina, six words repeat in a specific way across each of the six main stanzas. This word repetition pattern is used to determine the duration of rhythmic events for six instruments. As each instrument is introduced, its initial sequence of six rhythmic events mirrors the word pattern of the corresponding stanza in a Sestina, such that P_1 (performer 1) plays the initial word sequence of the first stanza (1 2 3 4 5 6) and P_2 plays the sequence of the second stanza (6 1 5 2 4 3). As the piece progresses, variations of these sequences are explored. The sequences are eventually played across the six instruments by rotating them orthogonally, so that each instrument's rhythmic sequence corresponds to a given position within each stanza, such that P_1 plays the rhythmic value associated with the first line of each stanza. The rotated sequences are then played in an order that is also determined by the sestina algorithm.

Each of the six instruments are individually reinforced and spatialized. Real-time spatialization software independently interpolates the audio output of each instrument across six loudspeakers, in accordance with the score. As a result, each instrument's sequence of rhythmic events is also reflected spatially. Using the sestina algorithm to sequence, layer, and reorient rhythmic events creates a musical texture that explores patterns of temporal (mis)alignment, distance between linked events, and motion.

Instrumentation

The piece requires six instruments capable of producing relatively short rhythmic events. The precise instrumentation is left to the performers' discretion. For pitched instruments, the individual performer may choose any one pitch arbitrarily and then realize the score using that starting pitch. No two instruments should choose the same initial pitch.

Score Excerpt



Elucidation of Score Components

III *Movement Number*. Indicates the beginning of a new movement and a subsequent change in pitch for each instrument.

P₁ *Instrument Label*. Denotes the beginning of a new staff of music for a given performer (in this case Performer 1). The vertical order of instruments is maintained across all staff systems.

+2 *Transposition Interval in Semitones*. Appears after the *Instrument Label* for all staff systems except Movement I. For each instrument, the pitch is chosen arbitrarily by the performer at the beginning of the piece. Therefore, there is no transposition interval value given for Movement I. In movements II-VI, add or subtract the given number of semitones to or from the pitch used for the previous movement.

Note. A colored box with a number denotes the rhythmic value of a note that a performer must play. The number represents the number of beats comprising the duration of the note (sustained or unsustained). The color indicates the dynamic at which the note is played (see below).

1

5

Rest. A white box with a small number denotes the rhythmic value of a rest. The number represents the number of beats comprising the duration of the rest.

Dynamics. The color of the boxes represents a range of dynamics.

ff
f
mf
mp
p
pp

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140 bpm

I

P ₁	1 2 3 4 5 6	1 2 3 4 5 6	1 2 3 4 5 6	1 2 3 4 5 6	1 2 3 4 5 6	1 2 3 4 5 6	1 2 3 4 5 6	1 2 3 4 5 6	1 2 3 4 5 6	1 2 3 4 5 6	1 2 3 4 5 6	1 2 3 4 5 6	1 2 3 4 5 6	1 2 3 4 5 6	1 2 3 4 5 6	1 2 3 4 5 6	1 2 3 4 5 6	1 2 3 4 5 6	1 2 3 4 5 6	1 2 3 4 5 6	1 2 3 4 5 6	1 2 3 4 5 6	
P ₂	6 1 5 2 4 3	6 1 5 2 4 3	6 1 5 2 4 3	6 1 5 2 4 3	6 1 5 2 4 3	6 1 5 2 4 3	6 1 5 2 4 3	6 1 5 2 4 3	6 1 5 2 4 3	6 1 5 2 4 3	6 1 5 2 4 3	6 1 5 2 4 3	6 1 5 2 4 3	6 1 5 2 4 3	6 1 5 2 4 3	6 1 5 2 4 3	6 1 5 2 4 3	6 1 5 2 4 3	6 1 5 2 4 3	6 1 5 2 4 3	6 1 5 2 4 3	6 1 5 2 4 3	6 1 5 2 4 3
P ₃	3 6 4 1 2 5	3 6 4 1 2 5	3 6 4 1 2 5	3 6 4 1 2 5	3 6 4 1 2 5	3 6 4 1 2 5	3 6 4 1 2 5	3 6 4 1 2 5	3 6 4 1 2 5	3 6 4 1 2 5	3 6 4 1 2 5	3 6 4 1 2 5	3 6 4 1 2 5	3 6 4 1 2 5	3 6 4 1 2 5	3 6 4 1 2 5	3 6 4 1 2 5	3 6 4 1 2 5	3 6 4 1 2 5	3 6 4 1 2 5	3 6 4 1 2 5	3 6 4 1 2 5	3 6 4 1 2 5
P ₄	5 3 2 6 1 4	5 3 2 6 1 4	5 3 2 6 1 4	5 3 2 6 1 4	5 3 2 6 1 4	5 3 2 6 1 4	5 3 2 6 1 4	5 3 2 6 1 4	5 3 2 6 1 4	5 3 2 6 1 4	5 3 2 6 1 4	5 3 2 6 1 4	5 3 2 6 1 4	5 3 2 6 1 4	5 3 2 6 1 4	5 3 2 6 1 4	5 3 2 6 1 4	5 3 2 6 1 4	5 3 2 6 1 4	5 3 2 6 1 4	5 3 2 6 1 4	5 3 2 6 1 4	5 3 2 6 1 4
P ₅	4 5 1 3 6 2	4 5 1 3 6 2	4 5 1 3 6 2	4 5 1 3 6 2	4 5 1 3 6 2	4 5 1 3 6 2	4 5 1 3 6 2	4 5 1 3 6 2	4 5 1 3 6 2	4 5 1 3 6 2	4 5 1 3 6 2	4 5 1 3 6 2	4 5 1 3 6 2	4 5 1 3 6 2	4 5 1 3 6 2	4 5 1 3 6 2	4 5 1 3 6 2	4 5 1 3 6 2	4 5 1 3 6 2	4 5 1 3 6 2	4 5 1 3 6 2	4 5 1 3 6 2	4 5 1 3 6 2
P ₆	2 4 6 5 3 1	2 4 6 5 3 1	2 4 6 5 3 1	2 4 6 5 3 1	2 4 6 5 3 1	2 4 6 5 3 1	2 4 6 5 3 1	2 4 6 5 3 1	2 4 6 5 3 1	2 4 6 5 3 1	2 4 6 5 3 1	2 4 6 5 3 1	2 4 6 5 3 1	2 4 6 5 3 1	2 4 6 5 3 1	2 4 6 5 3 1	2 4 6 5 3 1	2 4 6 5 3 1	2 4 6 5 3 1	2 4 6 5 3 1	2 4 6 5 3 1	2 4 6 5 3 1	2 4 6 5 3 1

with energy and anticipation

II

P ₁₊₁	1 2 3 4 5 6	6 1 5 2 4 3	3 6 4 1 2 5	5 3 2 6 1 4	4 5 1 3 6 2	2 4 6 5 3 1
P ₂₊₂	1 2 3 4 5 6	6 1 5 2 4 3	3 6 4 1 2 5	5 3 2 6 1 4	4 5 1 3 6 2	2 4 6 5 3 1
P ₃₊₃	1 2 3 4 5 6	6 1 5 2 4 3	3 6 4 1 2 5	5 3 2 6 1 4	4 5 1 3 6 2	2 4 6 5 3 1
P ₄₊₁	1 2 3 4 5 6	6 1 5 2 4 3	3 6 4 1 2 5	5 3 2 6 1 4	4 5 1 3 6 2	2 4 6 5 3 1
P ₅₋₂	1 2 3 4 5 6	6 1 5 2 4 3	3 6 4 1 2 5	5 3 2 6 1 4	4 5 1 3 6 2	2 4 6 5 3 1
P ₆₋₅	1 2 3 4 5 6	6 1 5 2 4 3	3 6 4 1 2 5	5 3 2 6 1 4	4 5 1 3 6 2	2 4 6 5 3 1

with calculated restraint

III

P ₁₊₂	1 6 3 5 4 2	1 2 3 4 5	2 1 4 6 5 3	2 4 6 5 3	3 2 5 1 6 4	3 6 4 1 2	4 3 6 2 1 5	4 5 1 3 6	5 4 1 3 2 6	5 3 2 6 1	6 5 2 4 3 1	6 1 5 2 4 3
P ₂₊₁	1 2 1 6 3 5 4	2 3 4 5	2 4 2 5 1 3 6	4 6 5 3	3 6 4 3 2 1 5	6 4 1 2	4 5 6 1 4 2 3	5 1 3 6	5 3 5 2 6 4 1	3 2 6 1	6 1 3 4 5 6 2	1 5 2 4 3
P ₃₋₅	1 2 3 5 4 2 1 6	3 4 5	2 4 6 3 1 5 2 4	6 5 3	3 6 4 6 2 3 5 1	4 1 2	4 5 1 4 5 6 3 2	1 3 6	5 3 2 1 3 4 6 5	2 6 1	6 1 5 2 6 1 4 3	5 2 4 3
P ₄₋₂	1 2 3 4 2 1 6 3 5	4 5	2 4 6 5 4 3 2 6 1	5 3	3 6 4 1 5 6 4 2 3	1 2	4 5 1 3 1 2 5 4 6	3 6	5 3 2 6 3 4 1 5 2	6 1	6 1 5 2 6 5 3 1 4	2 4 3
P ₅₊₃	1 2 3 4 5 4 2 1 6 3	5	2 4 6 5 3 5 6 4 1 2	3	3 6 4 1 2 3 1 5 4 6	2	4 5 1 3 6 2 4 3 5 1	6	5 3 2 6 1 6 5 2 3 4	1	6 1 5 2 4 1 3 6 2 5	4 3
P ₆₊₁	1 2 3 4 5 6 3 5 4 2 1	2 4 6 5 3	1 6 2 3 4 5	3 6 4 1 2	5 1 4 6 3 2	4 5 1 3 6	2 5 3 1 6 4	5 3 2 6 1	4 2 6 5 1 3	6 1 5 2 4	3 4 1 2 5 6	3

with increasing confidence

IV

P ₁₊₁	1 2 3 4 5 6	6 1 5 2 4 3	3 6 4 1 2 5	5 3 2 6 1 4	4 5 1 3 6 2	2 4 6 5 3 1	1 6 3 5 4 2
P ₂₋₂	1 6 1 5 2 4 3	3 6 4 1 2 5	5 3 2 6 1 4	4 5 1 3 6 2	2 4 6 5 3 1	1 2 3 4 5 6	6 3 5 4 2
P ₃₊₁	1 6 3 6 4 1 2	5 5 3 2 6 1	4 4 5 1 3 6	2 2 4 6 5 3	1 1 2 3 4 5 6	6 1 5 2 4 3	3 5 4 2
P ₄₊₃	1 6 3 5 3 2 6 1	4 4 5 1 3 6	2 2 4 6 5 3	1 1 2 3 4 5 6	6 1 5 2 4 3	3 6 4 1 2 5	5 4 2
P ₅₋₅	1 6 3 5 4 5 1 3	6 2 2 4 6 5 3	1 1 2 3 4 5 6	6 1 5 2 4 3	3 6 4 1 2 5	5 3 2 6 1 4	4 4 2
P ₆₊₂	1 6 3 5 4 2 4 6	5 3 1 1 2 3 4 5 6	6 1 5 2 4 3	3 6 4 1 2 5	5 3 2 6 1 4	4 4 5 1 3 6	2 2

with a growing sense of anxiety and vertigo

V

P ₁₋₂	1 2 3 4 5 6	6 1 5 2 4 3	3 6 4 1 2 5	5 3 2 6 1 4	4 5 1 3 6 2	2 4 6 5 3 1
P ₂₊₃	1 2 3 4 5 6	6 1 5 2 4 3	3 6 4 1 2 5	5 3 2 6 1 4	4 5 1 3 6 2	2 4 6 5 3 1
P ₃₊₂	1 2 3 4 5 6	6 1 5 2 4 3	3 6 4 1 2 5	5 3 2 6 1 4	4 5 1 3 6 2	2 4 6 5 3 1
P ₄₋₅	1 2 3 4 5 6	6 1 5 2 4 3	3 6 4 1 2 5	5 3 2 6 1 4	4 5 1 3 6 2	2 4 6 5 3 1
P ₅₊₁	1 2 3 4 5 6	6 1 5 2 4 3	3 6 4 1 2 5	5 3 2 6 1 4	4 5 1 3 6 2	2 4 6 5 3 1
P ₆₊₁	1 2 3 4 5 6	6 1 5 2 4 3	3 6 4 1 2 5	5 3 2 6 1 4	4 5 1 3 6 2	2 4 6 5 3 1

tentatively, as if feeling displaced

VI

P ₁₊₃	1 6 3 5 4 2	1 6 3 5 4 2	1 6 3 5 4 2	1 6 3 5 4 2	1 6 3 5 4 2	1 6 3 5 4 2	1 6 3 5 4 2	1 6 3 5 4 2	1 6 3 5 4 2	1 6 3 5 4 2	1 6 3 5 4 2	1 6 3 5 4 2	1 6 3 5 4 2	1 6 3 5 4 2	1 6 3 5 4 2	1 6 3 5 4 2	1 6 3 5 4 2	1 6 3 5 4 2	1 6 3 5 4 2	1 6 3 5 4 2	1 6 3 5 4 2	1 6 3 5 4 2	1 6 3 5 4 2
P ₂₋₅	2 1 6 3 5 4	2 1 6 3 5 4	2 1 6 3 5 4	2 1 6 3 5 4	2 1 6 3 5 4	2 1 6 3 5 4	2 1 6 3 5 4	2 1 6 3 5 4	2 1 6 3 5 4	2 1 6 3 5 4	2 1 6 3 5 4	2 1 6 3 5 4	2 1 6 3 5 4	2 1 6 3 5 4	2 1 6 3 5 4	2 1 6 3 5 4	2 1 6 3 5 4	2 1 6 3 5 4	2 1 6 3 5 4	2 1 6 3 5 4	2 1 6 3 5 4	2 1 6 3 5 4	2 1 6 3 5 4
P ₃₊₁	3 5 4 2 1 6	3 5 4 2 1 6	3 5 4 2 1 6	3 5 4 2 1 6	3 5 4 2 1 6	3 5 4 2 1 6	3 5 4 2 1 6	3 5 4 2 1 6	3 5 4 2 1 6	3 5 4 2 1 6	3 5 4 2 1 6	3 5 4 2 1 6	3 5 4 2 1 6	3 5 4 2 1 6	3 5 4 2 1 6	3 5 4 2 1 6	3 5 4 2 1 6	3 5 4 2 1 6	3 5 4 2 1 6	3 5 4 2 1 6	3 5 4 2 1 6	3 5 4 2 1 6	3 5 4 2 1 6
P ₄₊₁	4 2 1 6 3 5	4 2 1 6 3 5	4 2 1 6 3 5	4 2 1 6 3 5	4 2 1 6 3 5	4 2 1 6 3 5	4 2 1 6 3 5	4 2 1 6 3 5	4 2 1 6 3 5	4 2 1 6 3 5	4 2 1 6 3 5	4 2 1 6 3 5	4 2 1 6 3 5	4 2 1 6 3 5	4 2 1 6 3 5	4 2 1 6 3 5	4 2 1 6 3 5	4 2 1 6 3 5	4 2 1 6 3 5	4 2 1 6 3 5	4 2 1 6 3 5	4 2 1 6 3 5	4 2 1 6 3 5
P ₅₊₂	5 4 2 1 6 3	5 4 2 1 6 3	5 4 2 1 6 3	5 4 2 1 6 3	5 4 2 1 6 3	5 4 2 1 6 3	5 4 2 1 6 3	5 4 2 1 6 3	5 4 2 1 6 3	5 4 2 1 6 3	5 4 2 1 6 3	5 4 2 1 6 3	5 4 2 1 6 3	5 4 2 1 6 3	5 4 2 1 6 3	5 4 2 1 6 3	5 4 2 1 6 3	5 4 2 1 6 3	5 4 2 1 6 3	5 4 2 1 6 3	5 4 2 1 6 3	5 4 2 1 6 3	5 4 2 1 6 3
P ₆₋₂	6 3 5 4 2 1	6 3 5 4 2 1	6 3 5 4 2 1	6 3 5 4 2 1	6 3 5 4 2 1	6 3 5 4 2 1	6 3 5 4 2 1	6 3 5 4 2 1	6 3 5 4 2 1	6 3 5 4 2 1	6 3 5 4 2 1	6 3 5 4 2 1	6 3 5 4 2 1	6 3 5 4 2 1	6 3 5 4 2 1	6 3 5 4 2 1	6 3 5 4 2 1	6 3 5 4 2 1	6 3 5 4 2 1	6 3 5 4 2 1	6 3 5 4 2 1	6 3 5 4 2 1	6 3 5 4 2 1

without energy or anticipation