Georg Hajdu

Exit

for solo violin

and

MAX/MSP

(2001)

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In memory of Nancy Bogost

Your eyes light shining, blue radiant. Mine—veiled, duller, nothing revealed. Meeting our mouths sprung into laughter. We danced the dance, headlong exploring limitless secrets, unraveling mysteries. Sisters we shared and not sharing we fought. Our fierce rage unsheathed, sweetly we surrendered. Now the river stands between us, our eyes no longer flashing, tears only falling into the stream, churning, whirling, disappearing and resurfacing, thru kalpas and eons one hundred thousand manifestations, warriors and courtesans, mountains and palm trees. My sister, mother, child and friend, how can I bear to let you go? But I see your determined eye. "On to the other shore!" is your mandate. Gya te... then go... in peace. It's ok. I'll catch up with you. (Jean Wong)

Introduction:

Exit was written in 19-tone equal temperament (19TET). This consonant tuning contains fifths that are only slightly lower than just fifths and other just intervals in close approximation, such as the major third (5/4) and the minor seventh (7/4). The piece is based on five different harmonic series—all of them containing a g being either the third, fifth, seventh, ninth or eleventh partial. The harmonic series were adjusted to 19TET and notated in standard eighth-tone notation. When performing, the performers needs to bear in mind that eighth-tone notation can only approximate 19TET with a maximum error of 12.5 cts (which is considerably less then the Pythagorean comma, though). Nonetheless, it is desirable that the piece is performed as accurately as possible. He/she is should therefore familiarize himself/herself with the scale (a practice CD is available from the publisher upon request.)

The following figure shows the scale and its deviation from eighth-tone notation in cents:



Electronics:

Exit requires a second performer executing and controlling MAX/MSP patches. MAX is a graphical programming environment for the Apple Macintosh which was mainly developed for musical purposes. The performer uses a microphone for real-time audio processing. There is no prerecorded material except for the playback of the poem (written and spoken by Jean Wong).

The following table lists the processes used in *Exit*.

Process	Abbreviations used in score	Explanation
Granular synthesis: Recording and Playback	GS Rec & Play [(gated)], GS Play, GS Stop	A MAX granular synthesis patch catches the notes performed by the player and starts immediate playback. There are two recording modes: First trigger and continuous trigger (gated).
Delay	StereoDel, QuadDelay	Delay (2/4 channels).
Spatialization	Spat, Rotation	Quadraphonic spatial effects: rotation and 2-dimensional control by amplitude (EnvFol) and spectral centroid.
Real-time recording and playback	Rec, Collage	Real-time recording of short fragments into 6 different playback buffers.
Transposition	Transp	Quadraphonic pitch-shifting
GRM Tools Plug-in	GRM PitchAccum	GRM PitchAccum is a vst plug- in with some drastic sound effects (a combination of pitch shifting and modulation). The effect preset can be controlled in real-time.
Long reverb	Long Rev	A 15" second reverb
Resonant Filters	Resonances, Reson, EnvFol->Reson	A bank of resonant filters that filter spectral chords out of a noisy signal. Its amplitude may also be controlled by an envelope follower (EnvFol)

Setup:

Exit requires a PowerMacintosh G3 or G4 computer equipped with a multichannel sound card running at 400 MHz and with 128 MBytes of RAM as well as a quadraphonic playback system .

Duration: 10'30"

Exit for violin and live electronics

Text by Jean Wong
In memory of Nancy Bogost

Georg Hajdu

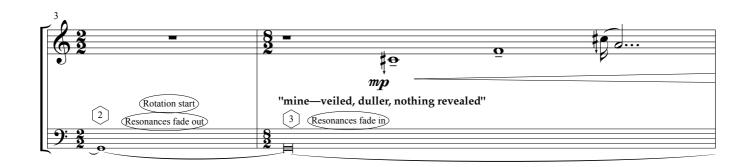
Violin

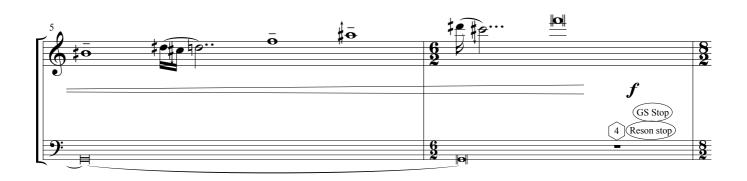
Violin

Wyour eyes—light shining, blue radiant"

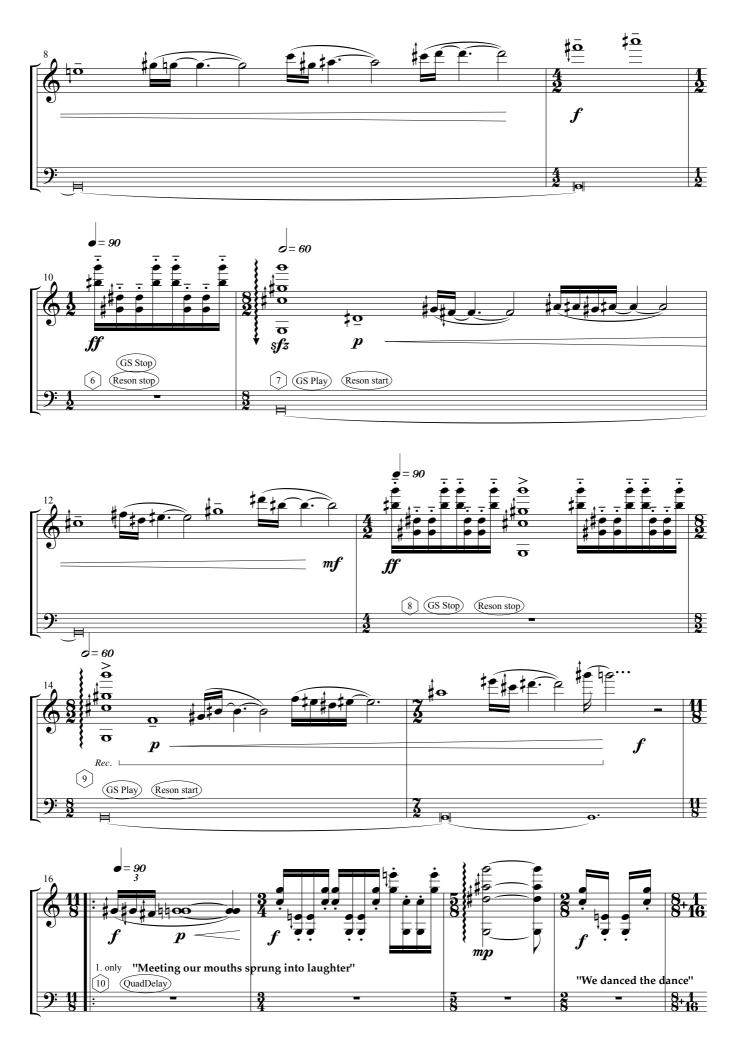
Gis Rec & Play

Resonances fade in







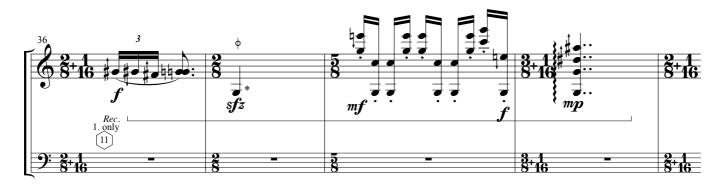










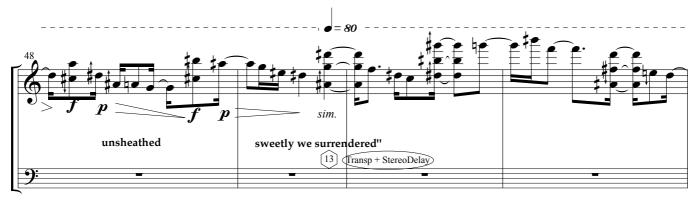


^{**} Skip measures 29 - 40 during repeat

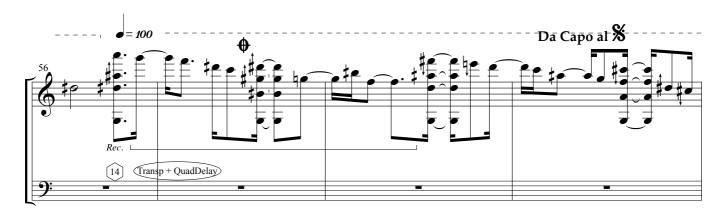




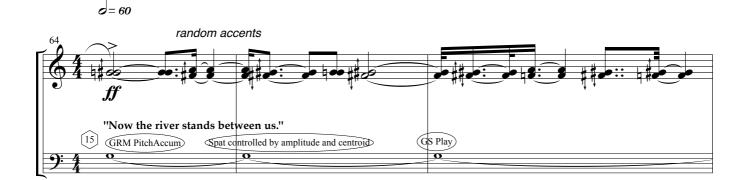






















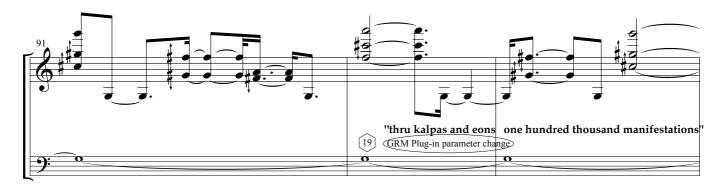


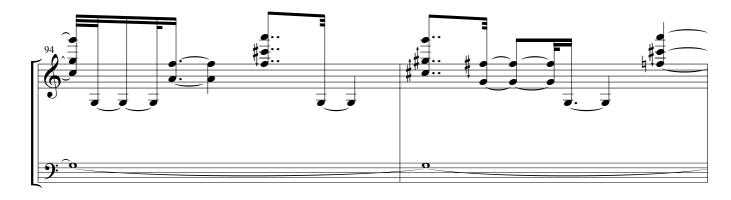






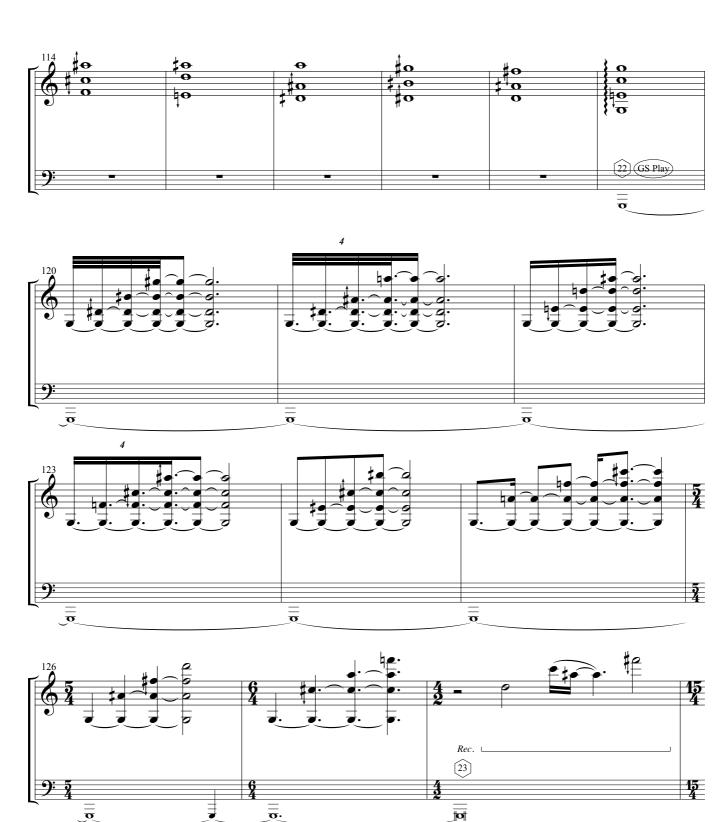






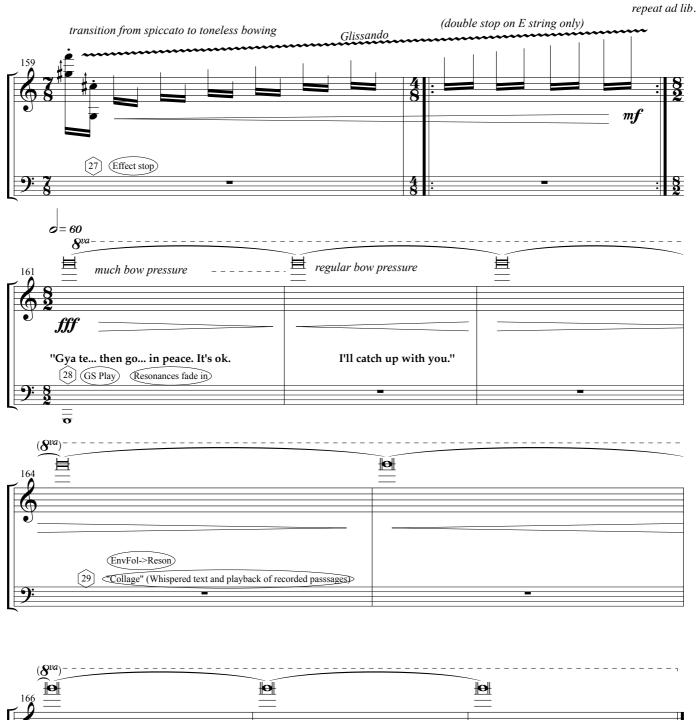












Duration 10 minutes