

KOLOKOL

FOR TWO PIANOS AND ELECTRONICS



KOLOKOL
 two pianos and electronics ("tape")
 duration: 11:03
 January 2010

PROGRAM NOTES:

The inspiration for *Kolokol* comes from a study of traditional Russian Orthodox Church Bells. This piece is based on the seventeen Danilov Bells that hang at Harvard University, Cambridge, Massachusetts. The original bells were returned to Russia during the summer of 2008. Today, seventeen new Russian Orthodox bells (replicas of the original Danilov Bells) hang in the bell tower of Lowell House. in the Fall of 2009 to make field recordings of these bells. indirectly in the composition.

There are seventeen harmonies which represent the seventeen bells. These harmonies, which feature pitches outside of standard piano tuning are made possible by electronics and recordings of detuned pianos created using physical modeling. The bells are also featured directly as triggered soundfiles (raw and processed). The piece consists of four movements to be played without pause:

- I. Blagovest - Converging
- II. Trezvon - Red (Beautiful) Chime
- III. Perebor - Funeral Chime
- IV. Trezvon - Jubilant Chime

These movements are my own take on a "fantasy" approach to traditional Russian Orthodox ringing practice. The core for each movement comes from a traditional ringing style (after which it is named) and is then developed and embellished to create my own impressionistic take on a journey within the ringing of the bells.

PERFORMANCE NOTES:

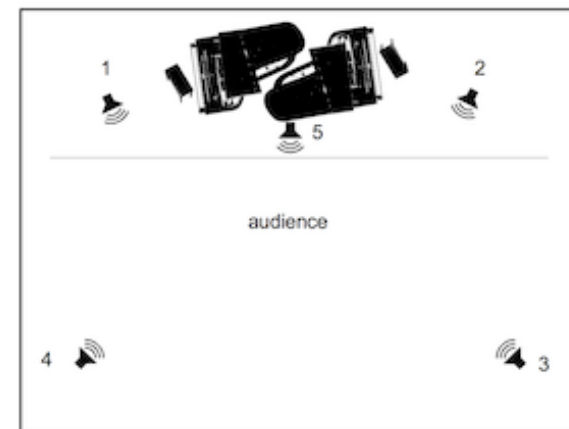
The piece calls for two pianists playing on opposing pianos: player 1 on the left, player 2 on the right.

The electronics are in the form of a tape part consisting of sound recordings (raw and manipulated) of the Danilov Bells, recordings of alternatively tuned pianos, and pre-recorded real-time processing of the live piano material. The tuned piano samples are tuned to the spectra of the individual Danilov Bells. The tape part comes with a click track to be sent to each pianist through headphones. Each pianist can also receive a mix of the electronics with this.

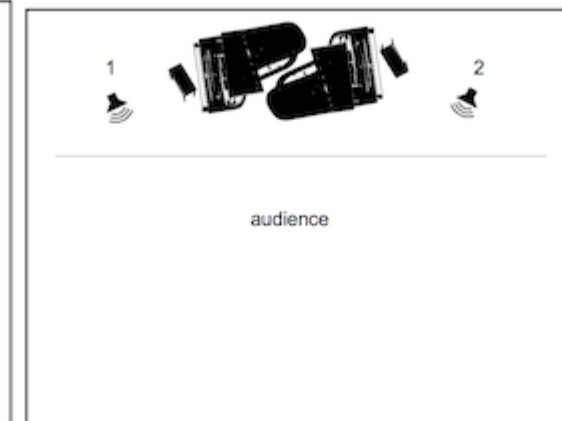
The piece can be performed in 5.1 Surround or in Stereo. The performance of the work requires playback of a soundfile with click tracks sent to the performers. Any system can be used to playback the files. I have provided a Max/Patch playback system for both 5-channel and 2-channel versions. Both versions are available in the folder and run off of Max/MSP Runtime, a standalone program that can run on a laptop (program included in the folder with the piece). An audio interface should be connected to the laptop. For 5.1 mode, the click track comes from Channel 7. For Stereo mode, the click track comes from Channel 3. The patch includes a text file, INSTRUCTIONS.txt, which details how to use the patch and run the piece.

Take-home practice parts (with electronics and click tracks) are available. It is suggested that the performers put these audiofiles on an mp3 player, and practice with it using a single headphone in one ear.

STAGE SET-UP:

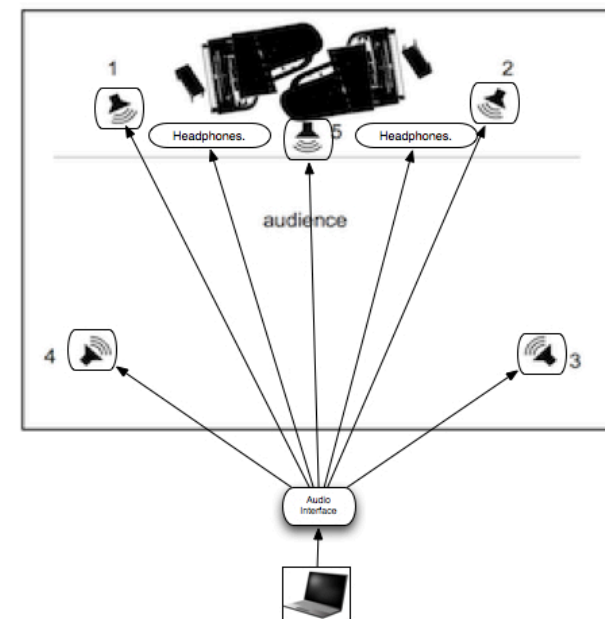


5-channel set-up

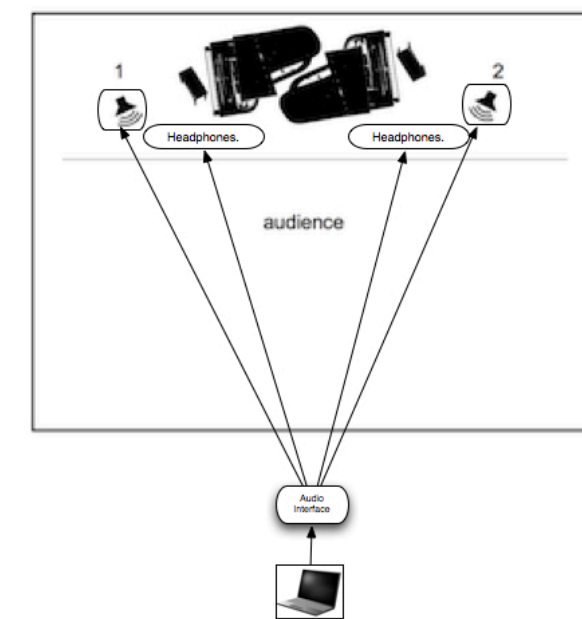


2-channel set-up

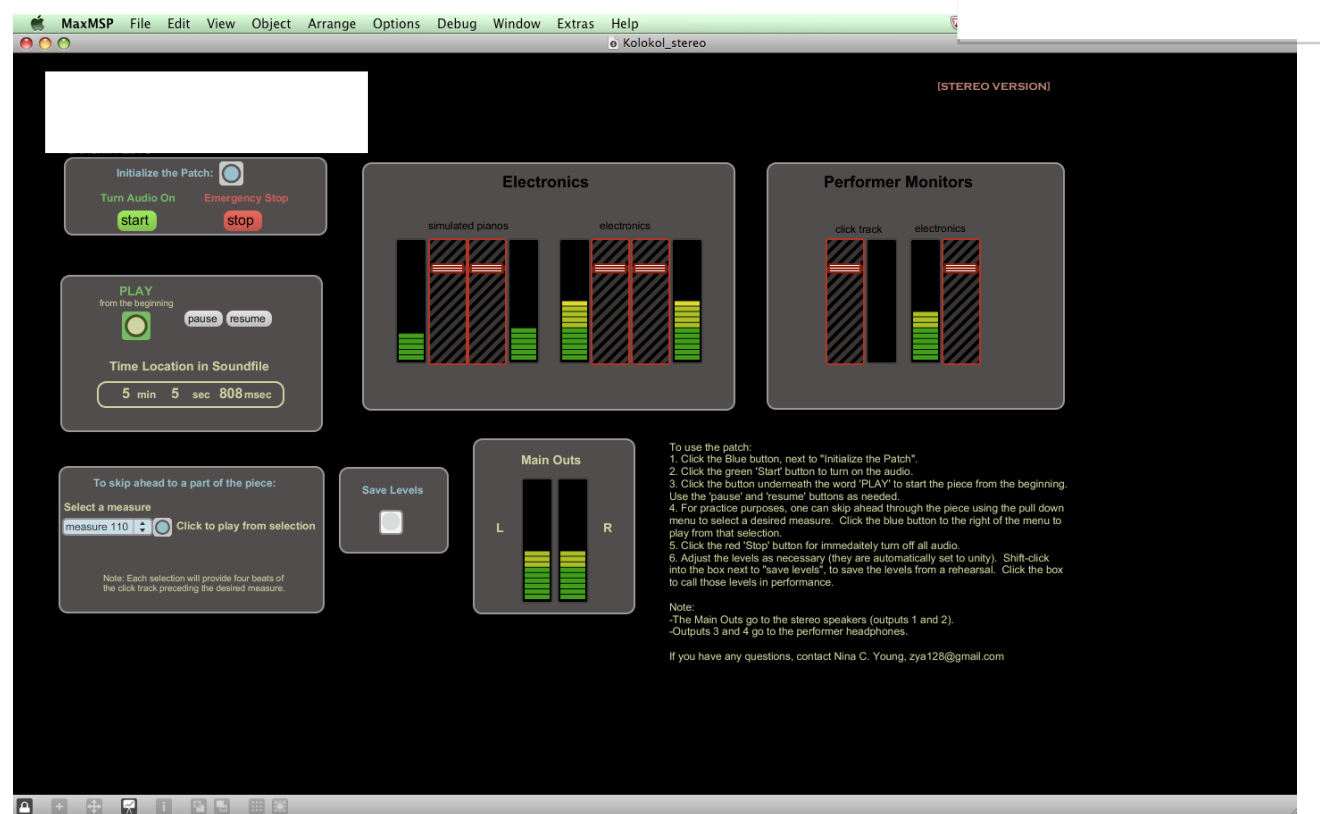
TECHNICAL SET-UP:



5-channel set-up



2-channel set-up



NOTATION KEY:

	Sharped note and quarter-tone higher
	Sharped note and quarter-tone lower
	Sharp
	Natural
	Flat
	Flated note and quarter tone higher
	Flated note and quarter tone lower
	Quickly arpeggiate

CONTACT INFORMATION:

For further information regarding the piece or electronics, contact

Email:

Website:

KOLOKOL

I. Blagovest - Converging

♩ = 72

Piano 1

Piano 2

Electronics

Alternate Tuning Piano Samples

p *f* *p* *mf* *mp* *mf* *psub.* *ff*

f *p* *f* *p* *mf* *mp* *mf* *psub.* *ff*

spectral resonance from pianos begins Bell 13 granular synthesis soundfile Bells 16&17 more granular synthesis and faded chimes

11

Pno. 1

Pno. 2

Elect.

P.S.

fff *fff* *f*

accel. *rit.* *accel.* *rit.*

♩ = 160 *rit.* ♩ = 72

Bell 01 Bell 01 diffused Bell 01 spectral disintegration Bell 02 shimmer Bell 14 spectral resonance from pianos

II. Trezvon - Red (Beautiful) Chime

Piano 1 and Piano 2 parts, measures 32-43. The score includes dynamic markings such as *f p*, *f*, *mp*, *mf*, and *p*. It features 15-measure rests (*15^{ma}*) and an *accel.* marking. The Electric Bells part includes notes for Bell 14, Bells 15&17, Bell 10, Bell 10 frequency shift, piano resonance, and Bells 01&03.

Piano 1 and Piano 2 parts, measures 44-51. The tempo is marked $\text{♩} = 120$. The score includes dynamic markings such as *p*, *ff*, *dim. poco a poco*, *mf*, *f*, *mf*, *ff*, and *mp*. It features 4-measure rests (*4^{ma}*) and 8-measure rests (*8^{ma}*). The Electric Bells part includes notes for Bell 09 and Bell 16. A note at the bottom indicates "freeze of pianos continues until measure 81".

56

Pno. 1

Pno. 2

Elect.

pp *mp* *mp* *mf* *f*

pp *mp* *f* *f* *ff*

high shimmer fades in

68

Pno. 1

Pno. 2

Elect.

ff *ff*

Bell 08 Bell 07

79

Pno. 1

Pno. 2

Elect.

ffff

ffff

freeze of pianos fades into recorded pianos playing half-note bell drones (gesture crescendoes through measure 97)

Bell 09

high shimmer fades out

89

Pno. 1

Pno. 2

Elect.

listen for 4 beats pick-up to measure 100 of click track

listen for 4 beats pick-up to measure 100 of click track

high shimmer cascades into measure 100

III. Perebor - Funeral Chime

100 $\text{♩} = 60$

Pno. 1 *fff* *pp* *mp* *f* *mp*

Pno. 2 *fff* *pp* *mp* *ppp* *mp* *f* *mp*

Elect. Bell 01 low bass growl begins, emerging from Bell 01, lasting until measure 134 Bell 17 processing of Bell 17

110

Pno. 1 *f* *mf* *mp* *f* *ff* *pp* *f* *pp* *f* *pp* *f*

Pno. 2 *f* *mf* *mp* *mp* *f* *f* *pp* *f* *pp* *f* *pp* *f*

Elect. Bell 16 processing of Bell 16 Bell 15 processing of Bell 15 Bell 14 processing of Bell 14

P.S.

118

Pno. 1

Pno. 2

Elect.

P.S.

127

Pno. 1

Pno. 2

Elect.

P.S.

theatrically remain transfixed and frozen to each chord of the piano through measure 137

IV. Trezvon - Jubilant Chime

theatrically remain transfixed and frozen to each chord of the piano through measure 137

Bell 08, Bell 07, Bell 06, Bell 05, Bell 04, Bell 03, Bell 02, Bell 01, Bell 12, Bell 13

granular synthesis of high bell artifacts fades out

136

Pno. 1

Pno. 2

Elect.

P.S.

mp *p* *mp* *p_{sub.}* *pp* *p* *mp*

Bell 13 Bell 12 Bell 13 spectral resonance from pianos begins Bell 16 Bell 13 Bell 09 reversed Bell 02

150

Pno. 1

Pno. 2

Elect.

P.S.

mp *p* *mf* *f* *ff* *fff* *p_{sub.}* *ff* *p_{sub.}*

mp *mf* *f* *ff* *fff* *p_{sub.}* *ff* *p_{sub.}*

accel. *accel.*

Bell 16&13 Bell 02 Bell 03 Bells 01,06,12

(accel.)

♩ = 120

161

Pno. 1 *ff* *mp* *mf*

Pno. 2 *ff* *dim. poco a poco* *p* *p*

Elect. Bell 04 Bell 06 - filtered Bell 14 Bell 14

P.S.

177

Pno. 1 *f* *p*

Pno. 2 *mf* *pp* *p* *pp*

Elect. Bell 16 Bell 16

P.S. freeze of piano bell drone until measure 211

187

Pno. 1

Pno. 2

Elect.

mp *mf* *f* *f* *ff*

fp *mp* *fp* *f* *ff*

Bell 11

Bells 04&07 reversed

199

Pno. 1

Pno. 2

Elect.

P.S.

Bell 09

Bell 08

Bell 07

210

Pno. 1

cresc.

fff

Pno. 2

cresc.

fff

Elect.

P.S.

Bell 04

Bell 09

Bell 12

219

Pno. 1

Pno. 2

Elect.

P.S.

High Harmonic Series in

228

Pno. 1

Pno. 2

Elect.

P.S.

The score consists of four staves. Pno. 1 and Pno. 2 are piano parts with complex textures, including chords and melodic lines. The electronics part (Elect.) features a swell starting at measure 228, with a note marked 'Bell 08'. The percussion part (P.S.) includes a series of chords and a final chord marked 'Bell 08'. The score ends with a double bar line.

cut off with electronics swell
(remove foot aggressively from sustain pedal)

cut off with electronics swell
(remove foot aggressively from sustain pedal)

stems/noise fades in

Bell 08