

# 聲動之脈

Without Rhyme-Sounds

為平劇鑼鼓與Max即時互動預置電腦音樂  
For Percussions of Chinese Opera and Computer Sounds

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# 聲動之示

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The screenshot displays a Pure Data patch interface with several functional areas:

- Left Panel (Control and Routing):** Features a 'connect' button, a 'metro 50' object, and various signal routing objects like 'route remote', 'route motion ir buttons', and 'p motion'. It includes a list of button mappings (Left, Right, Down, Up, Minus, Plus, Home) and a 'speed \$1' control.
- Center Panel (Signal Processing):** Contains 'sel 12' objects, 'del 900' and 'del 100' delay lines, 'clear' objects, and 'um 12' units. A 'loadbang' object is connected to a 'startwindow' object, which triggers a waveform display.
- Right Panel (Sound Bank):** Lists two categories of sound files:
  - 環繞電子聲 (Surround Electronic Sounds):** Includes sPiano, sElector2-4, Sound3, sWater1, sTrumpet, sBeep1, sWind2, sBuzz, sBeep2, and sWind1.
  - 小鑼高音逆行迴響聲 (Small Gong High-Pitched Retrograde Reverb Sounds):** Includes eSound23, eSound22, eSound20, eSound16, eSound11, eSound2, eHarmonie, sHarmonie, sHarmonie2, sBunk, sElector1, and eSound5.
- Bottom Section:** Features a 'loadbang' object, a 'Sound File' browser, and three 'phasor~ 440' oscillators. Below these are 'cycle~ 1000' objects, 'sfplay~ 2' objects, and 'selector~ 3' objects. A volume control slider and a speaker icon are also present.
- Bottom Right:** A spectrogram visualization showing the frequency spectrum of the audio output over time.

## 關於「聲動之外」(Without Rhyme Sounds) ——為平劇鑼鼓與 Max 即時互動預置電腦音樂

當鑼鼓聲響起，在每個人懷著期待的內心深處，或有所思、必有所託。也許是期待預期的事件發生或是心靈的釋放，無論期待或是突然的衝擊，每個人的內心都會感受到不同的餘盪，從美學的角度來看，這是聲韻，是心聲靈動。

寫作動機便是因此而起。中西各有審美思惟，但抽象的音樂卻是跨越並超出在思想、情感的美感藝術思惟上。音樂刻意塑造在中國傳統的平劇鑼鼓與當今科技的電腦音樂上，透過兩者時序矛盾與聲響互動，營造出古今中外、外聲內蘊，聲動之外的超現實虛空世界。







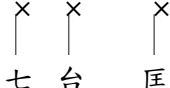

### 編制

平劇鑼鼓（堂鼓及板鼓、小鑼、鈸、大鑼）、電腦

### 配備

電腦、二聲道以上擴音器材、Max/MSP 軟體

### 演奏記號

	符桿上為堂鼓，符桿下為板鼓。		雙鈸互相摩擦。
	由慢至快之節奏張力。		用在鈸時，雙鈸沿邊快速碎碰。
	由快至慢之節奏鬆緩。		樂器置入水中演奏。
	鑼鼓經人聲朗誦。		Max/MSP 即時隨機處理預置聲頻之電腦象徵聲譜。



# 聲動之形

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♩ = c. 112 - 120

堂鼓  
板鼓

小鑼

鈸

大鑼

電腦

A

13

25

*rit.* *a tempo*

*p* *mf* *poco a poco cresc.*

36

*f* *mp* *f* *p* *f*

*f* *p* *f* *p* *f*

*f* *p* *f*

*f* *p* *f*

44 *accel.*

Musical score for measures 44-53. The score consists of four staves. The first staff has a tempo marking *accel.* above it. The time signatures change from 4/4 to 3/4 to 2/4. The second staff has a dynamic marking *mf* at the end. The third staff has a dynamic marking *p* at the end. Below the staves is a single waveform with a speaker icon at the beginning.

B 54 *a tempo*

Musical score for measures 54-63. The score consists of four staves. The first staff has a section marker **B** and a tempo marking *a tempo* above it. The dynamic markings *mf*, *fp*, *f*, *mf*, *mf*, *p*, *mf*, and *p* are placed throughout the score. Below the staves are two waveforms with speaker icons at the beginning and end of the section.

66 *accel.*

*p* *f* *mp* *f*

*p* *f* *mp* *f*

*mf* *cresc.* *f* *mp* *f*

*f* *mp* *f*

80 *a tempo*

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

*mf* *mf*

*p* *mf* *p* *mf* *p*

*mf*

98 C

Musical score for measures 98-111. The score consists of four staves. Measure 98 is marked with a circled 'C' and dynamics *pf* and *mf*. The time signature is  $\frac{2}{4}$ . The first staff contains a melody with various dynamics including *mf*, *p*, *mf*, and *pf*. The second staff contains a melody with dynamics *mf*, *p*, *mf*, and *f*. The third staff contains a melody with dynamics *mp*, *mf*, *mp*, *mf*, *mp*, *mf*, and *pf*. The fourth staff contains a melody with dynamics *mf* and *pf*. The time signature changes to  $\frac{3}{4}$  at the end of the system. A waveform visualization is shown at the bottom of the first system.

112

Musical score for measures 112-115. The score consists of four staves. Measure 112 is marked with a circled 'C' and dynamics *mf* and *mp*. The time signature is  $\frac{2}{4}$ . The first staff contains a melody with dynamics *mf*, *mp*, and *f*. The second staff contains a melody with dynamics *mf*, *mp*, and *f*. The third staff contains a melody with dynamics *mf*, *pp*, and *p f*. The fourth staff contains a melody with dynamics *mf*, *pp*, and *p f*. The time signature changes to  $\frac{3}{4}$  at the end of the system.



123

Musical score for measures 123-136. The score consists of four staves. The first staff has a treble clef and a key signature of one sharp (F#). The second and third staves have a bass clef. The fourth staff has a bass clef. The time signature changes from 2/4 to 3/4 and back to 2/4. Dynamics include *mf* and *f*. There are slurs and hairpins indicating dynamics.

137

Musical score for measures 137-144. The score consists of four staves. The first staff has a treble clef and a key signature of one sharp (F#). The second and third staves have a bass clef. The fourth staff has a bass clef. The time signature changes from 3/4 to 2/4. Dynamics include *f*, *mp*, *mf*, *cresc.*, *p*, and *mf*. There are slurs and hairpins indicating dynamics. A speaker icon and waveform are visible at the bottom right.

151

*sfz* *pp* *f* *p* *mf* *f* *mp* *f*

D

167

*rit.* *a tempo* *rit.*

*p* *f* *mp* *f* *f*

184 *a tempo* *mf* *f* *p* *mf* *rit.*

*mf* *f* *p* *mf* *rit.*

*mf*

*p* *mf* *p* *mf*

*mf*

199 *a tempo* *f* *mp* *f* *p* *f* *p* *f* *p* *f*

*f* *mp* *f* *p* *f* *p* *f* *p* *f*

*p* *mf* *cresc.* *f* *p* *f* *p* *f*

*f* *p* *f*

213 *p* *f* *accel.* E *a tempo*

4/4 3/4 2/4

226 *fp* *f* *mp* *f* *p* *mf* *p* *mf* *p* *f* *mf*

4/4 3/4 3/4 3/4

241

*accel.* *a tempo*

This musical score covers measures 241 to 254. It features four staves of music. The first staff has a 3/4 time signature, which changes to 2/4 at measure 242. The second staff has a 3/4 time signature, which changes to 2/4 at measure 242. The third and fourth staves have a 3/4 time signature, which changes to 2/4 at measure 242. The score includes various musical notations such as notes, rests, and dynamic markings. Dynamic markings include *pp*, *f*, *p*, and *mf*. There are also hairpins indicating volume changes. A fermata is present over a note in measure 254. Below the staves is a waveform visualization with a speaker icon at the beginning.

255

F

This musical score covers measures 255 to 264. It features four staves of music. The first staff has a 3/4 time signature, which changes to 2/4 at measure 256. The second staff has a 3/4 time signature, which changes to 2/4 at measure 256. The third and fourth staves have a 3/4 time signature, which changes to 2/4 at measure 256. The score includes various musical notations such as notes, rests, and dynamic markings. Dynamic markings include *mf*, *p*, *pp*, *f*, and *mp*. There are also hairpins indicating volume changes. A fermata is present over a note in measure 264. Below the staves is a waveform visualization with two speaker icons, one at the beginning and one at the end.

274

*p* *f* *mf* *f* *dim.*

*p* *f* *mf* *f* *dim.*

*p* *f* *mf* *f* *dim.*

*p* *f* *mf* *f* *dim.*

287

*p* *sempre simile* *cresc.*

*p* *sempre simile* *cresc.*

*p* *sempre simile* *cresc.*

*p* *sempre simile* *cresc.*

299

Musical score for measures 299-311. The score consists of four staves. The first staff features a melodic line with dynamic markings *mf*, *f*, *mp*, *mf*, and *f*. The second staff has a rhythmic accompaniment with *mf* and *mp* markings. The third and fourth staves provide harmonic support with *mf* and *f* markings. A fermata is present over the final note of the first staff in measure 311.

312

Musical score for measures 312-325. The score consists of four staves. The first staff has a melodic line with accents and triplets, ending with a fermata. The second staff features a rhythmic accompaniment with triplets and a *mf* marking. The third and fourth staves provide harmonic support with a *p* marking. A fermata is present over the final note of the first staff in measure 315.

