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Distill for orchestra and electric guitar

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Distill for orchestra and electric guitar

By

Daniel Herbert VanHassel

A dissertation submitted in partial satisfaction of the

requirements for the degree of

Doctor of Philosophy

in

Music

in the

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of the

University of California, Berkeley

Committee in charge:

Professor Edmund Campion, Chair

Professor Ken Ueno

Professor Cindy Cox

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Abstract

Distill for orchestra and electric guitar

by

Daniel Herbert VanHassel

Doctor of Philosophy in Music

University of California, Berkeley

Professor Edmund Campion, Chair

Distill is a musical composition for orchestra and electric guitar. The work marshals the power of the electric guitar to create a huge variety of tone color and texture ranging from intense noise to the purest harmony, a power that is also shared by the symphony orchestra. These two sonic forces interact with each other in a slowly evolving soundscape based on an underlying chord progression. Over the course of the piece this chord progression becomes progressively simpler until eventually it is distilled to its barest essence, that of a single note and its overtones.

DISTILL

for orchestra and electric guitar

Instrumentation

Piccolo

Flute

2 Oboes

Clarinet in B-flat

Bass Clarinet in B-flat (doubling on Clarinet in B-flat)

Bassoon

Contrabassoon (doubling on Bassoon)

4 Horns in F

2 Trumpets in C

2 Trombones

Tuba

Timpani (+ 2 large suspended cymbals)

Percussion 1 (large tam-tam)

Percussion 2 (medium and small suspended cymbals)

Percussion 3 (vibraphone, large tam-tam, bass drum)

Harp

Piano

Electric Guitar

Strings

DISTILL for orchestra and electric guitar

by Dan VanHassel

Guitar Tuning

The low E string is to be tuned down to E-flat. The guitar is notated at pitch in the score.

Guitar Effects

The guitar effects in this piece can be produced in two ways. The first (and preferred) method is through a combination of pedals and the computer program Max/MSP, in which different sound processing has been pre-programmed. This Max patch is available for download from the composer. The guitarist would need to provide: an e-bow, volume pedal, Digitech “Whammy Pedal”, expression pedal (for wah-wah effect), distortion pedal (or amp with distortion), and a computer with audio interface.

The second method is to reproduce the effects of the Max patch through the use of hardware effects and pedals. To this end I have documented as accurately as possible the parameters of the guitar processing. (See diagram on last page)

In the guitar part, each change in the processing is notated with a cue number that corresponds to the appropriate setting in the Max patch. Each setting is documented below.

Signal Chain: Guitar → Volume Pedal → Digitech “Whammy Pedal” → Distortion 1 → Distortion 2 → Wah-Wah → Delay 1 → Delay 2 → Amp

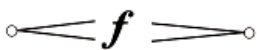
Diffusion & Mixing

At least two large full-range speakers should be set up on the stage for diffusion of the guitar. Mix should be set so that the guitar and orchestra are roughly equivalent in terms of volume.

Equipment/Settings

Guitar Tone: Use bridge pickup. Tone should be bright but not overly harsh.

E-bow: A handheld electronic bow for guitar. Uses a magnet to allow for infinite sustain without a sharp attack.

Volume Pedal:  = use volume pedal to crescendo and decrescendo from nothing to maximum level and back to nothing. Level should be set to balance with orchestra with volume pedal at maximum level (in order to maximize distortion effect).

Digitech “Whammy Pedal”: This pedal is used for transposition, as well as a specific color of noise that it produces when overloaded. For this reason, all efforts should be made to use this specific brand of pedal. The guitarist switches settings between transposing “up two octaves” and “down one octave” as indicated in the score. If this pedal is not available, a

different transposition effect can be substituted either through a different hardware device or Max/MSP.

Distortion 1&2: Distortion 1 should be *very* heavy and fuzzy. Distortion 2 should be heavy as well, but not as extreme as the first. It should have a clearer, less saturated sound.

Wah-Wah: A dynamic low pass filter used for slow frequency sweeps. This effect is programmed in the Max patch and can be implemented with an expression pedal. A commercial wah-wah pedal could also be substituted.

+ = closed o = open

Delay 1&2: Echo effect. Two delays are used to create a thick cloud of sound without a clear pulse. This effect is programmed in the Max patch, but could also be reproduced using hardware delay units.

Max/MSP Cue Settings

Cue 1 (m. 1-181)

Wah-Wah: Frequency range: 500-5000 Hz. Q: 1.8,

Delays: Delay 1 is a variable speed delay, continuously looping a ramp from 80-3000 ms in 1 sec. and back to 80 ms in 1 sec. Feedback: 80%

Delay 2 is a simple delay set at: 360 ms and 70% feedback.

Distortion: Distortion 1 is ON. Distortion 2 OFF

Cue 2 (m. 203-243)

Wah-Wah: Frequency range: 500-3500 Hz. Q: 1.8

Delays: Delay 1 is OFF

Delay 2: 360 ms and 75% feedback.

Distortion: Distortion 1 is OFF. Distortion 2 is ON

Cue 3 (m. 248-283)

Same as Cue 1

Cue 4 (m. 288-364)

Wah-Wah: Frequency range: 500-3500 Hz. Q: 1.8,

Delays: Delay 1 ON (same settings as Cue 1)

Delay 2: 360 ms and 89% feedback.

Distortion: Distortion 1 & 2 are OFF.

Cue 5 (m. 407-467)

Same as Cue 1

DISTILL
for orchestra and electric guitar

Dan VanHassel

Evocative ♩=80

The image displays a page from a musical score, likely for a symphony orchestra. The score is written for multiple instruments, including woodwinds, brass, percussion, strings, and an electric guitar. The notation is in 4/4 time, with a key signature of one flat (Bb). The score includes various musical notations, such as notes, rests, and dynamic markings (e.g., *mp*, *f*). There are also performance instructions, such as "Place large cymbals on 32\" and 29\" timpani heads" and "Whammy Pedal On (up 2 oct.)". The score is divided into systems, with each system containing staves for different instruments. The instruments listed are Piccolo, Flute, Oboe 1, Oboe 2, Clarinet in Bb, Bass Clarinet in Bb, Bassoon, Contrabassoon, Horn in F 1&2, Horn in F 3&4, Trumpet in C 1&2, Trombone 1&2, Tuba, Timpani, Percussion 1, Percussion 2, Percussion 3, Harp, Piano, Electric Guitar, Violin 1, Violin 2, Viola, Violoncello, and Contrabass. The score is written in a standard musical notation, with notes, rests, and dynamic markings. The page is numbered 10 in the top right corner.

A

Picc. *n* *f* *n* *f* *n*

Fl. *n* *f* *n*

Ob. 1 *n* *f* *n* *f*

Ob. 2

Cl. 1 *n* *f*

B. Cl.

Bsn. 1

Cbsn.

Hr. 1&2

Hr. 3&4

Tpt. 1&2

Tbn. 1&2

Tba.

Timp. 32" *n* *mf* 29" *n* *mf* 32" *n* *mf*

Perc. 1 *mf* *n* *mf* (l.v. sempre) *bow for full notated length with heavy pressure to produce blossoming harmonics

Perc. 2 *arco* *n* *f* *n* *f* *n* *f*

Perc. 3 *Vibraphone* *n* *mf* hold pedal throughout this section, change only when harmony changes

Hp. *f*

Pno.

E. Gtr. *Whammy Off* *e-bow (standard mode)* *f*

A

Vln. 1 *unis.* *n* *f* *n* *f* *n*

Vln. 2 *n* *f* *n* *f* *n* *f*

Vla. *n* *f* *n* *f*

Vc. *n* *f* *n* *f*

Cb. *n* *f* *n* *f*

26 **B**

Picc. *f*

Fl. *n* *f* *n* *f*

Ob. 1 *n* *f* *n*

Ob. 2 *n* *f* *n*

Cl. 1 *n* *f*

B. Cl.

Bsn. 1

Cbsn.

Hn. 1&2 *n* *mp* *n* *mp* *n* *mp* *n* *mp*

Hn. 3&4 *n* *mp* *n* *mp* *n* *mp* *n* *mp*

Tpt. 1&2 *n* *mp* *n* *mp* *n* *mp* *n* *mp*

Tbn. 1&2 *n* *mp* *n* *mp* *n* *mp* *n* *mp*

Tba. *n* *mp* *n* *mp* *n* *mp* *n* *mp*

Timp. *n* *mf* *n* *mf* *n* *mf* *n* *mf*

Perc. 1 *n* *mf* *n* *mf* *n* *mf* *n* *mf*

Perc. 2 *n* *f* *n* *f* *n* *f* *n* *f*

Perc. 3 *n* *f* *n* *f* *n* *f* *n* *f*

Hp.

Pno.

E. Gtr.

26 **B**

Vln. 1 *f* *n* *f*

Vln. 2 *n* *f* *n*

Vla. *n* *f* *n*

Vc. *n* *f* *n*

Cb. *n* *f* *n*

40

Picc. *f* *n* *f* *n*

Fl. *n* *f* *n*

Ob. 1 *n* *f* *n*

Ob. 2 *n* *f* *n*

Cl. 1 *n* *f* *n* *f*

B. Cl. *f* *n* *f* *n* *f*

Bsn. 1 *n* *f* *n* *f* *n* *f*

Cbsn. *n* *f* *n* *f* *n*

Hn. 1&2 *n* *mp* *n* *mp* *n* *mp* *n*

Hn. 3&4 *mp* *n* *mp* *n* *mp* *n*

Tpt. 1&2 *straight mute* *n* *mp* *n* *mp* *n*

Tbn. 1&2 *mp* *n* *mp* *n* *mp* *n*

Tba. *n* *mf*

Timp. *29"* *n* *mf* *32"* *n* *mf*

Perc. 1 *mf*

Perc. 2 *n* *f* *n* *f* *n* *mf* *soft mallets*

Perc. 3 *f*

Hp.

Pno. *[chords]*

E. Gtr. *f*

40

Vln. 1 *n* *f* *n*

Vln. 2 *n* *f*

Vla.

Vc.

Cb. *n* *f* *n* *f* *n*

C

**repeat pattern as fast as possible for the duration indicated, all on one breath*

Picc. *n* *f* *n*

Fl. *n* *f* *n*

Ob. 1 *n* *f* *n*

Ob. 2 *n* *f* *n*

Cl. 1 *n* *f* *n*

B. Cl. *n* *f* *n*

Bsn. 1 *n* *f* *n*

Cbsn. *n* *f* *n*

Hn. 1&2 *n* *mp* *n*

Hn. 3&4 *n* *mp* *n*

Tpt. 1&2 *n* *mp* *n*

Tbn. 1&2 *n* *mf* *n*

Tba. *n* *mf* *n*

Timp. *n* *mf* *n*

Perc. 1 *mf* *arco* *f* *soft mallets* *n*

Perc. 2 *n* *f* *n* *f* *n*

Perc. 3 *n* *f* *n*

Hp. *n* *f* *n*

Pno. *n* *f* *n*

E. Gtr. *n* *f* *n*

C

Vln. 1 *n* *f* *n*

Vln. 2 *n* *f* *n*

Vla. *n* *f* *n*

Vc. *n* *f* *n*

Cb. *n* *f* *n*

55

Picc. *f* *n* *f* *n*

Fl. *f* *n* *f* *n*

Ob. 1 *f* *n* *f* *n*

Ob. 2 *f* *n* *f* *n*

Cl. 1 *f* *n* *f* *n*

B. Cl. *f* *n* *f* *n*

Bsn. 1 *f* *n* *f* *n*

Cbsn. *f* *n* *f* *n*

Hn. 1&2

Hn. 3&4

Tpt. 1&2

Tbn. 1&2

Tba. *mf* *n*

Timp. *mf* *n*

Perc. 1 *mf* *n* *f* *n*

Perc. 2 *mf* *n* *f* *n*

Perc. 3 *mf* *n* *f* *n*

Hp. *mf* *n* *f* *n*

Pno. *mf* *n* *f* *n*

E. Gtr. *f* *n* *f* *n*

Vln. 1 *f* *n* *f* *n*

Vln. 2 *f* *n* *f* *n*

Vla. *f* *n* *f* *n*

Vc. *f* *n* *f* *n*

Cb. *f* *n* *f* *n*

**repeat pattern as fast as possible for the duration indicated, all on one breath*

32"

55

63

D

Picc. *n* *f* *n*

Fl. *n* *f* *n*

Ob. 1 *n* *f* *n*

Ob. 2 *n* *f* *n*

Cl. 1

B. Cl. *n* *f* *n*

Bsn. 1

Cbsn. *n* *f* *n*

Hn. 1&2 *n* *mf* *n* *mf*

Hn. 3&4

Tpt. 1&2

Tbn. 1&2

Tba.

Timp. 29" *n* *mf*

Perc. 1 *n* *mf*

Perc. 2 *n* *soft mallets*

Perc. 3

Hp.

Pno.

E. Gtr. *f*

63

D

Vln. 1 *n* *f* *p* *f*

Vln. 2 *f* *n*

Vla.

Vc. *mix* *n* *f* *n* *f*

Cb. *n* *f* *n* *f* *n*

79 **E**

Picc. *f* *n*

Fl. *f* *n*

Ob. 1 *f* *n*

Ob. 2 *f* *n*

Cl. 1

B. Cl. *f* *n*

Bsn. 1 *f* *n*

Cbsn. *f* *n*

Hr. 1&2 *mf* *n*

Hr. 3&4

Tpt. 1&2

Tbn. 1&2

Tba. *mf* *n*

Timp.

Perc. 1 *mf* *f*

Perc. 2 *f*

Perc. 3

Hp.

Pno.

E. Gtr. *f* *f*

79 **E**

Vln. 1 *f* *p* *f* *n*

Vln. 2 *f* *n* *f*

Vla.

Vc. *f* *n* *f*

Cb. *n* *f* *n* *f*

Whammy On (up 2 oct.)

87

F

Picc. *n* *f* *n*

Fl. *n* *f* *n*

Ob. 1 *n* *f* *n*

Ob. 2 *n* *f* *n*

Cl. 1 *n* *f* *n*

B. Cl. *n* *f* *n*

Bsn. 1 *n* *f* *n*

Cbsn. *n* *f* *n*

Hn. 1&2 *n* *f* *n*

Hn. 3&4 *n* *f* *n*

Tpt. 1&2 *n* *f* *n*

Tbn. 1&2 *n* *f* *n*

Tba. *n* *f* *n*

Timp. *n* *mf*

Perc. 1 *n* *f* *n*

Perc. 2 *n* *f* *n*

Perc. 3 *n* *f* *n*

Hp. *n* *f* *n*

Pno. *n* *f* *n*

E. Gtr. *n* *f* *n*

Vln. 1 *n* *f* *n*

Vln. 2 *n* *f* *n*

Vla. *n* *f* *n*

Vc. *n* *f* *n*

Cb. *n* *f* *n*

32"

harmon mute

(strum)

Whammy On (down 1 oct.)

e-bow

F

97

Picc.

Fl.

Ob. 1

Ob. 2

Cl. 1

B. Cl.

Bsn. 1

Cbss.

Hr. 1&2

Hr. 3&4

Tpt. 1&2

Tbn. 1&2

Tba.

Timp.

Perc. 1

Perc. 2

Perc. 3

Hp.

Pno.

E. Gtr.

97

Vln. 1

Vln. 2

Vla.

Vc.

Cb.

The musical score for measures 97-100 is presented in a standard orchestral layout. The woodwind section includes Piccolo, Flute, Oboe 1 and 2, Clarinet 1, Bass Clarinet, Bassoon 1, and Contrabassoon. The brass section consists of Horn 1&2, Horn 3&4, Trumpet 1&2, Trombone 1&2, and Tuba. The percussion section includes Percussion 1, 2, and 3, Harp, and Piano. The string section includes Electric Guitar, Violins 1 and 2, Viola, Violoncello, and Contrabass. The score features various musical notations including notes, rests, dynamics (n, f, mp, ff), and performance instructions like 'stopped' and 'harmon mite'. The score is written in a single system with multiple staves for each instrument.

[illegible]

113

Picc. *f* *n*

Fl. *f* *n*

Ob. 1 *f* *n*

Ob. 2 *f* *n*

Cl. 1 *n* *f* *mp* *f* *mp* *f* *n*

B. Cl. *n* *f* *n*

Bsn. 1 *n* *f* *mp* *f* *mp* *f* *n*

Cbn. *n* *f* *n*

Hn. 1&2 *n* *mp* *n* *mf* *n* *mf* *n*

Hn. 3&4 *n* *mp* *n* *mp* *n* *mf* *n*

Tpt. 1&2 *n* *mf* *n* *mf* *n*

Tbn. 1&2 *n*

Tba. *n* *mp* *n*

Timp. *arco* 29" *f*

Perc. 1

Perc. 2 *arco* *f*

Perc. 3

Hp. *f*

Pno. *f*

E. Gtr. *Whammy Off* *f*

113

Vln. 1

Vln. 2

Vla. *n* *f* *mp* *f* *mp* *f*

Vc. *n* *f* *mp* *f* *mp* *f*

Cb. *n* *f*

122

H

Picc. *f*

Fl. *f*

Ob. 1 *f*

Ob. 2 *f*

Cl. 1 *f*

B. Cl. *f*

Bsn. 1 *f*

Cbsn. *f*

Hn. 1&2 *mp*

Hn. 3&4 *mf*

Tpt. 1&2 *mf*

Tbn. 1&2 *mf*

Tba. *mf*

Timp. *f*

Perc. 1

Perc. 2 *f*

Perc. 3

Hp. *f*

Pno. *f*

E. Gtr. *f*

Whammy On (2 oct. up)
pick

H

Vln. 1

Vln. 2

Vla. *f*

Vc. *f*

Cb. *mf*

122

136 1

Picc.

Fl.

Ob. 1

Ob. 2

Cl. 1

B. Cl.

Bsn. 1

Cbsn.

Hn. 1&2

Hn. 3&4

Tpt. 1&2

Tbn. 1&2

Tba.

Timp.

Perc. 1

Perc. 2

Perc. 3

Hp.

Pno.

E. Gtr.

136 1

Vln. 1

Vln. 2

Vla.

Vc.

Cb.

150

The score is divided into two systems. The first system (measures 150-154) includes:

- Picc.**: Piccolo, starting with a forte (*f*) dynamic.
- Fl.**: Flute, with dynamics *n* and *f*.
- Ob. 1**: Oboe 1, with dynamics *n* and *f*.
- Ob. 2**: Oboe 2, with dynamics *n* and *f*.
- Cl. 1**: Clarinet 1, with dynamics *n* and *f*.
- B. Cl.**: Bass Clarinet, with dynamics *n* and *f*.
- Bsn. 1**: Bassoon 1, with dynamics *n* and *f*.
- Cbsn.**: Contrabassoon, with dynamics *n* and *f*.
- Hn. 1&2**: Horns 1 and 2, with dynamics *n* and *f*.
- Hn. 3&4**: Horns 3 and 4, with dynamics *n* and *f*.
- Tpt. 1&2**: Trumpets 1 and 2, with dynamics *n* and *f*.
- Tbn. 1&2**: Trombones 1 and 2, with dynamics *n* and *f*.
- Tba.**: Tuba, with dynamics *n* and *f*.
- Timp.**: Timpani, with dynamics *n* and *f*.
- Perc. 1**: Percussion 1, with dynamics *mp* and *pp*.
- Perc. 2**: Percussion 2, with dynamics *mf* and *n*.
- Perc. 3**: Percussion 3, with dynamics *mf* and *n*.
- Hp.**: Harp, with dynamics *mf* and *n*.
- Pno.**: Piano, with dynamics *mf* and *n*.
- E. Gtr.**: Electric Guitar, with dynamics *f* and *n*.

The second system (measures 150-154) includes:

- Vln. 1**: Violin 1, with dynamics *n* and *f*.
- Vln. 2**: Violin 2, with dynamics *n* and *f*.
- Vla.**: Viola, with dynamics *n* and *f*.
- Vc.**: Violoncello, with dynamics *n* and *f*.
- Cb.**: Contrabass, with dynamics *n* and *f*.

The score features various musical notations including notes, rests, slurs, and dynamic markings (*f*, *n*, *mf*, *mp*, *pp*). The tempo is marked 150.

159

Pic.

Fl.

Ob. 1

Ob. 2

Cl. 1

B. Cl.

Bsn. 1

Cbsn.

Hn. 1&2

Hn. 3&4

Tpt. 1&2

Tbn. 1&2

Tba.

Timp.

Perc. 1

Perc. 2

Perc. 3

Hp.

Pno.

E. Gtr.

Vln. 1

Vln. 2

Vla.

Vc.

Cb.

159

J

177 **K** Aggressive! ♩=108 (♩. = ♩)

Picc.

Fl.

Ob. 1

Ob. 2

Cl. 1

B. Cl.

Bsn. 1

Cbsn.

Hn. 1&2

Hn. 3&4

Tpt. 1&2

Tbn. 1&2

Tba.

Timp.

Perc. 1

Perc. 2

Perc. 3

Hp.

Pno.

E. Gtr.

177 **K**

Vln. 1

Vln. 2

Vla.

Vc.

Ch.

[illegible]

L

Picc. Fl. Ob. 1 Ob. 2 Cl. 1 B. Cl. Bsn. 1 Cbn. Hn. 1&2 Hn. 3&4 Tpt. 1&2 Tbn. 1&2 Tba. Timp. Perc. 1 Perc. 2 Perc. 3 Hp. Pno. E. Gtr. Vln. 1 Vln. 2 Vla. Vc. Cb.

Cue 2 *Whammy Off*

(hammer-ons) *f*

L

sul A *f*

sul D *f*

f

207

Picc. *p poss.* *f*

Fl. *p poss.* *f*

Ob. 1 *p poss.* *f*

Ob. 2 *p poss.* *f*

Cl. 1

B. Cl.

Bsn. 1

Chsn.

Hn. 1&2

Hn. 3&4

Tpt. 1&2

Tbn. 1&2

Tba.

Timp. *mf* *ff*

Perc. 1 *ff*

Perc. 2 *n*

Perc. 3 *ff*

Hp.

Pno.

E. Gtr. *ff*

207

Vln. 1 *n*

Vln. 2 *n*

Vla. *n*

Vc. *n*

Cb. *n*

212

Picc. *p* *poss.* *f*
 Fl. *p* *poss.* *f*
 Ob. 1 *p* *poss.* *f*
 Ob. 2 *p* *poss.* *f*
 Cl. 1 *f*
 B. Cl. *f*
 Bsn. 1 *f*
 Cbsn. *f*
 Hn. 1&2 *f*
 Hn. 3&4 *f*
 Tpt. 1&2 *f*
 Tbn. 1&2 *f*
 Tba. *f*
 Timp. *mf* *ff* *mf* *ff*
 Perc. 1 *p*
 Perc. 2 *ff*
 Perc. 3 *p*
 Hp.
 Pno.
 E. Gtr. *f*
 Vln. 1
 Vln. 2
 Vla.
 Vc.
 Cb. *f*

221 (tr)

Picc.

Fl.

Ob. 1

Ob. 2

Cl. 1

B. Cl.

Bsn. 1

Cbsn.

Hn. 1&2

Hn. 3&4

Tpt. 1&2

Tbn. 1&2

Tba.

Timp.

Perc. 1

Perc. 2

Perc. 3

Hp.

Pno.

E. Gtr.

221

Vln. 1

Vln. 2

Vla.

Vc.

Cb.

mf

ff

p

harmon mute

f

n

7

6

225 (tr)

M

Picc. *n*

Fl. *n*

Ob. 1 *n*

Ob. 2

Cl. 1 *n*

B. Cl.

Bsn. 1

Cbsn. *n* *f*

Hn. 1&2 *n* *f* *n*

Hn. 3&4 *n* *f* *n*

Tpt. 1&2 *n*

Tbn. 1&2 *n*

Tba. *n* *f* *n*

Timp. *mf* *ff* *mf*

Perc. 1 *p*

Perc. 2 *ff*

Perc. 3 *p*

Hp.

Pno.

E. Gtr. *repeat pattern as fast as possible*

225

M

Vln. 1

Vln. 2

Vla.

Vc.

Ch. *n* *f*

232

Picc. *n* *f*

Fl. *n* *f*

Ob. 1 *n* *f*

Ob. 2

Cl. 1 *n* *f*

B. Cl.

Bsn. 1

Chsn.

Hr. 1&2 *n* *f*

Hr. 3&4 *n* *f*

Tpt. 1&2

Tbn. 1&2

Tba. *n* *f*

Timp. *ff* *mf*

Perc. 1 *ff*

Perc. 2 *n*

Perc. 3

Hp.

Pno.

E. Gr. *repeat pattern as fast as possible*

232

Vln. 1

Vln. 2

Vla.

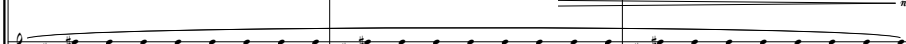
Vc.

Cb. *n*

236

Picc. 

Fl. 

Ob. 1 

Ob. 2 

Cl. 1 

B. Cl. 

Bsn. 1 

Cbsn. 

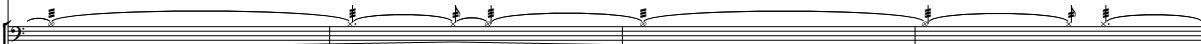
Hr. 1&2 

Hr. 3&4 

Tpt. 1&2 

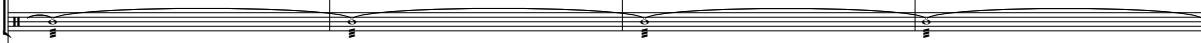
Tbn. 1&2 

Tba. 

Timp. 

Perc. 1 

Perc. 2 

Perc. 3 

Hp. 

Pno. 

E. Gtr. 

236

Vln. 1 

Vln. 2 

Vla. 

Vc. 

Cb. 

240

Picc. *f* *n*

Fl. *f* *n*

Ob. 1 *f* *n*

Ob. 2 *f* *n*

Cl. 1 *f* *n*

B. Cl. *f* *n*

Bsn. 1 *f* *n*

Cbsn. *f* *n*

Hn. 1&2 *f*

Hn. 3&4 *f*

Tpt. 1&2 *n* (harmon mute) *f* *n*

Tbn. 1&2 *n*

Tba. *n*

Timp. *ff* *mf* *ff* *mf*

Perc. 1 *p* *ff*

Perc. 2 *n* *ff*

Perc. 3 *p*

Hp. *f*

Pno. *f*

E. Gtr. *f* **Cue 3** Whammy On (2 oct. up)

240

Vln. 1 *f* *n* *f*

Vln. 2 *f* *n* *f* *sal A* *sal G*

Vla. *f* *n*

Vc. *f* *n*

Cb. *f* *n*

249

Picc. *f*

Fl. *f*

Ob. 1 *f*

Ob. 2 *f*

Cl. 1 *f*

B. Cl. *To Clarinet in B $\flat$* *f*

Bsn. 1 *To Bassoon* *f*

Cbsn. *f*

Hr. 1&2

Hr. 3&4

Tpt. 1&2

Tbn. 1&2 *plunger mute* *f*

Tba. *f*

Timp. *ff* *mf* *ff* *mf*

Perc. 1 *p* *ff*

Perc. 2 *n* *ff*

Perc. 3 *ff* *p*

Hp.

Pno.

E. Gtr.

Vln. 1 *n* *f*

Vln. 2 *n* *f*

Vla. *div.* *f*

Vc. *div.* *f*

Cb. *n* *mf* *n*

259 **O**

Picc. *f* *n*

Fl. *f* *n* (7)

Ob. 1 *f* *n*

Ob. 2 *f* *n*

Cl. 1 *f* *n* (7)

B. Cl. *f* *n*

Bsn. 1 *f* *n*

Cbsn. *f* *n*

Hn. 1&2 *f* *n*

Hn. 3&4 *f* *n*

Tpt. 1&2 *f* *n*

Tbn. 1&2 *f* *n*

Tba. *f* *n*

Timp. *ff* *mf* *ff* *mf*

Perc. 1 *p* *ff*

Perc. 2 *ff* *n*

Perc. 3 *ff*

Hp. *f* *n*

Pno. *f* *n*

E. Gtr. *f* *n*

259 **O**

Vln. 1 *f* *n* *sul E* *f*

Vln. 2 *f* *n* *sul A* *f*

Vla. *f* *n* *sul D* *f*

Vc. *f* *n* *sul A* *f*

Cb. *f* *n* *sul D* *f*

267

Picc. *f* *n*

Fl. *f* *n*

Ob. 1 *f* *n* (♯) (♭)

Ob. 2 *f* *n* (♯) (♭)

Cl. 1 *f* *n*

B. Cl. *f* *n*

Bsn. 1 *f* *n*

Cbsn. *f* *n*

Hn. 1&2 *f* *n*

Hn. 3&4 *f* *n*

Tpt. 1&2 *f* *n*

Tbn. 1&2 *f* *n*

Tba. *f* *n*

Timp. *ff* *mf* *ff* *mf*

Perc. 1 *ff* *p*

Perc. 2 *ff* *n*

Perc. 3 *p*

Hp. *f*

Pno. *f*

E. Gtr. *f* *n*

267

Vln. 1 *f* *n* *sul A* *f*

Vln. 2 *f* *n* *sul A* *f*

Vla. *f* *n* *sul A* *f*

Vc. *f* *n* *sul A* *f*

Cb. *mf* *n*

276

Picc. *f* *n*

Fl. *f* *n*

Ob. 1 *f* *n*

Ob. 2 *f* *n*

Cl. 1 *f* *n*

B. Cl. *f* *n*

Bsn. 1

Cbsn.

Hn. 1&2

Hn. 3&4

Tpt. 1&2

Tbn. 1&2 *f* *n*

Tba. *f* *n*

Timp. *ff* *mf* *ff* *mf* *ff*

Perc. 1 *ff* *p*

Perc. 2 *ff* *n*

Perc. 3 *ff*

Hp.

Pno.

E. Gtr.

276

Vln. 1 *n* *f* *n*

Vln. 2 *n* *f* *n*

Vla. *n* *f* *n*

Vc. *n* *f* *n*

Cb. *n* *mf*

307 **Q**

Picc.

Fl.

Ob. 1

Ob. 2

Cl. 1

B. Cl.

Bsn. 1

Cbn.

Hn. 1&2

Hn. 3&4

Tpt. 1&2

Tbn. 1&2

Tba.

Timp.

Perc. 1

Perc. 2

Perc. 3

Hp.

Pno.

E. Gtr.

307 **Q** *sul A* like a faint echo of a melody, struggling to be heard

Vln. 1

Vln. 2

Vla.

Vc.

Ch.

317

Picc.

Fl.

Ob. 1

Ob. 2

Cl. 1

B. Cl.

Bsn. 1

Cbsn.

Hn. 1&2

Hn. 3&4

Tpt. 1&2

Tbn. 1&2

Tba.

Timp.

Perc. 1

Perc. 2

Perc. 3

Hp.

Pno.

E. Gtr.

Vln. 1

Vln. 2

Vla.

Vc.

Ch.

n *mf* *n* *mp* *n*

mf *p* *mf* *p*

pp *mp*

n *mf* *n* *mp* *n*

8va *8va*

317

326 R

Picc.

Fl.

Ob. 1

Ob. 2

Cl. 1

B. Cl.

Bsn. 1

Cbsn.

Hn. 1&2

Hn. 3&4

Tpt. 1&2

Tbn. 1&2

Tba.

Timp.

Perc. 1

Perc. 2

Perc. 3

Hp.

Pno.

E. Gtr.

326 R

Vln. 1

Vln. 2

Vla.

Vc.

Ch.

336

Picc.

Fl.

Ob. 1

Ob. 2

Cl. 1

B. Cl.

Bsn. 1

Cbsn.

Hn. 1&2

Hn. 3&4

Tpt. 1&2

Tbn. 1&2

Tba.

Timp.

Perc. 1

Perc. 2

Perc. 3

Hp.

Pno.

E. Gtr.

336

Vln. 1

Vln. 2

Vla.

Vc.

Ch.

*arpeggiate as fast as possible
a blurry resonance of harmony; dream-like*

sustain and soft pedal (sempre!)

345

Picc.

Fl.

Ob. 1

Ob. 2

Cl. 1

B. Cl.

Bsn. 1

Chsn.

Hn. 1&2

Hn. 3&4

Tpt. 1&2

Tbn. 1&2

Tba.

Timp.

Perc. 1

Perc. 2

Perc. 3

Hp.

Pno.

E. Gtr.

345

Vln. 1

Vln. 2

Vla.

Vc.

Ch.

Detailed description of the musical score page: This page is a musical score for a large ensemble, likely a symphony or concert band. It contains 21 staves. The instruments listed on the left are: Piccolo (Picc.), Flute (Fl.), Oboe 1 (Ob. 1), Oboe 2 (Ob. 2), Clarinet 1 (Cl. 1), Bass Clarinet (B. Cl.), Bassoon 1 (Bsn. 1), Contrabassoon (Chsn.), Horns 1&2 (Hn. 1&2), Horns 3&4 (Hn. 3&4), Trumpets 1&2 (Tpt. 1&2), Trombones 1&2 (Tbn. 1&2), Tuba (Tba.), Timpani (Timp.), Percussion 1 (Perc. 1), Percussion 2 (Perc. 2), Percussion 3 (Perc. 3), Harp (Hp.), Piano (Pno.), Electric Guitar (E. Gtr.), Violin 1 (Vln. 1), Violin 2 (Vln. 2), Viola (Vla.), Violoncello (Vc.), and Double Bass (Ch.). The score is for measures 345 through 353. Most staves are empty, indicating rests. The Piano (Pno.) staff has musical notation starting in measure 345, including a piano (p) dynamic marking. The Electric Guitar (E. Gtr.) staff has musical notation throughout the page, with a measure number '345' written below the first measure. The notation includes various note values, rests, and articulation marks.

S

strict and even, very light

Picc. *n* *p*

Fl. *strict and even, very light* *n* *p*

Ob. 1

Ob. 2

Cl. 1

B. Cl.

Bsn. 1

Cbsn.

Hn. 1&2

Hn. 3&4

Tpt. 1&2

Tbn. 1&2

Tba.

Timp.

Perc. 1

Perc. 2

Perc. 3 *Vibraphone* *n* *mp*
hold pedal (change with harmony)

Hp. *n*

Pno.

E. Gtr.

S

Vln. 1

Vln. 2

Vla.

Vc.

Cb.

360

Picc. *strict and even, very light*

Fl.

Ob. 1 *n*

Ob. 2 *p* *strict and even, very light*

Cl. 1 *n* *p*

B. Cl. *Clarinet in Bb* *p* *strict and even, very light*

Bsn. 1

Cbsn.

Hn. 1&2

Hn. 3&4

Tpt. 1&2

Tbn. 1&2

Tba.

Timp.

Perc. 1

Perc. 2

Perc. 3

Hp. *mf*

Pno.

E. Gtr.

360

Vln. 1

Vln. 2

Vla.

Vc.

Cb.

365

Picc.

Fl.

Ob. 1

Ob. 2

Cl. 1

Cl. 2

Bsn. 1

Cbsn.

Hn. 1&2

Hn. 3&4

Tpt. 1&2

Tbn. 1&2

Tba.

Timp.

Perc. 1

Perc. 2

Perc. 3

Hp.

Pno.

E. Gtr.

Vln. 1

Vln. 2

Vla.

Vc.

Ch.

370

Picc. *[Musical notation]*

Fl. *[Musical notation]*

Ob. 1 *[Musical notation]*

Ob. 2 *[Musical notation]*

Cl. 1 *[Musical notation]*

Cl. 2 *[Musical notation]*

Bsn. 1 *[Musical notation]*

Cbsn. *[Musical notation]*

Hr. 1&2 *[Musical notation]*

Hr. 3&4 *[Musical notation]*

Tpt. 1&2 *[Musical notation]*

Tbn. 1&2 *[Musical notation]*

Tba. *[Musical notation]*

Timp. *[Musical notation]*

Perc. 1 *[Musical notation]*

Perc. 2 *[Musical notation]*

Perc. 3 *[Musical notation]*

Hp. *[Musical notation]*

Pno. *[Musical notation]*
light
continue holding sustain pedal (change with harmony)

E. Gtr. *[Musical notation]*

370

Vln. 1 *[Musical notation]*

Vln. 2 *[Musical notation]*

Vla. *[Musical notation]*

Vc. *[Musical notation]*

Cb. *[Musical notation]*

T

Picc. *very short and even, light*

Fl.

Ob. 1

Ob. 2

Cl. 1

Cl. 2

Bsn. 1 *very short and even, light*

Bsn. 2 *very short and even, light*

Hn. 1&2

Hn. 3&4

Tpt. 1&2

Tbn. 1&2

Tba.

Timp.

Perc. 1

Perc. 2

Perc. 3

Hp.

Pno.

E. Gtr.

T

Vln. 1

Vln. 2

Vla.

Vc.

Cb.

380

Picc.

Fl.

Ob. 1

Ob. 2

Cl. 1

Cl. 2

Bsn. 1

Bsn. 2

Hn. 1&2

Hn. 3&4

Tpt. 1&2

Tbn. 1&2

Tba.

Timp.

Perc. 1

Perc. 2

Perc. 3

Hp.

Pno.

E. Gtr.

380

Vln. 1

Vln. 2

Vla.

Vc.

Cb.

div.

n

n

385

Picc. *f*

Fl.

Ob. 1

Ob. 2

Cl. 1

Cl. 2

Bsn. 1

Bsn. 2

Hn. 1&2

Hn. 3&4

Tpt. 1&2

Tbn. 1&2

Tba.

Timp.

Perc. 1

Perc. 2

Perc. 3 *no pedal*
p *f*

Hp.

Pno.

E. Gr.

385

Vln. 1

Vln. 2

Vla.

Vc.

Cb.

div.

f

389 U

Picc. *f*

Fl. *f*

Ob. 1 *f*

Ob. 2 *f*

Cl. 1 *f*

Cl. 2 *f*

Bsn. 1 *f*

Bsn. 2 *f*

Hn. 1&2 *mf*

Hn. 3&4 *mf*

Tpt. 1&2 *mf* *straight mute*

Tbn. 1&2 *mf*

Tba. *mf*

Timp. *mf*

Perc. 1 *mf*

Perc. 2 *mf*

Perc. 3 *mf*

Hp. *f*

Pno. *f*

E. Gtr. *f*

389 U

Vln. 1 *f*

Vln. 2 *f*

Vla. *f*

Vc. *f*

Ch. *f*

393

Picc. *f*

Fl. *f*

Ob. 1 *f*

Ob. 2 *f*

Cl. 1 *f*

Cl. 2 *f*

Bsn. 1 *f*

Bsn. 2 *f*

Hn. 1&2 *mf*

Hn. 3&4 *mf*

Tpt. 1&2 *mp*

Tbn. 1&2 *f*

Tba. *f*

Timp. *f*

Perc. 1

Perc. 2

Perc. 3 *f*

Hp. *f*

Pno. *f*

E. Gtr. *f*

393 *div.*

Vln. 1 *f*

Vln. 2 *f*

Vla. *f*

Vc. *f*

Ch. *f*

398

Picc. *f*

Fl. *f*

Ob. 1 *f*

Ob. 2 *f*

Cl. 1 *f*

Cl. 2 *f*

Bsn. 1 *f*

Bsn. 2 *f*

Hn. 1&2 *mf* *n* *f*

Hn. 3&4 *mf* *n* *f*

Tpt. 1&2 *f*

Tbn. 1&2 *f*

Tba. *f*

Timp.

Perc. 1

Perc. 2

Perc. 3

Hp.

Pno.

E. Gtr.

398

Vln. 1 *f*

Vln. 2 *f*

Vla.

Vc.

Cb.

403

Picc. *f*

Fl. *f*

Ob. 1 *f*

Ob. 2 *f*

Cl. 1 *f*

Cl. 2 *f*

Bsn. 1 *f*

Bsn. 2 *f*

Hn. 1&2 *f*

Hn. 3&4 *f*

Tpt. 1&2 *f*

Tbn. 1&2 *f*

Tba. *f*

Timp. *f*

Perc. 1 *f*

Perc. 2 *f*

Perc. 3 *f*

Hp. *f*

Pno. *f*

E. Gtr. *f*

403

Vln. 1 *f*

Vln. 2 *f*

Vla. *f*

Vc. *f*

Cb. *f*

Cue 5

V

Picc. *f*

Fl. *f*

Ob. 1 *f*

Ob. 2 *f*

Cl. 1 *f*

Cl. 2 *f* *To Bass Clarinet*

Bsn. 1 *f*

Bsn. 2 *f*

Hn. 1&2 *f*

Hn. 3&4 *f*

Tpt. 1&2 *f*

Tbn. 1&2 *f*

Tba. *f*

Timp. *f*

Perc. 1 *f*

Perc. 2 *f*

Perc. 3 *f*

Hp. *f*

Pno. *f*

E. Gtr. *Whammy Off*

V

Vln. 1 *f*

Vln. 2 *f*

Vla. *f*

Vc. *f*

Ch. *f*

411

Picc. *n*

Fl. *n*

Ob. 1 *n*

Ob. 2 *n*

Cl. 1 *n*

Cl. 2 *n*

Bsn. 1 *n*

Bsn. 2 *n* To Contrabassoon

Hn. 1&2 *n* *f* *n* *f*

Hn. 3&4 *n* *f* *n* *f*

Tpt. 1&2 *n* *f* *n* *f*

Tbn. 1&2 *n*

Tba. *n*

Timp. *n* *mp*

Perc. 1 *n*

Perc. 2 *n*

Perc. 3 *n* To Bass Drum

Hp. *n*

Pno. *n* *lc*

E. Gtr. *f*

411

Vln. 1 *n*

Vln. 2 *n*

Vla. *n*

Vc. *n*

Cb. *n*

intense!
allow drive channel of e-bow to vibrate slightly against string, creating extra noise

417 W

Picc.

Fl.

Ob. 1

Ob. 2

Cl. 1

Cl. 2

Bsn. 1

Bsn. 2

Hn. 1&2

Hn. 3&4

Tpt. 1&2

Tbn. 1&2

Tba.

Timp.

Perc. 1

Perc. 2

Perc. 3

Hp.

Pno.

E. Gtr.

417 W

Vln. 1

Vln. 2

Vla.

Vc.

Ch.

424

Picc. Fl. Ob. 1 Ob. 2 Cl. 1 Cl. 2 Bsn. 1 Bsn. 2

Hn. 1&2 Hn. 3&4 Tpt. 1&2 Tbn. 1&2 Tba.

Timp. Perc. 1 Perc. 2 Perc. 3 Hp. Pno.

E. Gtr.

424

Vln. 1 Vln. 2 Vla. Vc. Cb.

div. a 3 aggressive! off the string

f

touch different harmonics on string, allowing them to be activated by the e-bow (until m. 433)

**gradually move bow from normal position towards sul pont., becoming very noisy and scratchy, and then back again.*

**norm.*

**norm.*

**norm.*

62

432

Picc. Fl. Ob. 1 Ob. 2 Cl. 1 B. Cl. Bsn. 1 Cbun. Hn. 1&2 Hn. 3&4 Tpt. 1&2 Tbn. 1&2 Tba. Timp. Perc. 1 Perc. 2 Perc. 3 Hp. Pno. E. Gtr.

432

Vln. 1 Vln. 2 Vla. Vc. Cb.

The musical score for measures 432-435 is presented in a standard orchestral format. The woodwind section (Piccolo, Flute, Oboe 1 & 2, Clarinet 1, Bass Clarinet, Bassoon 1, Contrabassoon) and brass section (Horn 1 & 2, Horn 3 & 4, Trumpet 1 & 2, Trombone 1 & 2, Tuba, Timpani, Percussion 1, 2, and 3, Harp, Piano, and Electric Guitar) are shown in the upper staves. The string section (Violin 1, Violin 2, Viola, Violoncello, and Contrabass) is shown in the lower staves. The score includes various musical notations such as notes, rests, dynamics (e.g., *f*, *sfz*, *n*), and articulations (e.g., accents, slurs). The measure numbers 432 and 433 are indicated at the beginning of their respective staves.

436

Picc.

Fl.

Ob. 1

Ob. 2

Cl. 1

B. Cl.

Bsn. 1

Cbss.

Hn. 1&2

Hn. 3&4

Tpt. 1&2

Tbn. 1&2

Tba.

Timp.

Perc. 1

Perc. 2

Perc. 3

Hp.

Pno.

E. Gtr.

436

Vln. 1

Vln. 2

Vla.

Vc.

Cb.

65

448 (tr) X

Picc. *fff*

Fl. *fff*

Ob. 1 *fff*

Ob. 2 *fff*

Cl. 1 *fff*

B. Cl. *fff*

Bsn. 1 *fff*

Cbsn. *fff*

Hn. 1&2 *fff*

Hn. 3&4 *fff*

Tpt. 1&2 *fff*

Tbn. 1&2 *fff*

Tba. *fff*

Timp. *fff*

Perc. 1 *fff* *sfz* *n*

Perc. 2 *fff* *sfz* *n*

Perc. 3 *fff* *sfz* *n*

Bass Drum *fff* *sfz* *n*

Hp. *fff* *sfz* *n*

Pno. *fff* *sfz* *n*

E. Gtr. *fff* *sfz* *n*

stop activating harmonics (keep open)

448 X

Vln. 1 *fff* *sfz* *n*

Vln. 2 *fff* *sfz* *n*

Vla. *fff* *sfz* *n*

Vc. *fff* *sfz* *n*

Cb. *fff* *sfz* *n*

unis. *n*

459

Picc. *ff* *fff*

Fl. *ff* *fff*

Ob. 1 *ff* *fff*

Ob. 2 *ff* *fff*

Cl. 1 *ff* *fff*

B. Cl. *ff* *fff*

Bsn. 1 *ff* *fff*

Cbn. *ff* *fff*

Hn. 1&2 *ff* *fff*

Hn. 3&4 *ff* *fff*

Tpt. 1&2 *ff* *fff*

Tbn. 1&2 *ff* *fff*

Tba. *ff* *fff*

Timp. *ff* *fff*

Perc. 1 *ff* *fff*

Perc. 2 *ff* *fff*

Perc. 3 *ff* *fff*

Hp. *ff* *fff*

Pno. *ff* *fff*

E. Gtr. *ff* *fff*

459

Vln. 1 *norm. unis.* *ff* *fff* *sul pont.*

Vln. 2 *norm. unis.* *ff* *fff* *sul pont.*

Vla. *norm. unis.* *ff* *fff* *sul pont.*

Vc. *norm.* *ff* *fff* *sul pont.*

Cb. *norm.* *ff* *fff* *sul pont.*

bisbigliando

straight mute

L.v.

L.v. (keep holding pedal)

Max/MSP Guitar Processing Diagrams

