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# Role-Taking in Free Improvisation and Collaborative Composition

## *Volume II. Improvisation Transcriptions.*

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PhD Thesis

City University  
Department of Music

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## Key to transcriptions.

↓ = note of unclear pitch.

|||| = (no noteheads) - variable or indeterminable number of notes in gesture.

In *Improvisation 1* and *Improvisation 3*, vertical dashed lines indicate implied barring.

In *Improvisation 2*, vertical dotted lines indicate synchrony between events, and diagonal lines indicate non-synchronous relationships between events.

All transcriptions are written at actual pitch.



# Improvisation 1: Player-function roles.

Handwritten musical score for the first system (measures 1-6). Roles are indicated by blue annotations:

- Flute:** *punctuation* → (measures 1-2)
- Oboe:** *solo* (measure 3), *p* (measure 4), *cresc* (measure 5)
- Saxophone (Alto):** *p* (measure 4), *punctuation* → (measure 5)
- Vibra:** *background* → (measures 1-6)
- Tuba:** *background* → (measures 1-6)

Other annotations include *mf* (measure 5), *solo* (measure 5), and *background* (measure 6).

Handwritten musical score for the second system (measures 7-12). Roles are indicated by blue annotations:

- Fl:** *punct.* (measure 7)
- Ob:** *solo breaks down...* (measures 8-10)
- Sax:** *background* (measures 8-10)
- Vib:** *background* (measures 8-10)
- Tuba:** *background* (measures 8-10)

Other annotations include *background* (measures 11-12), *solo* (measure 11), and *punct.* (measure 12).

Handwritten musical score for the third system (measures 13-18). Roles are indicated by blue annotations:

- Fl:** *countersolo* (measures 13-14)
- Ob:** *solo* (measures 13-14)
- Sax:** *background* (measures 15-16)
- Vib:** *background* (measures 15-16)
- Tuba:** *background* (measures 15-16)

Other annotations include *countersolo* (measures 17-18), *solo* (measure 17), and *background* (measures 18-19).



The image displays a handwritten musical score for a jazz ensemble, organized into two systems, each with five staves. The instruments listed on the left are Flute (Fl), Oboe (Ob), Saxophone (Sax), Vibraphone (vib.), and Tuba. The score is written in a staff with a treble clef and a key signature of one sharp (F#). The notation includes various musical symbols such as notes, rests, and dynamic markings (e.g., *f*, *p*, *f*). Handwritten labels in blue ink are interspersed throughout the score, indicating specific improvisation roles: 'punctuation' (appearing multiple times), 'heckle' (appearing multiple times), 'solo' (appearing multiple times), 'background' (appearing multiple times), 'countersolo' (appearing once), and 'multiphonics trill' (appearing once). The score is a complex piece of music, likely for a jazz ensemble, and the handwritten nature suggests it is a working draft or a score for a specific performance.

Fig. 3.1. Improvisation I: Player-function roles.



# Improvisation 1: Thematic Groups

Flute

Oboe

Saxophone\* (A1to)

vibra

Tuba

Handwritten musical notation for the first system, featuring various notes, rests, and dynamic markings like *p*, *mf*, and *resc*. Chords and notes are circled in blue, orange, and red. Labels like  $b_1$ ,  $b_2$ ,  $b_3$ ,  $b_4$ ,  $c_1$ ,  $c_2$ ,  $c_3$ ,  $c_4$ ,  $c_5$ ,  $A_1$ ,  $A_2$ , and  $A_3$  are present.

Fl

ob

Sax

Vib

Tuba

Handwritten musical notation for the second system. It includes notes, rests, and dynamic markings. Chords and notes are circled in blue, orange, and red. Labels like  $D_1$ ,  $D_2$ ,  $D_3$ ,  $D_4$ ,  $D_5$ ,  $F_1/H_3$ ,  $F_2/H_4$ ,  $A_1$ ,  $A_2$ ,  $A_3$ ,  $A_4$ ,  $A_5$ ,  $A_6$ , and  $A_7$  are present.

Fl

ob

Sax

vib

Tuba

Handwritten musical notation for the third system. It includes notes, rests, and dynamic markings. Chords and notes are circled in blue, orange, and red. Labels like  $J_1$ ,  $J_2$ ,  $J_3$ ,  $J_4$ ,  $C_1$ ,  $C_2$ ,  $C_3$ ,  $C_4$ ,  $C_5$ ,  $C_6$ ,  $C_7$ ,  $C_8$ ,  $A_7/B_6$ ,  $A_8$ , and  $A_9$  are present.



Handwritten musical score for improvisation analysis, featuring two systems of staves for Flute (Fl), Oboe (Ob), Saxophone (Sax), Vibraphone (vib.), and Tuba. The score includes various musical notations, accidentals, and handwritten annotations such as 'K4', 'C10', 'E1', 'K', 'F4', 'H4', 'A11/5', 'C13', 'D3', 'D2', 'K5', 'K4', 'K2', 'K3', 'F5', 'I2', 'I3', 'J6', 'A7/B11', 'p', 'multiphonics trill', and 'p b'. The notation is heavily annotated with circles and lines in various colors (blue, orange, red, yellow, green, purple) to highlight specific thematic groups.

Fig. 3.2. Improvisation 1: Thematic groups analysis.



# Improvisation 1: Thematic sets.

Flute

Oboe

Saxophone\* (Alto)

Vibra

Tuba

Fl

Ob

Sax

Vib

Tuba

Fl

Ob

Sax

Vib

Tuba



Fl

Ob

Sax

vib.

Tuba

Fl

Ob

Sax

vib.

Tuba

Key:

set a' set a'' set a''' set b' set b'' set b'''

Fig. 3.5. Improvisation 1: Thematic sets.



# Improvisation 2: Player-function roles

Handwritten musical score for Improvisation 2, featuring five staves: Ob, Sax, Pno, Vibe, and Tuba. The score is divided into three sections by brackets.

- Section 1:**
  - Ob:** Labeled "counter solo" and "heckle (to contra solo)".
  - Sax:** Labeled "Solo" and "Contra solo".
  - Pno:** Labeled "background".
  - Vibe:** Labeled "countersolo".
  - Tuba:** Labeled "background".
- Section 2:**
  - Ob:** Labeled "Solo".
  - Sax:** Labeled "Solo".
  - Pno:** Labeled "background".
  - Vibe:** Labeled "countersolo".
  - Tuba:** Labeled "background".
- Section 3:**
  - Ob:** Labeled "Solo".
  - Sax:** Labeled "Solo".
  - Pno:** Labeled "background".
  - Vibe:** Labeled "countersolo".
  - Tuba:** Labeled "background".

Handwritten musical score for Improvisation 2, featuring five staves: Ob, Sax, Pno, Vibe, and Tuba. The score is divided into three sections by brackets.

- Section 1:**
  - Ob:** Labeled "heckle -> contra background".
  - Sax:** Labeled "heckle -> countersolo".
  - Pno:** Labeled "background".
  - Vibe:** Labeled "countersolo".
  - Tuba:** Labeled "background".
- Section 2:**
  - Ob:** Labeled "heckle -> contra background".
  - Sax:** Labeled "heckle -> countersolo".
  - Pno:** Labeled "background".
  - Vibe:** Labeled "countersolo".
  - Tuba:** Labeled "background".
- Section 3:**
  - Ob:** Labeled "heckle -> contra background".
  - Sax:** Labeled "heckle -> countersolo".
  - Pno:** Labeled "background".
  - Vibe:** Labeled "countersolo".
  - Tuba:** Labeled "background".



4

Ob. ? heckle

Sax. heckle 3 → solo

Pno. p. light background

Vib. (countersolo)

Tuba solo background

5 background

6

7

8

9

10

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100

Fig 3.11



[illegible]

Fig. 3.11.1. *Improvisation 2: Player-function roles.*



# Improvisation 2: Thematic groups.

Handwritten musical score for Improvisation 2, Thematic groups. The score is for five instruments: Ob, Sax, Pno, Vibe, and Tuba. It features several thematic groups circled in red, yellow, and blue. The notation includes various musical symbols such as notes, rests, and accidentals. The score is divided into two systems, with the first system ending at a double bar line.

Handwritten musical score for Improvisation 2, Thematic groups. The score is for five instruments: Ob, Sax, Pno, Vibe, and Tuba. It features several thematic groups circled in red, yellow, and blue. The notation includes various musical symbols such as notes, rests, and accidentals. The score is divided into two systems, with the second system starting at a double bar line. The notation is more complex, including many accidentals and dynamic markings.



Handwritten musical score for "The Sound of Silence" by Simon & Garfunkel. The score is written on five staves: Ob., Sax., Pno., Vibe., and Tuba. It includes various musical notations such as notes, rests, and dynamic markings. The score is annotated with handwritten notes and colored markings (green, orange, blue, pink, brown) highlighting specific sections. The score is divided into four measures, numbered 4 and 5. The key signature is one sharp (F#). The time signature is 4/4. The score includes dynamic markings such as "p" (piano), "f" (forte), and "p, light" (piano, light). The score also includes performance instructions such as "wider + slower" and "f" (forte). The score is written in a handwritten style with various musical notations and symbols.

Handwritten musical score for five instruments: Ob, Sax, Pno, Vib, and Tuba. The score is divided into two systems by a dashed line. The first system includes measures 1-4, and the second system includes measures 5-8. The instruments are arranged vertically. The notation includes various musical symbols such as notes, rests, and dynamic markings. The score is annotated with handwritten notes and markings, including "F", "C13/K3", "B", "C14", "C15", "K1", "K2", "K4", "K6", "chrom.", "p con ped.", and "l.v.". The score is written on five staves, each with a clef and a key signature of one sharp (F#).



Handwritten musical score for improvisation 2, featuring six systems of staves for various instruments. The score includes notes, rests, and dynamic markings, with thematic groups highlighted by colored circles and boxes. The systems are numbered 9 through 16. The instruments are labeled on the left: Ob, Sax, Pno, Vibe, Tuba, Ob, Sax, Pno, Vibe, Tuba. The score includes various musical notations such as notes, rests, and dynamic markings like 'p', 'f', 'mf', 'ff', 'rit', 'acc', 'br', 'sim', 'ch. al fin', 'N', 'N1', 'C17', 'C18', 'C19', 'C20', 'E8', 'E7', 'F', 'F4', 'F5', 'F6', 'F7', 'F8', 'F9', 'F10', 'F11', 'F12', 'F13', 'F14', 'F15', 'F16', 'F17', 'F18', 'F19', 'F20', 'F21', 'F22', 'F23', 'F24', 'F25', 'F26', 'F27', 'F28', 'F29', 'F30', 'F31', 'F32', 'F33', 'F34', 'F35', 'F36', 'F37', 'F38', 'F39', 'F40', 'F41', 'F42', 'F43', 'F44', 'F45', 'F46', 'F47', 'F48', 'F49', 'F50', 'F51', 'F52', 'F53', 'F54', 'F55', 'F56', 'F57', 'F58', 'F59', 'F60', 'F61', 'F62', 'F63', 'F64', 'F65', 'F66', 'F67', 'F68', 'F69', 'F70', 'F71', 'F72', 'F73', 'F74', 'F75', 'F76', 'F77', 'F78', 'F79', 'F80', 'F81', 'F82', 'F83', 'F84', 'F85', 'F86', 'F87', 'F88', 'F89', 'F90', 'F91', 'F92', 'F93', 'F94', 'F95', 'F96', 'F97', 'F98', 'F99', 'F100'. The score also includes various musical notations such as notes, rests, and dynamic markings like 'p', 'f', 'mf', 'ff', 'rit', 'acc', 'br', 'sim', 'ch. al fin', 'N', 'N1', 'C17', 'C18', 'C19', 'C20', 'E8', 'E7', 'F', 'F4', 'F5', 'F6', 'F7', 'F8', 'F9', 'F10', 'F11', 'F12', 'F13', 'F14', 'F15', 'F16', 'F17', 'F18', 'F19', 'F20', 'F21', 'F22', 'F23', 'F24', 'F25', 'F26', 'F27', 'F28', 'F29', 'F30', 'F31', 'F32', 'F33', 'F34', 'F35', 'F36', 'F37', 'F38', 'F39', 'F40', 'F41', 'F42', 'F43', 'F44', 'F45', 'F46', 'F47', 'F48', 'F49', 'F50', 'F51', 'F52', 'F53', 'F54', 'F55', 'F56', 'F57', 'F58', 'F59', 'F60', 'F61', 'F62', 'F63', 'F64', 'F65', 'F66', 'F67', 'F68', 'F69', 'F70', 'F71', 'F72', 'F73', 'F74', 'F75', 'F76', 'F77', 'F78', 'F79', 'F80', 'F81', 'F82', 'F83', 'F84', 'F85', 'F86', 'F87', 'F88', 'F89', 'F90', 'F91', 'F92', 'F93', 'F94', 'F95', 'F96', 'F97', 'F98', 'F99', 'F100'.

Fig. 3.13. Improvisation 2: Thematic groups.



# Improvisation 2: Thematic sets.

Handwritten musical score for Improvisation 2: Thematic sets. The score is written for five instruments: Eb, Sax, Pno, Vibe, and Tuba. The notation includes various musical symbols such as notes, rests, and dynamic markings. Key features include:

- Staff 1 (Eb):** Contains a sequence of notes with a circled section labeled 'A' and another circled section labeled 'A1'.
- Staff 2 (Sax):** Contains a sequence of notes with a circled section labeled 'A' and another circled section labeled 'A1'.
- Staff 3 (Pno):** Contains a sequence of notes with a circled section labeled 'A' and another circled section labeled 'A1'.
- Staff 4 (Vibe):** Contains a sequence of notes with a circled section labeled 'A' and another circled section labeled 'A1'.
- Staff 5 (Tuba):** Contains a sequence of notes with a circled section labeled 'A' and another circled section labeled 'A1'.

Handwritten musical score for Improvisation 2: Thematic sets. The score is written for five instruments: Eb, Sax, Pno, Vibe, and Tuba. The notation includes various musical symbols such as notes, rests, and dynamic markings. Key features include:

- Staff 1 (Eb):** Contains a sequence of notes with a circled section labeled 'A' and another circled section labeled 'A1'.
- Staff 2 (Sax):** Contains a sequence of notes with a circled section labeled 'A' and another circled section labeled 'A1'.
- Staff 3 (Pno):** Contains a sequence of notes with a circled section labeled 'A' and another circled section labeled 'A1'.
- Staff 4 (Vibe):** Contains a sequence of notes with a circled section labeled 'A' and another circled section labeled 'A1'.
- Staff 5 (Tuba):** Contains a sequence of notes with a circled section labeled 'A' and another circled section labeled 'A1'.



Handwritten musical score for measures 4 and 5. The score includes parts for Ob., Sax, Pno, Vib, and Tuba.

**Measure 4:**

- Ob.:** Treble clef, key signature of two sharps (F# and C#). Notes: E3 (circled in green), F#3 (circled in green), G#3 (circled in green), A3 (circled in green), B3 (circled in green). A bracket labeled "p, light" is under the first four notes.
- Sax:** Treble clef, key signature of two sharps. Notes: J (circled in red), K (circled in red), P (circled in red).
- Pno:** Treble clef, key signature of two sharps. Notes: B (circled in red), B (circled in red).
- Vib:** Treble clef, key signature of two sharps. Notes: C4 (circled in red), F (circled in red).
- Tuba:** Treble clef, key signature of two sharps. Notes: C11 (circled in red), f (circled in red).

**Measure 5:**

- Ob.:** Treble clef, key signature of two sharps. Notes: F (circled in green), F# (circled in green), G# (circled in green), A (circled in green), B (circled in green).
- Sax:** Treble clef, key signature of two sharps. Notes: K (circled in red), P (circled in red).
- Pno:** Treble clef, key signature of two sharps. Notes: B (circled in red), B (circled in red).
- Vib:** Treble clef, key signature of two sharps. Notes: C4 (circled in red), F (circled in red).
- Tuba:** Treble clef, key signature of two sharps. Notes: C11 (circled in red), f (circled in red).

Handwritten musical score for measures 6, 7, and 8. The score includes parts for Ob., Sax, Pno, Vib, and Tuba.

**Measure 6:**

- Ob.:** Treble clef, key signature of two sharps. Notes: F (circled in green), F# (circled in green), G# (circled in green), A (circled in green), B (circled in green).
- Sax:** Treble clef, key signature of two sharps. Notes: K1 (circled in red), K2 (circled in red), K3 (circled in red).
- Pno:** Treble clef, key signature of two sharps. Notes: B (circled in red), B (circled in red).
- Vib:** Treble clef, key signature of two sharps. Notes: C12 (circled in red), F (circled in red).
- Tuba:** Treble clef, key signature of two sharps. Notes: C13 (circled in red), f (circled in red).

**Measure 7:**

- Ob.:** Treble clef, key signature of two sharps. Notes: F (circled in green), F# (circled in green), G# (circled in green), A (circled in green), B (circled in green).
- Sax:** Treble clef, key signature of two sharps. Notes: K1 (circled in red), K2 (circled in red), K3 (circled in red).
- Pno:** Treble clef, key signature of two sharps. Notes: B (circled in red), B (circled in red).
- Vib:** Treble clef, key signature of two sharps. Notes: C12 (circled in red), F (circled in red).
- Tuba:** Treble clef, key signature of two sharps. Notes: C13 (circled in red), f (circled in red).

**Measure 8:**

- Ob.:** Treble clef, key signature of two sharps. Notes: F (circled in green), F# (circled in green), G# (circled in green), A (circled in green), B (circled in green).
- Sax:** Treble clef, key signature of two sharps. Notes: K1 (circled in red), K2 (circled in red), K3 (circled in red).
- Pno:** Treble clef, key signature of two sharps. Notes: B (circled in red), B (circled in red).
- Vib:** Treble clef, key signature of two sharps. Notes: C12 (circled in red), F (circled in red).
- Tuba:** Treble clef, key signature of two sharps. Notes: C13 (circled in red), f (circled in red).



Handwritten musical score for a symphony orchestra, featuring staves for Oboe (Ob), Saxophone (Sax), Piano (Pno), Vibraphone (vibe), and Tuba. The score is divided into measures 10 through 17, with various musical notations, dynamics, and performance instructions.

**Measure 10:** Oboe (Ob) plays a melodic line starting on C<sub>14</sub>/E<sub>6</sub>. Saxophone (Sax) plays a melodic line starting on J<sub>1</sub>. Piano (Pno) plays a chordal accompaniment. Vibraphone (vibe) plays a melodic line starting on C<sub>16</sub>. Tuba plays a melodic line starting on C<sub>15</sub>. Dynamics include *p* and *f*. Performance instructions include "Free, expressively" and "rit".

**Measure 11:** Oboe (Ob) plays a melodic line starting on F<sub>3</sub>. Saxophone (Sax) plays a melodic line starting on F<sub>3</sub>. Piano (Pno) plays a chordal accompaniment. Vibraphone (vibe) plays a melodic line starting on L. Tuba plays a melodic line starting on F<sub>3</sub>. Dynamics include *p* and *f*. Performance instructions include "Free, expressively" and "rit".

**Measure 12:** Oboe (Ob) plays a melodic line starting on F<sub>3</sub>. Saxophone (Sax) plays a melodic line starting on F<sub>3</sub>. Piano (Pno) plays a chordal accompaniment. Vibraphone (vibe) plays a melodic line starting on L<sub>2</sub>. Tuba plays a melodic line starting on F<sub>3</sub>. Dynamics include *p* and *f*. Performance instructions include "Free, expressively" and "rit".

**Measure 13:** Oboe (Ob) plays a melodic line starting on F<sub>3</sub>. Saxophone (Sax) plays a melodic line starting on F<sub>3</sub>. Piano (Pno) plays a chordal accompaniment. Vibraphone (vibe) plays a melodic line starting on L<sub>2</sub>. Tuba plays a melodic line starting on F<sub>3</sub>. Dynamics include *p* and *f*. Performance instructions include "Free, expressively" and "rit".

**Measure 14:** Oboe (Ob) plays a melodic line starting on F<sub>3</sub>. Saxophone (Sax) plays a melodic line starting on F<sub>3</sub>. Piano (Pno) plays a chordal accompaniment. Vibraphone (vibe) plays a melodic line starting on L<sub>2</sub>. Tuba plays a melodic line starting on F<sub>3</sub>. Dynamics include *p* and *f*. Performance instructions include "Free, expressively" and "rit".

**Measure 15:** Oboe (Ob) plays a melodic line starting on F<sub>3</sub>. Saxophone (Sax) plays a melodic line starting on F<sub>3</sub>. Piano (Pno) plays a chordal accompaniment. Vibraphone (vibe) plays a melodic line starting on L<sub>2</sub>. Tuba plays a melodic line starting on F<sub>3</sub>. Dynamics include *p* and *f*. Performance instructions include "Free, expressively" and "rit".

**Measure 16:** Oboe (Ob) plays a melodic line starting on F<sub>3</sub>. Saxophone (Sax) plays a melodic line starting on F<sub>3</sub>. Piano (Pno) plays a chordal accompaniment. Vibraphone (vibe) plays a melodic line starting on L<sub>2</sub>. Tuba plays a melodic line starting on F<sub>3</sub>. Dynamics include *p* and *f*. Performance instructions include "Free, expressively" and "rit".

**Measure 17:** Oboe (Ob) plays a melodic line starting on F<sub>3</sub>. Saxophone (Sax) plays a melodic line starting on F<sub>3</sub>. Piano (Pno) plays a chordal accompaniment. Vibraphone (vibe) plays a melodic line starting on L<sub>2</sub>. Tuba plays a melodic line starting on F<sub>3</sub>. Dynamics include *p* and *f*. Performance instructions include "Free, expressively" and "rit".

set  $a'$    set  $a''$    set  $a'''$    set  $b'$    set  $c'$    set  $c''$

Fig. 3.15. *Improvisation 2: Thematic sets.*



# Improvisation 3: Player-function roles

Handwritten musical score for Improvisation 3, Player-function roles. The score is written for a 12-piece band (12 bongos) and includes parts for Flute (Fl), Oboe (Ob), Alto Sax, Tenor Sax, Synth, Piano (Pno), and Drums (Drums). The score is divided into two systems, each with a key signature of one sharp (F#) and a 4/4 time signature.

**System 1:**

- Fl:** Solo (first measure), then a melodic line with a triplet in the second measure.
- Ob:** Harmonics (first measure), then a melodic line.
- Alto Sax:** Solo (first measure), then a melodic line.
- Tenor Sax:** Solo (first measure), then a melodic line.
- Synth:** Pulsing white noise - varying pitch. (first measure), then a melodic line.
- Pno:** Solo (first measure), then a melodic line.
- Drums:** 12 bongos (first measure), then a melodic line.

**System 2:**

- Fl:** Solo (first measure), then a melodic line.
- Ob:** Solo (first measure), then a melodic line.
- Alto Sax:** Solo (first measure), then a melodic line.
- Tenor Sax:** Solo (first measure), then a melodic line.
- Synth:** Pulsing white noise - varying pitch. (first measure), then a melodic line.
- Pno:** Solo (first measure), then a melodic line.
- Drums:** 12 bongos (first measure), then a melodic line.

Handwritten musical score for Improvisation 3, Player-function roles. The score is written for a 12-piece band (12 bongos) and includes parts for Flute (Fl), Oboe (Ob), Alto Sax, Tenor Sax, Synth, Piano (Pno), and Drums (Drums). The score is divided into two systems, each with a key signature of one sharp (F#) and a 4/4 time signature.

**System 1:**

- Fl:** Solo (first measure), then a melodic line.
- Ob:** Solo (first measure), then a melodic line.
- Alto Sax:** Solo (first measure), then a melodic line.
- Tenor Sax:** Solo (first measure), then a melodic line.
- Synth:** Pulsing white noise - varying pitch. (first measure), then a melodic line.
- Pno:** Solo (first measure), then a melodic line.
- Drums:** 12 bongos (first measure), then a melodic line.

**System 2:**

- Fl:** Solo (first measure), then a melodic line.
- Ob:** Solo (first measure), then a melodic line.
- Alto Sax:** Solo (first measure), then a melodic line.
- Tenor Sax:** Solo (first measure), then a melodic line.
- Synth:** Pulsing white noise - varying pitch. (first measure), then a melodic line.
- Pno:** Solo (first measure), then a melodic line.
- Drums:** 12 bongos (first measure), then a melodic line.



14

punctuation → background

contrasolo → background

fl

ob (lose timing) →

Alto Sax

Tenor Sax

Synth

Pno

Drs

solos

c/solo

background

countersolo

c/solo

background

countersolo

21

25

fl

ob

alto Sax

tenor Sax

Synth

pno

drs

background

solos

solos/punctuation

solos/contrasolo

solos

white noise

punct.

counterbackground







Improvisation 3: Thematic sets.

Handwritten musical score for Improvisation 3, Thematic sets. The score is written for Flute (Fl), Oboe (Ob), Alto Saxophone (Alto Sax), Tenor Saxophone (Tenor Sax), Synthesizer (Synth), Piano (Pno), and Drums (Drums). The piano part is marked "(2 bongos)".

The score is divided into two systems. The first system includes a section for the Synthesizer labeled "pulsing white noise - varying pitch." with a "constant pulse" annotation. The piano part features a sequence of notes labeled A1, A2, A3, A4, G1, and G2, which are circled in blue. The flute part has a circled section labeled "harmonics".

Handwritten musical score for Improvisation 3, Thematic sets. The score is written for Flute (Fl), Oboe (Ob), Alto Saxophone (Alto Sax), Tenor Saxophone (Tenor Sax), Synthesizer (Synth), Piano (Pno), and Drums (Drums). The piano part is marked "(2 bongos)".

The score is divided into two systems. The first system includes a section for the Synthesizer labeled "pulsing white noise - varying pitch." with a "constant pulse" annotation. The piano part features a sequence of notes labeled A1, A2, A3, A4, G1, and G2, which are circled in blue. The flute part has a circled section labeled "harmonics".



Handwritten musical score for measures 14-20. The score is written for the following instruments: Flute (fl), Oboe (ob), Alto Saxophone (Alto Sax), Tenor Saxophone (Tenor Sax), Synthesizer (synth), and Piano (pno). The key signature is one flat (Bb).

Measure 14: Flute (fl) has a circled note labeled  $S_1$ . Oboe (ob) has a circled note labeled  $Q_1$  with the annotation "(loose timing)". Alto Saxophone (Alto Sax) has a circled note labeled  $T_1$ . Tenor Saxophone (Tenor Sax) has a circled note labeled  $Q_1/R$ . Synthesizer (synth) has a circled note labeled  $Q_3$ . Piano (pno) has a circled note labeled  $T_2$ .

Measure 15: Flute (fl) has a circled note labeled  $Q_2$ . Oboe (ob) has a circled note labeled  $Q_3$ . Alto Saxophone (Alto Sax) has a circled note labeled  $T_3$ . Tenor Saxophone (Tenor Sax) has a circled note labeled  $Q_4$ . Synthesizer (synth) has a circled note labeled  $T_4$ . Piano (pno) has a circled note labeled  $Q_5$ .

Measure 16: Flute (fl) has a circled note labeled  $Q_6$ . Oboe (ob) has a circled note labeled  $Q_7$ . Alto Saxophone (Alto Sax) has a circled note labeled  $T_5$ . Tenor Saxophone (Tenor Sax) has a circled note labeled  $Q_8$ . Synthesizer (synth) has a circled note labeled  $T_6$ . Piano (pno) has a circled note labeled  $Q_9$ .

Measure 17: Flute (fl) has a circled note labeled  $Q_{10}$ . Oboe (ob) has a circled note labeled  $Q_{11}$ . Alto Saxophone (Alto Sax) has a circled note labeled  $T_7$ . Tenor Saxophone (Tenor Sax) has a circled note labeled  $Q_{12}$ . Synthesizer (synth) has a circled note labeled  $T_8$ . Piano (pno) has a circled note labeled  $Q_{13}$ .

Measure 18: Flute (fl) has a circled note labeled  $Q_{14}$ . Oboe (ob) has a circled note labeled  $Q_{15}$ . Alto Saxophone (Alto Sax) has a circled note labeled  $T_9$ . Tenor Saxophone (Tenor Sax) has a circled note labeled  $Q_{16}$ . Synthesizer (synth) has a circled note labeled  $T_{10}$ . Piano (pno) has a circled note labeled  $Q_{17}$ .

Measure 19: Flute (fl) has a circled note labeled  $Q_{18}$ . Oboe (ob) has a circled note labeled  $Q_{19}$ . Alto Saxophone (Alto Sax) has a circled note labeled  $T_{11}$ . Tenor Saxophone (Tenor Sax) has a circled note labeled  $Q_{20}$ . Synthesizer (synth) has a circled note labeled  $T_{12}$ . Piano (pno) has a circled note labeled  $Q_{21}$ .

Measure 20: Flute (fl) has a circled note labeled  $Q_{22}$ . Oboe (ob) has a circled note labeled  $Q_{23}$ . Alto Saxophone (Alto Sax) has a circled note labeled  $T_{13}$ . Tenor Saxophone (Tenor Sax) has a circled note labeled  $Q_{24}$ . Synthesizer (synth) has a circled note labeled  $T_{14}$ . Piano (pno) has a circled note labeled  $Q_{25}$ .

Handwritten musical score for measures 21-27. The score is written for the following instruments: Flute (fl), Oboe (ob), Alto Saxophone (alto sax), Tenor Saxophone (tenor sax), Synthesizer (synth), Piano (pno), and Drums (drs). The key signature is one flat (Bb).

Measure 21: Flute (fl) has a circled note labeled  $M_2$ . Oboe (ob) has a circled note labeled  $T_5$ . Alto Saxophone (alto sax) has a circled note labeled  $P_2$ . Tenor Saxophone (tenor sax) has a circled note labeled  $V_4$ . Synthesizer (synth) has a circled note labeled  $E_3$ . Piano (pno) has a circled note labeled  $Q_5$ . Drums (drs) has a circled note labeled  $W_2$ .

Measure 22: Flute (fl) has a circled note labeled  $Q_5$ . Oboe (ob) has a circled note labeled  $P_2$ . Alto Saxophone (alto sax) has a circled note labeled  $T_5$ . Tenor Saxophone (tenor sax) has a circled note labeled  $E_4$ . Synthesizer (synth) has a circled note labeled  $F$ . Piano (pno) has a circled note labeled  $A$ . Drums (drs) has a circled note labeled  $W_2$ .

Measure 23: Flute (fl) has a circled note labeled  $Q_5$ . Oboe (ob) has a circled note labeled  $P_2$ . Alto Saxophone (alto sax) has a circled note labeled  $T_5$ . Tenor Saxophone (tenor sax) has a circled note labeled  $E_4$ . Synthesizer (synth) has a circled note labeled  $F$ . Piano (pno) has a circled note labeled  $A$ . Drums (drs) has a circled note labeled  $W_2$ .

Measure 24: Flute (fl) has a circled note labeled  $Q_5$ . Oboe (ob) has a circled note labeled  $P_2$ . Alto Saxophone (alto sax) has a circled note labeled  $T_5$ . Tenor Saxophone (tenor sax) has a circled note labeled  $E_4$ . Synthesizer (synth) has a circled note labeled  $F$ . Piano (pno) has a circled note labeled  $A$ . Drums (drs) has a circled note labeled  $W_2$ .

Measure 25: Flute (fl) has a circled note labeled  $Q_5$ . Oboe (ob) has a circled note labeled  $P_2$ . Alto Saxophone (alto sax) has a circled note labeled  $T_5$ . Tenor Saxophone (tenor sax) has a circled note labeled  $E_4$ . Synthesizer (synth) has a circled note labeled  $F$ . Piano (pno) has a circled note labeled  $A$ . Drums (drs) has a circled note labeled  $W_2$ .

Measure 26: Flute (fl) has a circled note labeled  $Q_5$ . Oboe (ob) has a circled note labeled  $P_2$ . Alto Saxophone (alto sax) has a circled note labeled  $T_5$ . Tenor Saxophone (tenor sax) has a circled note labeled  $E_4$ . Synthesizer (synth) has a circled note labeled  $F$ . Piano (pno) has a circled note labeled  $A$ . Drums (drs) has a circled note labeled  $W_2$ .

Measure 27: Flute (fl) has a circled note labeled  $Q_5$ . Oboe (ob) has a circled note labeled  $P_2$ . Alto Saxophone (alto sax) has a circled note labeled  $T_5$ . Tenor Saxophone (tenor sax) has a circled note labeled  $E_4$ . Synthesizer (synth) has a circled note labeled  $F$ . Piano (pno) has a circled note labeled  $A$ . Drums (drs) has a circled note labeled  $W_2$ .



