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Spring 2019

## Generations 3.1

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GENERATIONS 3.1

by

Carlos Cotallo Solares

A thesis submitted in partial fulfillment  
of the requirements for the Doctor of Philosophy  
degree in Music in the  
Graduate College of  
The University of Iowa

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Thesis Supervisor: Professor David Gompper

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## ABSTRACT

*generations 3.1* is a musical composition for improvisers, chamber orchestra, two-channel audio playback, and video. It is part of the *generations* series, a collection of works in which newer pieces are made by combining and/or reinterpreting older ones. *generations 3.1* uses material from *generations 0* (stereo audio), *generations 1.1* (audiovisual fixed media), *generations 1.2* (chamber orchestra and audio playback), and *generations 2.1* (video and improvisers). Formally, *generations 3.1* expands the duration of its predecessors by deconstructing their shared timeline, reordering and elongating sections, as well as introducing new interludes. The experimental video of *generations 3.1* was created by Timothy David Orme, while the text instructions for the improvisers were greatly influenced by my work with Wombat, an improvisation trio consisting of Justin K. Comer on saxophone, Will Yager on double bass, and myself on electric guitar and electronics.

The four layers of the piece (improvisers, chamber orchestra, audio playback, and video) have distinct roles. The audio and the orchestra almost always sound together and complement each other, and they either support or create sections to contrast the improvisers. The improvisers act as soloists, playing alone or over the other musical layers, and respond to the video, observing its mood, energy, and timing. The video works as the main thread through the piece, providing a path interrupted by interludes. Its visual content is set to music by the other three layers. However, all these roles are somewhat flexible during the piece.

My main goal with the *generations* series was to explore the process of writing works derived from older ones, reusing my own music to produce new compositions. Moreover, by collaborating with other artists, the same material can be reinterpreted through different

disciplines and perspectives. The name “generations” connects the creative process that happens throughout the series to the idea of humans passing on both genetic and cultural material to their descendants. In *generations 3.1*, the name specifically references the different ways in which music was generated for the piece: editing electronic sounds, by means of traditional notation, and through improvisation.

## PUBLIC ABSTRACT

*generations 3.1* is a musical composition for improvisers, chamber orchestra, two-channel audio playback, and video. It is part of the *generations* series, a collection of works in which newer pieces are made by combining and/or reinterpreting older ones. The experimental video of *generations 3.1* was created by Timothy David Orme, while the text instructions for the improvisers were greatly influenced by my work with Wombat, an improvisation trio consisting of Justin K. Comer on saxophone, Will Yager on double bass, and myself on electric guitar and electronics. My main goal with the *generations* series was to explore the process of writing works derived from older ones, reusing my own music to produce new compositions. Moreover, by collaborating with other artists, the same material can be reinterpreted through different disciplines and perspectives. The name “generations” connects the creative process that happens throughout the series to the idea of humans passing on both genetic and cultural material to their descendants. In *generations 3.1*, the name specifically references the different ways in which music was generated for the piece: editing electronic sounds, by means of traditional notation, and through improvisation.

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## INSTRUMENTATION

Flute  
Oboe  
Clarinet in Bb  
Bassoon

Horn in F  
Trumpet in C  
Trombone  
Tuba

Percussion: suspended cymbal, hi-hat, snare drum

Improvisers (two or more)

Violin I  
Violin II  
Viola  
Violoncello  
Double Bass

Two-Channel Audio Playback

Video

Click-track

## PERFORMANCE NOTES

To make the synchronization between all layers possible, the conductor must use a click-track or a metronome. The click-track and the playback file (that includes the audio and video tracks) start together at the beginning of the piece. The improvisers must be able to look at the video while they play, either by facing the screen with their backs to the audience or by using video monitors.

The volume of the electronic audio should be adjusted so that it blends with the chamber orchestra. Depending on the instruments played by the improvisers, amplification might be necessary to ensure they can be heard during the louder parts of the piece. For the first realization of the piece, the improvisers played saxophone, electric guitar, and double bass.

Whenever the improvisers are playing and there is video on the screen, they should observe its mood, energy, and timing and respond to them.



10

Fl.

Ob.

B♭ Cl.

Bsn.

10

Hn.

C Tpt.

Tbn.

Tuba

Con sord.

10

S.Dr.

6

5

5

3

10

Improvisers

10

Vln. I

Vln. II

Vla.

Vc.

D.B.

10

Audio

Video

*p*

*pp*

*ppp*

*mf*

*ppp*

*pizz.*

*p*

*ppp*

*ppp*

*mf*

*ppp*

*ppp*

*ppp*



20

Fl.

Ob.

B♭ Cl.

Bsn.

20

Hn.

C Tpt.

Tbn. *Con sord.*

Tuba

20

S. Dr.

20

Improvisers

20

Vln. I

Vln. II

Vla.

Vc.

D.B.

20

Audio

Video

*mf* *ppp* *ppp* *ppp* *mf* *mf* *ppp*

*mf* *ppp* *ppp*

3 5

5

24

Fl.

Ob.

B♭ Cl.

Bsn.

Hn.

C Tpt.

Tbn.

Tuba

S.Dr.

Improvisers

Vln. I

Vln. II

Vla.

Vc.

D.B.

Audio

Video

*mf* *ppp* *ppp* *mf* *ppp*

5 5 3 5 3 6 5

Detailed description: This page of a musical score contains measures 24 through 27. The instrumentation includes woodwinds (Flute, Oboe, Bass Clarinet, Bassoon), brass (Horn, Trumpet, Trombone, Tuba), percussion (Snare Drum), strings (Violin I, Violin II, Viola, Violoncello, Double Bass), and an Improvisers section. The score is written in a common time signature with a key signature of one flat. The woodwinds and brass parts feature rhythmic patterns of eighth and sixteenth notes. The Snare Drum part consists of dense sixteenth-note patterns with various articulations. The string parts include sustained notes with dynamic markings: Violin I and II, Viola, and Double Bass start with *mf* and transition to *ppp* by measure 25. The Improvisers part features complex rhythmic patterns with fingerings (5, 3, 6, 5) and a 3-measure rest in measure 25. The bottom of the page is reserved for Audio and Video synchronization.

28

Fl. *mf* *pp* *mf* *pp* *mf* *pp*

Ob. multiphonic *mf* *pp* *mf* *pp*

B♭ Cl. multiphonic *mf* *pp* *mf* *pp* *mf* *pp*

Bsn. multiphonic *mf* *pp* *mf* *pp* *mf* *pp*

Hn. *mf* *pp* *mf* *pp* *mf* *pp*

C Tpt. *mf* *pp* *mf* *pp*

Tbn. *mf* *pp* *mf* *pp*

Tuba *mf* *pp* *mf* *pp* *mf* *pp*

S.Dr. *mp*

Improvvisers

Vln. I arco *mf* *pp* *mf* *pp* *mf* *pp*

Vln. II *mf* *ppp*

Vla. *ppp* *ppp*

Vc. arco *mf* *pp* *mf* *pp* *mf* *pp*

D.B. *mf* *ppp* *ppp*

Audio

Video



This musical score is for a symphony orchestra and a group of improvisers. It is divided into two main sections, B and C, which are indicated by boxed letters at the top of the page. The score includes parts for various instruments and a video component.

**Orchestra Parts:**

- Flute (Fl.):** Starts at measure 31 with a melodic line marked *mf*.
- Oboe (Ob.):** Remains silent throughout the section.
- Bass Clarinet (B> Cl.):** Starts at measure 31 with a sustained note marked *pp*.
- Bassoon (Bsn.):** Starts at measure 31 with a sustained note marked *pp*.
- Horn (Hn.):** Starts at measure 31 with a melodic line marked *mf*.
- Trumpet (C Tpt.):** Starts at measure 31 with a sustained note marked *pp*.
- Trombone (Tbn.):** Starts at measure 31 with a melodic line marked *pp* and *mf*.
- Tuba:** Starts at measure 31 with a sustained note marked *pp*.
- Snare Drum (S.Dr.):** Starts at measure 31 with a rhythmic pattern consisting of five groups of eighth notes, each group containing five notes.

**Improvisers:**

- Vin. I (Violin I):** Starts at measure 31 with a melodic line marked *mf* and *p*.
- Vin. II (Violin II):** Starts at measure 31 with a sustained note marked *ppp* and *mf*.
- Vla. (Viola):** Starts at measure 31 with a melodic line marked *mf* and *p*.
- Vc. (Violoncello):** Starts at measure 31 with a sustained note marked *pp*.
- D.B. (Double Bass):** Starts at measure 31 with a sustained note marked *mf*.

**Improvisation Instructions:**

Start with video.  
Exploring a small space. Focused, but always changing.  
Stop abruptly with video.

**Audio and Video:**

Audio: A horizontal line indicating the audio recording period.

Video: A horizontal line indicating the video recording period.

42

Fl. *p* *mf* *pp* *mf*

Ob. *p* *mf* *pp*

B♭ Cl. *p* *mf* *pp* *mf*

Bsn. *p* *mf* *pp* *mf*

Hn. *Con sord.* *p* *mf* *pp* *mf*

C Tpt. *Con sord.* *mf*

Tbn. *Con sord.* *p* *mf* *pp*

Tuba *Con sord.* *p* *mf* *pp* *mf*

S.Dr. *p* *mp*

Improvisers

Vln. I *pizz.* *p* *mf* *pp* *mf* *arco*

Vln. II *pppp* *mf* *pppp*

Vla. *pppp* *mf* *pppp*

Vc. *pizz.* *p* *mf* *pp* *arco*

D.B. *pppp* *mf* *pppp*

Audio

Video

46

Fl. *pp* *mf* *pp* *mf* *pp* *mf* *pp*

Ob. *mf* *pp* *mf* *pp* *mf*

B♭ Cl. *pp* *mf* *pp* *mf* *pp* *mf*

Bsn. *pp* *mf* *pp* *mf* *pp* *mf*

Hn. *pp* *mf* *pp* *mf* *pp* *mf*

C Tpt. *pp* *mf* *pp* *mf* *pp*

Tbn. *mf* *pp* *mf* *pp* *mf*

Tuba *pp* *mf* *pp* *mf* *pp*

S.Dr. *pp* *mf* *pp*

Improvisers

Vln. I *pp* *mf* *pp* *mf* *pp* *mf* *pp*

Vln. II *ppp* *mf*

Vla. *mf* *ppp*

Vc. *mf* *pp* *mf* *pp* *mf* *pp* *mf* *pp*

D.B. *ppp* *mf* *ppp*

Audio

Video

This page of a musical score, numbered 10, features a variety of instruments and sections. The woodwind section includes Flute (Fl.), Oboe (Ob.), B♭ Clarinet (B♭ Cl.), Bassoon (Bsn.), Horn (Hn.), and Trombone (Tbn.). The brass section consists of Trumpet (C Tpt.), Tuba, and Snare Drum (S.Dr.). The string section includes Violin I (Vln. I), Violin II (Vln. II), Viola (Vla.), Violoncello (Vc.), and Double Bass (D.B.). An 'Improvisers' section is also present, featuring rhythmic patterns with fingerings (5, 3, 6, 5, 6, 5, 3) and accents. The score is marked with dynamic levels such as *mf*, *pp*, *ppp*, and *pppp*. The page number '49' is visible at the beginning of several staves.

This page of a musical score, numbered 11, features a variety of instruments and sections. The woodwinds include Flute (Fl.), Oboe (Ob.), Bass Clarinet (B♭ Cl.), Bassoon (Bsn.), Horn (Hn.), Trumpet (C Tpt.), Trombone (Tbn.), and Tuba. The percussion section consists of Snare Drum (S.Dr.) and Improvisers. The strings include Violin I (Vln. I), Violin II (Vln. II), Viola (Vla.), Violoncello (Vc.), and Double Bass (D.B.). There are also designated staves for Audio and Video. The score is marked with dynamic levels such as *pp*, *mf*, *ppp*, and *p*. A rehearsal mark '52' is present at the beginning of several staves. The S.Dr. part features complex rhythmic patterns with fingerings like 5, 3, 5, 6, 5, 6, 5, 3, 3, 5, 3, 5.

D

Fl. *f*

Ob. *f*

B $\flat$  Cl. *f*

Bsn. *f*

55 Hn. *f*

C Tpt. *f*

Tbn. *f*

Tuba *f*

55 S.Dr. *f*

Improvise

55 Start with video.  
Continue with the material from the last improvisation. Slowly drift away, moving into a different direction.

55 Vln. I *f*

Vln. II *f*

Vla. *f*

Vc. *f*

D.B. *f*

55 Audio

Video

64

Fl.

Ob.

B $\flat$  Cl.

Bsn.

This block contains four musical staves for woodwind instruments: Flute (Fl.), Oboe (Ob.), B-flat Clarinet (B $\flat$  Cl.), and Bassoon (Bsn.). Each staff begins with a treble clef and a key signature of one flat. The staves are empty, showing only the horizontal lines and bar lines for measures 64 through 73.

64

Hn.

C Tpt.

Tbn.

Tuba

This block contains four musical staves for brass instruments: Horn (Hn.), C Trumpet (C Tpt.), Trombone (Tbn.), and Tuba. Each staff begins with a treble clef for the Horn and C Trumpet, and a bass clef for the Trombone and Tuba. The staves are empty, showing only the horizontal lines and bar lines for measures 64 through 73.

64

Continue after video stops.

Improvisers

64

Vln. I

Vln. II

Vla.

Vc.

D.B.

This block contains five musical staves for string instruments: Violin I (Vln. I), Violin II (Vln. II), Viola (Vla.), Violoncello (Vc.), and Double Bass (D.B.). Each staff begins with a treble clef for the Violins and Viola, and a bass clef for the Violoncello and Double Bass. The staves are empty, showing only the horizontal lines and bar lines for measures 64 through 73.

64

Audio

Video

E

77

Fl.

Ob.

B♭ Cl.

Bsn.

Hn.

C Tpt.

Tbn.

Tuba

77 Keep slowly moving away from where you began. Start to fade out when the ensemble enters. Finish before the video starts.

Improvisers

77

Vln. I

Vln. II

Vla.

Vc.

D.B.

77

Audio

Video



89

Fl. *p*  $\rightarrow$  *mf* *p*  $\rightarrow$  *mf* *p*  $\rightarrow$  *mf* *p*  $\rightarrow$  *mf*

Ob. *p*  $\rightarrow$  *mf* *p*  $\rightarrow$  *mf* *p*

B♭ Cl. *p*  $\rightarrow$  *mf* *p*

Bsn. *p*  $\rightarrow$  *mf*

89

Hn. *p*  $\rightarrow$  *mf* *p*  $\rightarrow$  *mf* *p*

C Tpt. *p*  $\rightarrow$  *mf* *p*

Tbn. *p*  $\rightarrow$  *mf* *pp*  $\rightarrow$  *mf*

Tuba *p*  $\rightarrow$  *mf* *pp*  $\rightarrow$  *mf*

89

Improvisers

89

Vln. I *mf* *p*  $\rightarrow$  *mf* *p*  $\rightarrow$  *mf* *p*  $\rightarrow$  *mf*

Vln. II *p*  $\rightarrow$  *mf* *p*  $\rightarrow$  *mf* *p*  $\rightarrow$  *mf* *p*  $\rightarrow$  *mf*

Vla. *p*  $\rightarrow$  *mf* *p*  $\rightarrow$  *mf* *p*  $\rightarrow$  *mf* *p*  $\rightarrow$  *mf*

Vc. *mf* *p*  $\rightarrow$  *mf* *p*  $\rightarrow$  *mf* *p*  $\rightarrow$  *mf*

D.B. *mf* *pp*  $\rightarrow$  *mf* *pp*

89

Audio

Video

Musical score for woodwinds and brass instruments. The instruments listed are Flute (Fl.), Oboe (Ob.), Bass Clarinet (B♭ Cl.), Bassoon (Bsn.), Horn (Hn.), Trumpet (C Tpt.), Trombone (Tbn.), and Tuba. The score includes dynamic markings such as *p*, *mf*, *pp*, and *ppp*, along with phrasing slurs and accents. The C Trumpet part includes the instruction "Con sord." (Con sordina).

Continue from where you stopped.

Improvise

Musical score for strings and double bass. The instruments listed are Violin I (Vln. I), Violin II (Vln. II), Viola (Vla.), Violoncello (Vc.), and Double Bass (D.B.). The score includes dynamic markings such as *p*, *mf*, and *pp*, along with phrasing slurs and accents.

Audio and Video recording tracks. The Audio track is a horizontal line with a vertical bar at the beginning. The Video track is a horizontal line with a vertical bar at the beginning.

Musical score for woodwinds and brass instruments. The instruments listed are Flute (Fl.), Oboe (Ob.), Bass Clarinet (B♭ Cl.), Bassoon (Bsn.), Horn (Hn.), Trumpet (C Tpt.), Trombone (Tbn.), and Tuba. The score includes dynamic markings such as *p*, *mf*, and *pp*, and a rehearsal mark *102*. The music is written in a 4/4 time signature.

102 Keep moving further away.

Improvise

Musical score for string instruments. The instruments listed are Violin I (Vln. I), Violin II (Vln. II), Viola (Vla.), Violoncello (Vc.), and Double Bass (D.B.). The score includes dynamic markings such as *mf*, *p*, and *pp*, and a rehearsal mark *102*. The music is written in a 4/4 time signature.

102  
Audio  
Video

Musical score for the first section of instruments. The score includes parts for Flute (Fl.), Oboe (Ob.), Clarinet in B-flat (B♭ Cl.), Bassoon (Bsn.), Horn (Hn.), Trumpet in C (C Tpt.), Trombone (Tbn.), and Tuba. The music is in 4/4 time and features dynamic markings such as *p*, *mf*, and *mp*. It includes various musical notations like triplets, quintuplets, and slurs. The section begins at measure 109.

Improvvisers

Musical score for the second section of instruments, labeled "Improvvisers". It includes parts for Violin I (Vln. I), Violin II (Vln. II), Viola (Vla.), Violoncello (Vc.), and Double Bass (D.B.). The score features dynamic markings like *p*, *mf*, and *mp*, along with musical notations such as slurs and triplets. The section begins at measure 109.

Audio and Video tracks for the performance. The Audio track is labeled "Audio" and the Video track is labeled "Video". Both tracks begin at measure 109.

Musical score for woodwinds and brass instruments. The score is divided into three measures. The instruments listed are Flute (Fl.), Oboe (Ob.), B♭ Clarinet (B♭ Cl.), Bassoon (Bsn.), Horn (Hn.), Trumpet (C Tpt.), Trombone (Tbn.), and Tuba. The notation includes various dynamics such as *mf*, *p*, and *mp*, and includes triplets and slurs. The key signature has one sharp (F#).

113 Create more tension.

Improvise

Musical score for string instruments. The score is divided into three measures. The instruments listed are Violin I (Vln. I), Violin II (Vln. II), Viola (Vla.), Violoncello (Vc.), and Double Bass (D.B.). The notation includes various dynamics such as *mf*, *p*, and *mp*, and includes triplets and slurs. The key signature has one sharp (F#).

113

Audio

Video

116

Fl. *p mf<sup>3</sup> p mf p mf p* *mf p mf<sup>3</sup> p mf<sup>3</sup>* *p mf p mf p mf*

Ob. *mf p mf p mf<sup>3</sup> p mf<sup>3</sup>* *p mf p mf p* *mf p mf<sup>3</sup> p mf<sup>3</sup> p*

B♭ Cl. *mf* *p* *mf* *p*

Bsn. *mf* *p* *mf* *p* *mf*

Hn. *mf p mf p mf p* *mf p mf p* *mf p mf p mf*

C Tpt. *p mf p mf<sup>3</sup>* *p mf<sup>3</sup>* *p mf<sup>3</sup> p*

Tbn. *p* *mf mp* *p*

Tuba *p* *mf* *p* *mf*

Improvisers

Vln. I *mf p mf<sup>3</sup> mf* *mf<sup>3</sup> p* *mf p mf<sup>3</sup>*

Vln. II *mp p* *mf* *mp p*

Vla. *p* *mf* *p* *mf*

Vc. *p* *mf<sup>3</sup>* *p* *mf<sup>3</sup>*

D.B. *mf p* *mf* *p*

116

Audio

Video

119

Fl. *p* *mf* *p* *mf* *p* *mf* *p* *p* *p* *p* *f* *p*

Ob. *mf* *p* *mf* *p* *mf* *p* *mf* *p* *p* *p* *f* *p*

B♭ Cl. *mf* *p* *mf* *p* *mf* *p* *mf* *p* *p* *p* *f* *p*

Bsn. *p* *mf* *p* *p* *f* *p*

Hn. *p* *mf* *p* *mf* *p* *p* *p* *f* *p* Senza sord.

C Tpt. *mf* *p* *mf* *p* *p* *p* *f* *p* Senza sord.

Tbn. *mf* *mp* *p* *p* *f* *p* Senza sord.

Tuba *p* *p* *f* *p* Senza sord.

Sus. Cym. medium mallets  
slow tremolo >> *ppp* fast tremolo >> *f*

119

Improvisers

Vln. I *p* *mf* *p* *mf* *p* *p* *pp* *f* fast tremolo >> gliss. slow tremolo >>

Vln. II *mf* *p* *pp* *f* fast tremolo >> slow tremolo >>

Vla. *p* *mf* *p* *pp* *f* fast tremolo >> slow tremolo >>

Vc. *p* *mf* *p* *pp* *f* fast tremolo >> gliss. slow tremolo >>

D.B. *mf* *p* *pp* *f* fast tremolo >> slow tremolo >>

119

Audio

Video

Reach a new place.  
Try to coexist with the ensemble and the electronic audio;  
do not fight them.

128

Fl. *p* *f* *p* *p* *f* *p*

Ob. *p* *f* *p* *p* *f* *p*

B♭ Cl. *p* *f* *p* *p* *f* *p*

Bsn. *p* *f* *p* *p* *f* *p*

Hn. *p* *f* *p* *p* *f* *p*

C Tpt. *p* *f* *p* *p* *f* *p* *p*

Tbn. *p* *f* *p* *p* *f* *p* *p* *mf*

Tuba *p* *f* *p* *p* *f* *p* *p* *mf* *p*

Sus. Cym. *ppp* *f* *ppp* *f*

Improvisers

128 Disintegrate into something new.

Vln. I *pp* *pp* *f* *pp* *pp* *f* *pp*

Vln. II *pp* *pp* *f* *pp* *pp* *f* *pp*

Vla. *pp* *pp* *f* *pp* *pp* *f* *pp*

Vc. *pp* *pp* *f* *pp* *pp* *f* *pp*

D.B. *pp* *pp* *f* *pp* *pp* *f* *pp*

128

Audio

Video



G

141

Fl.

Ob.

B♭ Cl.

Bsn.

Hn.

C Tpt.

Tbn.

Tuba

Sus. Cym.

Improvisers

Vln. I

Vln. II

Vla.

Vc.

D.B.

Audio

Video

*mf* *p*

*p* *mf* *p*

slow tremolo

*ppp*

Fade out.

152

Fl.

Ob.

B♭ Cl.

Bsn.

152

Hn.

C Tpt.

Tbn.

Tuba

152

**Improvise** Keep exploring the last sounds you were playing, within a quiet and sparse texture.

---

152

Vln. I

Vln. II

Vla.

Vc.

D.B.

152

Audio

Video

---

H

164

Fl. *p*

Ob.

B♭ Cl. *p*

Bsn.

Hn. *p* Con sord.

C Tpt. *pp* Con sord. *mf*

Tbn. *pp* Con sord. *mf* *pp*

Tuba *pp* Con sord. *mf* *pp*

Hi-Hat closed hi-hat *p* 3 5

164 Create a more granular texture.

164

Vln. I *p* pizz.

Vln. II *p* pizz.

Vla.

Vc. *p* pizz.

D.B. *p* pizz.

164

Audio

Video

*172*  
Fl. *p*  
Ob. *p*  
B♭ Cl. *p*  
Bsn. *p*  
*172*  
Hn. *pp* *pp* *mf*  
C Tpt. *pp* *mf* *pp*  
Tbn. *pp* *mf* *pp*  
Tuba *pp* *mf* *pp*  
Hi-Hat *3* *5*  
Improvisers  
Vln. I *172*  
Vln. II  
Vla. *pizz.* *p*  
Vc. *172*  
D.B. *172*  
Audio  
Video

176

Fl.

Ob.

B♭ Cl.

Bsn.

176

Hn.

C Tpt.

Tbn.

Tuba

Hi-Hat

176

Improvisers

176

Vln. I

Vln. II

Vla.

Vc.

D.B.

176

Audio

Video

*pp* *mf* *pp* *pp* *mf* *pp*

5 5 5

Detailed description: This page of a musical score contains measures 176 through 179. The instrumentation includes woodwinds (Flute, Oboe, Bass Clarinet, Bassoon), brass (Horn, Trumpet, Trombone, Tuba), percussion (Hi-Hat), and strings (Violin I, Violin II, Viola, Violoncello, Double Bass). The woodwinds and brass sections have sparse, rhythmic entries. The strings play sustained notes with dynamic markings of *pp* (pianissimo) and *mf* (mezzo-forte). The Hi-Hat features a rhythmic pattern of eighth notes in measures 177 and 178, with a '5' written below the notes. The Improvisers, Audio, and Video tracks are currently blank.

180

Fl. *mf*

Ob. multiphonic *mf*

B♭ Cl. multiphonic *mf*

Bsn. multiphonic *mf*

180

Hn. *mf*

C Tpt. *pp* *mf*

Tbn. *pp* *mf* *pp*

Tuba *pp* *mf*

Hi-Hat

180

Improvisers

Vln. I arco *mf*

Vln. II arco *mf*

Vla. arco *mf*

Vc. arco *mf*

D.B. arco *mf*

180

Audio

Video

183

Fl. *pp* *mf* *pp* *mf* *pp* *mf* *pp*

Ob. *pp* *mf* *pp* *mf*

B♭ Cl. *pp* *mf* *pp* *mf* *pp* *mf*

Bsn. *pp* *mf* *pp* *mf* *pp* *mf*

Hn. *pp* *mf* *pp* *mf* *pp* *mf*

C Tpt. *pp* *pp*

Tbn. *pp* *mf*

Tuba *pp* *pp* *mf*

Hi-Hat half open hi-hat *mp*

Improvisers

Vln. I *pp* *mf* *pp* *mf* *pp* *mf* *pp*

Vln. II *pp* *mf* *pp* *mf*

Vla. *pp* *mf* *pp* *mf*

Vc. *pp* *mf* *pp* *mf* *pp*

D.B. *pp* *mf* *pp* *mf* *pp* *mf*

Audio

Video

186

Fl. *mf* *pp* *mf* *pp* *mf*

Ob. *pp* *mf* *pp* *mf* *pp* *mf*

B $\flat$  Cl. *pp* *mf* *pp* *mf* *pp*

Bsn. *pp* *mf* *pp* *mf* *pp* *mf*

Hn. *pp* *mf* *pp* *mf* *pp* *mf*

C Tpt. *mf* *pp* *pp*

Tbn. *pp* *pp* *mf*

Tuba *pp* *pp*

Hi-Hat *3* *3* *5* *5* *3* *6* *5* *6* *5* *3*

186

Improvisers

Vln. I *mf* *pp* *mf* *pp* *mf*

Vln. II *pp* *mf* *pp* *mf* *pp*

Vla. *pp* *mf* *pp* *mf* *pp* *mf*

Vc. *mf* *pp* *mf* *pp* *mf*

D.B. *pp* *mf* *pp* *mf* *pp* *mf* *pp*

186

Audio

Video



189

Fl. *pp* *mf* *pp* *mf* *pp* *mf*

Ob. *pp* *mf* *pp* *mf* *pp*

B♭ Cl. *mf* *pp* *mf* *pp* *mf*

Bsn. *pp* *mf* *pp* *mf* *pp* *mf*

Hn. *pp* *mf* *pp* *mf* *pp*

C Tpt. *mf* *pp*

Tbn. *pp* *pp*

Tuba *mf* *pp*

Hi-Hat *mf* open hi-hat

189

Improvisers

Vln. I *pp* *mf* *pp* *mf* *pp* *mf*

Vln. II *mf* *pp* *mf* *pp* *mf*

Vla. *pp* *mf* *pp* *mf* *pp* *mf*

Vc. *pp* *mf* *pp* *mf* *pp* *mf*

D.B. *mf* *pp* *mf* *pp* *mf* *pp* *mf* *pp* *mf* *pp*

189

Audio

Video

This page of a musical score, numbered 32, contains staves for various instruments and sections. The score is divided into two main systems. The first system includes woodwinds (Flute, Oboe, B♭ Clarinet, Bassoon, Horn), brass (Trumpet, Trombone, Tuba), and percussion (Hi-Hat). The second system includes string instruments (Violin I, Violin II, Viola, Violoncello, Double Bass) and a section for Improvisers. The score begins at measure 192. A first ending bracket labeled 'I' spans measures 192 through 195. Dynamic markings such as *pp*, *mf*, *p*, and *f* are used throughout. The Hi-Hat part features a rhythmic pattern of eighth notes with triplet and quintuplet markings. The Improvisers section contains the instruction "Collapse, but keep playing." The bottom of the page has empty staves for Audio and Video recording.

196

Fl.

Ob.

B $\flat$  Cl.

Bsn.

196

Hn.

C Tpt.

Tbn.

Tuba

Hi-Hat

196

Improvisers

Slowly change.

196

Vln. I

Vln. II

Vla.

Vc.

D.B.

196

Audio

Video

Detailed description: This page contains a musical score for 15 different parts. The parts are arranged vertically. The first four parts are woodwinds: Flute (Fl.), Oboe (Ob.), B-flat Clarinet (B $\flat$  Cl.), and Bassoon (Bsn.). The next four parts are brass: Horn (Hn.), C Trumpet (C Tpt.), Trombone (Tbn.), and Tuba. The fifth part is Hi-Hat. The sixth part is Improvisers, with the instruction 'Slowly change.' written below the staff. The next four parts are strings: Violin I (Vln. I), Violin II (Vln. II), Viola (Vla.), and Violoncello (Vc.). The seventh part is Double Bass (D.B.). The eighth part is Audio, and the ninth part is Video. Each part has a staff with a treble or bass clef and a key signature of one flat. The score is marked with '196' at the beginning of each section. The Hi-Hat part shows a rhythmic pattern of eighth notes. The Improvisers part is a blank staff with the instruction 'Slowly change.' written below it. The string parts are blank staves.

J

210

Fl.

Ob.

B♭ Cl.

Bsn.

Hn.

C Tpt.

Tbn.

Tuba

Hi-Hat

Improvisers

210

Vln. I

Vln. II

Vla.

Vc.

D.B.

210

Audio

Video

**K**

Musical score for brass and woodwind instruments. The score includes parts for Flute (Fl.), Oboe (Ob.), B♭ Clarinet (B♭ Cl.), Bassoon (Bsn.), Horn (Hn.), C Trumpet (C Tpt.), Trombone (Tbn.), and Tuba. The score is marked with dynamics such as *f* (forte) and *p* (piano), and includes performance instructions like "key clicks" and "slap tongue". The score is divided into measures, with a section starting at measure 227.

Improvise

227 Continue.

Using a lot of downward pressure on the lowest string, very slowly twist the bow back and forth to create crackling noises. Continue until the end of the piece.

Vln. I *pp*

Vln. II *pp*

Vla. *pp*

Vc. *pp*

D.B. *pp*

227

Audio

Video

235

Fl.

Ob.

B $\flat$  Cl.

Bsn.

235

Hn.

C Tpt.

Tbn.

Tuba

Hi-Hat

235

Improvvisers

235

Vln. I

Vln. II

Vla.

Vc.

D.B.

235

Audio

Video