

Fabrication 32: Manoeuvre

orchestra

Flute

Piccolo

2 Oboes

Clarinet in E \flat

Clarinet in B \flat

2 Bassoons

2 Horns in F

2 Trumpets in C

Tenor Trombone

Tuba

3 Percussion

1. timbales, xylophone

2. small tambourine, vibraphone

3. large tambourine, marimba

2 Pianos

Strings

(8.8.6.6.3)

Fabrication 32: Manoeuvre

after John Conway's *Game of Life*

♩ = 172c. *sprung, buoyant*

This musical score is for 'Fabrication 32: Manoeuvre', a piece inspired by John Conway's Game of Life. The score is written for a large ensemble and is set in 3/8 time with a tempo of 172 beats per minute, characterized by a 'sprung, buoyant' feel. The instrumentation includes:

- Flute 1
- Piccolo
- Oboes
- ♭ Clarinet
- ♭ Clarinet
- Bassoons
- Horns
- Trumpets
- Tenor Trombone
- Tuba
- Percussion (XYLO., VIB., MAR.)
- Piano 1
- Piano 2
- Violin (i-viii)
- Violin (ix-xvi)
- Viola
- Violoncello
- Contrabass

The score features a variety of rhythmic patterns, including eighth and sixteenth notes, and rests. Dynamics are marked with *f* (forte) throughout. The percussion part includes specific instructions for the xylophone (medium sticks, motor off), vibraphone, and maracas. The string parts include divisi (DIV.) markings for the violins and violas, indicating multiple players per part. The overall texture is dense and rhythmic, reflecting the complex patterns of Conway's Game of Life.

Fabrication 32

11

Fl.1

Picc.

Obs. 2^o

Ob.

E♭ Cl.

B♭ Cl.

Bns.

1

Hns.

2

1

Tpt.

2

Tpts.

1

Tbn.

2

Tbas.

XYLO.

1

Pc.

VIB.

2

MAR.

3

Pno.1

Pno.2

i-viii

Vn.

ix-xii

xiii-xvi

Va.

Vc.

Ch.

23

Fl.1
Picc.
Obs.
1
Ob.
2
Eb Cl.
Bb Cl.
Bns.
1
Hns.
2
1
Tpt.
2
Tbn.
Tba.
XYLO.
1
Pc.
VIB.
2
MAR.
3
Pno.1
Pno.2
i-viii
Vn.
ix-xvi
Va.
Vc.
Cb.

34

Fl.1

Picc.

Obs.

E♭ Cl.

Bsn.

Hn.2

Tpt.1

Tbn.

Tba.

Pno.1

45

Fl.1
Picc.
Obs.
Eb Cl.
Bb Cl.
Bns.
Hns. *a 2*
Tpts.
Tbn.
Tba.
XVLO.
1
Pc. VIB.
2
MAR. *ff*
3
Pno.1
Pno.2
i-viii
Vn.
ix-xvi
Va.
Ve.
Cb.

54

Fl.1

Picc.

Obs.

E♭ Cl.

B♭ Cl.

Bns.

Hns.

1

Tpt.

2

Tbn.

Tba.

XYLO.

1

VIB.

Pc.

2

MAR.

3

Pno.1

Pno.2

i-viii

Vn.

ix-xvi

Va.

i-iii

Ve.

iv-vi

Cb.

Detailed description: This page of a musical score, titled 'Fabrication 32', is page 6. It begins at measure 54. The score is arranged in a multi-staff format. The woodwind section includes Flute 1 (Fl.1), Piccolo (Picc.), Oboe (Obs.), E-flat Clarinet (E♭ Cl.), B-flat Clarinet (B♭ Cl.), Bassoon (Bns.), Horns (Hns.), Trumpets (Tpt. 1 and 2), Trombone (Tbn.), and Tuba (Tba.). The percussion section includes Xylophone (XYLO.), Vibraphone (VIB.), and Maracas (MAR.). The piano section consists of Piano 1 (Pno.1) and Piano 2 (Pno.2). The string section includes Violins (i-viii), Violas (ix-xvi), Violas (Va.), Cellos (i-iii), Double Basses (Ve.), Double Basses (iv-vi), and Contrabass (Cb.). The score features a variety of rhythmic patterns, including eighth and sixteenth notes, and rests. The notation is in black ink on a white background.

64

Fl.1

Picc.

Obs.

E♭ Cl.

B♭ Cl.

1

Bn.

2

Hns.

Tpts.

Tbn.

Tba.

XVLO.

1

Pc.

VIB.

2

MAR.

3

Pno.1

Pno.2

i-viii

Vn.

ix-xvi

Va.

Vc.

Cb.

Detailed description: This page of a musical score, titled 'Fabrication 32', is page 7. It features a large ensemble of instruments. The woodwind section includes Flute 1 (Fl.1), Piccolo (Picc.), Oboe (Obs.), E-flat Clarinet (E♭ Cl.), B-flat Clarinet (B♭ Cl.), Bassoon 1 (Bn. 1), Bassoon 2 (Bn. 2), Horns (Hns.), Trumpets (Tpts.), Trombones (Tbn.), and Tubas (Tba.). The string section consists of Violins (i-viii), Violas (ix-xvi), Violas (Va.), Cellos (Vc.), and Double Basses (Cb.). The percussion section includes Xylophone (XVLO.), Percussion 1 (Pc.), Vibraphone (VIB.), and Maracas (MAR.). The score is written in a complex rhythmic style with many sixteenth and thirty-second notes. The key signature has one flat (B-flat), and the time signature is 8/8. The page number '64' is at the top left, and the page number '7' is at the top center. The title 'Fabrication 32' is at the top right. The instruments are listed on the left side of the page.

75

Fl.1

Picc.

Obs.

E♭ Cl.

B♭ Cl.

Bns.

Hns.

Tpts.

Tbn.

Tba.

XYLO.

1

Pc.

VIB.

2

MAR.

3

Pno.1

Pno.2

i-viii

Vn.

ix-xvi

Va.

Vc.

Cb.

mp sub.

mp sub.

mp sub.

mp sub.

85

Fl.1

Picc.

Obs.

E♭ Cl.

B♭ Cl.

Bsn.

Hns.

Tpts.

Tbn.

Tba.

1 XYLO.

2 Pic. VIB.

3 MAR.

Pno.1

Pno.2

i-viii

Vn. ix-xii

xiii-xvi

Va.

Vc.

Cb.

Detailed description: This page of a musical score, titled 'Fabrication 32', contains measures 85 through 94. The score is arranged in a multi-system format. The first system includes woodwinds: Flute 1 (Fl.1), Piccolo (Picc.), Oboe (Obs.), E-flat Clarinet (E♭ Cl.), B-flat Clarinet (B♭ Cl.), and Bassoon (Bsn.). The second system includes brass: Horns (Hns.), Trumpets (Tpts.), Trombones (Tbn.), and Tubas (Tba.). The third system includes percussion: 1. Xylophone (XYLO.), 2. Piccolo/Vibraphone (Pic. VIB.), and 3. Maracas (MAR.). The fourth system includes piano: Piano 1 (Pno.1) and Piano 2 (Pno.2). The fifth system includes strings: Violins i-viii (Vn. ix-xii), Violas (Va.), Cellos (Vc.), and Double Basses (Cb.). The notation is primarily rhythmic, featuring eighth and sixteenth notes, often in beamed patterns. There are several rests throughout the score, particularly in the woodwind and brass sections. The key signature is not explicitly shown but appears to be one flat (B-flat major or E-flat minor).

96

Fl.1
Picc.
Obs. 1º
Eb Cl.
Bb Cl.
Bns.
Hns.
Tpts.
Tbn.
Tba.
Pc.3
Pno.1
Pno.2
i-viii
Vn. ix-xii
xiii-xvi
Va.
Vc.
Cb.

This page of the musical score, titled 'Fabrication 32', page 13, contains the following parts and markings:

- Fl.1:** Flute 1, measures 135-144. Dynamics: *ff*, *mf*.
- Picc.:** Piccolo, measures 135-144. Dynamics: *ff*, *mf*.
- Obs.:** Oboe, measures 135-144. Dynamics: *mf*.
- E♭ Cl.:** E-flat Clarinet, measures 135-144. Dynamics: *ff*, *mf*.
- B♭ Cl.:** B-flat Clarinet, measures 135-144. Dynamics: *ff*, *mf*.
- Bns.:** Bassoon, measures 135-144. Dynamics: *ff*, *mf*.
- Hns.:** Horns, measures 135-144. Dynamics: *mf*.
- Tpts.:** Trumpets, measures 135-144. Dynamics: *ff*, *mf*.
- Tbn.:** Trombones, measures 135-144. Dynamics: *mf*.
- Tba.:** Tuba, measures 135-144. Dynamics: *mf*.
- XYLO. 1:** Xylophone 1, measures 135-144. Dynamics: *mf*.
- Pc. 2:** Vibraphone 2, measures 135-144. Dynamics: *mf*.
- MAR. 3:** Maracas 3, measures 135-144. Dynamics: *mf*.
- Pno.1:** Piano 1, measures 135-144.
- Pno.2:** Piano 2, measures 135-144.
- i-viii Vn.:** Violins i-viii, measures 135-144. Dynamics: *ff*, *mf*.
- ix-xvi Vn.:** Violins ix-xvi, measures 135-144. Dynamics: *ff*, *mf*.
- Va.:** Viola, measures 135-144. Dynamics: *mf*. Includes marking: *DIV. a 3*.
- Vc.:** Violoncello, measures 135-144. Dynamics: *mf*. Includes marking: *DIV. a 3*.
- Cb.:** Contrabass, measures 135-144. Dynamics: *ff*, *mf*.

144

Fl.1

Picc.

Obs.

E♭ Cl.

B♭ Cl.

Bns.

Hns.

Tpts.

Tbn.

Tba.

XYLO.

1

VIB.

2

MAR.

3

i-viii (DIV.)

Vn.

ix-xvi (DIV.)

Va.

Vc. (DIV.)

Cb.

170

Fl. I

Picc.

Obs.

E♭ Cl.

B♭ Cl.

Bns.

Hns.

Tpts.

Tbn.

Tba.

XYLO.

1

VIB.

2

MAR.

3

i-viii

Vn.

ix-xvi

Va.

Vc.

Cb.

f

f

f

Fabrication 32

This page of the musical score, titled "Fabrication 32" and numbered "18", contains 24 staves of music. The score is written in 8/8 time and begins at measure 180. The instruments and parts are as follows:

- Fl. 1:** Flute 1, starting with a melodic line.
- Picc.:** Piccolo, playing a rhythmic accompaniment.
- Obs.:** Oboe, playing a melodic line.
- E♭ Cl.:** E-flat Clarinet, playing a melodic line.
- B♭ Cl.:** B-flat Clarinet, playing a melodic line.
- Bas.:** Bassoon, playing a melodic line.
- Hms.:** Horns, playing a rhythmic accompaniment.
- Tpts.:** Trumpets, playing a rhythmic accompaniment.
- Tbn.:** Trombones, playing a rhythmic accompaniment.
- Tba.:** Tuba, playing a rhythmic accompaniment.
- XVLO.:** Xylophone, playing a rhythmic accompaniment.
- Pc. 2:** Percussion 2, playing a rhythmic accompaniment.
- MAR.:** Maracas, playing a rhythmic accompaniment.
- ii.ii:** Violin II, playing a rhythmic accompaniment.
- iii.iv:** Violin III/IV, playing a rhythmic accompaniment.
- v.vi:** Violin V/VI, playing a rhythmic accompaniment.
- vii.viii:** Violin VII/VIII, playing a rhythmic accompaniment.
- Vn.:** Viola, playing a rhythmic accompaniment.
- ix.x:** Violoncello, playing a rhythmic accompaniment.
- xi.xii:** Violoncello, playing a rhythmic accompaniment.
- xiii.xiv:** Violoncello, playing a rhythmic accompaniment.
- xv.xvi:** Violoncello, playing a rhythmic accompaniment.
- i.ii:** Double Bass, playing a rhythmic accompaniment.
- Va. iii.iv:** Viola, playing a rhythmic accompaniment.
- v.vi:** Violin V/VI, playing a rhythmic accompaniment.
- i.ii:** Double Bass, playing a rhythmic accompaniment.
- Ve. iii.iv:** Violoncello, playing a rhythmic accompaniment.
- v.vi:** Violin V/VI, playing a rhythmic accompaniment.
- i.ii:** Double Bass, playing a rhythmic accompaniment.
- Cb.:** Contrabass, playing a rhythmic accompaniment.
- iii:** Double Bass, playing a rhythmic accompaniment.

The score is marked with a dynamic of *ff* (fortissimo) throughout. The notation includes various rhythmic values, rests, and articulation marks.

192

FL. I

Picc.

Obs.

E♭ Cl.

Bns.

Hns.

Tpts.

Tbn.

Tba.

XVLO.

1

2

Pc.

VIB.

i.ii

iii.iv

v.vi

vii.viii

Vn.

ix.x

xi.xii

xiii.xiv

xv.xvi

i.ii

Va.

iii.iv

v.vi

i.ii

Vc.

iii.iv

v.vi

i.ii

Cb.

iii

206

Fl.1
Picc.
1
Ob.
2
Bb Cl.
Bb Cl.
1
Hns.
2
1
Tpt.
2
Tbn.
Tba.
1
Pc.
3
Pno.1
Pno.2
i-iv
v-viii
Vn.
ix-xii
xiii-xvi
i.ii
Va.
iii.iv
v.vi

*) tongue ram
**) air sound: no pitch
***) slaptongue
****) damp strings

♩ = 132c. firmly

FL.1

Picc. *sfz*
tuh tuh

1
Ob. *f*

2
Ob. *f*

E♭ Cl. *ff*
f

B♭ Cl. *sfz*
ff
f

Tpts. *sfz*
a 2
gt.

Tbn. *ff*

Tba. *ff*

TIMB. *ff*
norm.

Pc. 1
VIB. *ff*

2
BGOS. *ff*
norm. with sticks
p con *mf*

Pno.1 *mf*

Pno.2 *mf*

iii
Vn. *p*
UNIS. arco
tr# *mf*

iii-viii

ix-xvi *pp*
DIV. arco
p *mf*

Va. *ff*
UNIS. pizz.

Ve. *ff*
UNIS. pizz.

Cb. *ff*

219

Fl.1

Picc.

Obs.

E♭ Cl.

B♭ Cl.

Pc.2
VIB.

Pno.1

Pno.2

i.ii

Vn.
iii-viii

ix-xvi

mf

ff *mp*

f

mp

mf

ff *mp*

f

mf

ff *mp*

f

mp

mf

pp

mp

223

Fl.1 *mp*

Picc. *mp*

Obs. *mp* *f* *f* *mp sub.*

E♭ Cl. *mp* *f* *f* *mp sub.*

B♭ Cl. *mp* *f* *f* *mp sub.*

Bns. *f* *f* *mp sub.*

Hns. *con sord.* *mp* *mf*

Tbn. *mp* *mf*

Pc.2 *f*

Pno.1 *f*

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

i-viii Vn. *DIV.* *p*

ix-xvi Vn. *UNIS. con sord.* *mp* *p* *mf* *p* *DIV.* *p*

228

Obs. *mf* *p*

E♭ Cl. *mf* *p* *mp*

B♭ Cl. *mf* *p* *mp*

Bns. *mf* *p*

1 Hns. *pp*

2 Hns. *pp*

Tpts. *pp* con sord. (harmon)

Tbn. *pp*

Pno.1

Pno.2

i-viii Vn. (DIV.)

ix-xvi Vn. (DIV.)

♩ = 106c.

232

Picc. *p*

E♭ Cl. *p*

B♭ Cl. *p*

1 Hns.

2 Hns.

Tpts.

Tbn.

1 TIMB. *mf*

2 SM. TAMB.

3 LG. TAMB. *mf*

on shell *mp*

hit 3 *mp* shake

Pno.1 *mf*

Pno.2 *mf*

i-iv *mp* DIV. *pp* UNIS. DIV. *mp*

v-viii *mp* DIV. *pp* UNIS. DIV. *mp*

Vn. ix.x *mp* DIV. *pp* UNIS. DIV. *mp*

xi.xii *mp* DIV. *pp* UNIS. DIV. *mp*

xiii-xvi *mp* DIV. *pp* UNIS. DIV. *mp*

Ve. pizz. *mf*

Cb. pizz. *mf*