

# Machine Language

for violin, 6-string electric violin (or viola), cello, percussion

*in memory of Allen Sapp*

***percussion list:***

- \* three cymbals
- \* bongos
- \* three toms, widely spread in pitch
- \* plastic shaft yarn mallets

***note about the electric violin:***

Machine Language was originally written for 6-string electric violin, amplified with a small spherical speaker to enable blending with the acoustic instruments. However, the part is easily playable on viola with a few octave modifications, indicated in the score here.

***program notes:***

In the study of genetic algorithms, computer scientists create virtual species with virtual genetic codes and allow for spontaneous mutations within some kind of Darwinian "survival of the fittest" context. These species reproduce and evolve, doing in minutes what has taken many millions of years for "real" creatures to do, often resulting in an unexpected beast who survives alone, victorious. In one particular case, the test for survival was a wrestling match; generation after generation, virtual wrestlers would tangle, mutate, and (if they survived) reproduce, their bodies evolving into highly optimized wrestling machines. One notably successful (and amusing) species that emerged was an enormously tall, wide and skinny creature that simply fell flat on top of its opponent, smothering it.

Coming in at just under 20 minutes and moving with geological--as opposed to computational--swiftness, Machine Language is in part an imagination of the sounds of the languages these virtual species might speak, or perhaps of the music they might make. There is, I think, a sense of undirected evolution in the piece, but rather than gradual evolution, we have "punctuated equilibria"--discrete moments of change followed by lifetimes of relative stasis. And, rather than admiring a celebrating victor, we finish with harmonious (for lack of a better word) cooperation.

# Machine Language

for violin, 6-string electric violin or viola, cello, percussion

*in memory of Allen Sapp*

dan trueman

♩ = 120  
neutral, minimal vibrato, flat, on the string

The musical score is written for six instruments: Violin, Electric Violin, Viola, Cello, Cymbals, and Drums. The key signature is one sharp (F#) and the time signature is 3/4. The score consists of six staves. The Violin staff has a treble clef and a 3/4 time signature, with a *p* dynamic and two triplet markings. The Electric Violin and Viola staves have treble clefs and a 3/4 time signature, with a *mp* dynamic. The Cello staff has a bass clef and a 3/4 time signature, with a *p* dynamic. The Cymbals staff has a 3/4 time signature. The Drums staff has a 3/4 time signature and a *p* dynamic. The score includes various musical notations such as notes, rests, triplets, and dynamic markings.

rotating brushes on high tom--rotate 180 degrees per beat, with accents where indicated.

bongos on top two lines  
toms below

7

Vln.

Evn.

Vla.

Vc.

Cym.

Drm.

14

Vln.

Evn.

Vla.

Vc.

Cym.

Drm.

A

21

Vln.

Evn.

Vla.

Vc.

Cym.

Drm.

27

Vln.

Evn.

Vla.

Vc.

Cym.

Drm.

33

Vln. Evn. Vla. Vc. Cym. Drm.

39

Vln. Evn. Vla. Vc. Cym. Drm.

46

Vln. *mp* *ff*

Evn.

Vla.

Vc.

Cym.

Drm.

51

Vln.

Evn. *mf*

Vla. *mf*

Vc.

Cym.

Drm.

57

Vln.

Evn.

Vla.

Vc.

Cym.

Drm.

64

Vln.

Evn.

Vla.

Vc.

Cym.

Drm.



71 **B**

Vln. *p*

Evn. *mp*

Vla. *mp*

Vc. *mp*

Cym. *mp*

Drm. *mp*

semi-pont

77

Vln. *pp* *8va* *expressivo* *tr*

Evn. *tr*

Vla. *tr*

Vc. *tr*

Cym. *pp*

Drm. *pp*

82 (8)

Vln. *8va*

Evn. *tr*

Vla. *tr*

Vc. *3* *pizz.* *tr*

Cym.

Drum. *rim trem., with plastic stick of soft mallet*

(effect is achieved with a single stroke, bouncing on the rim of the drum)

86

Vln. *8va* *port.*

Evn. *tr*

Vla. *tr*

Vc. *tr*

Cym.

Drum.

90 *8va port.*

Vln. *tr*

Evnl. *tr*

Vla. *tr*

Vc. *tr*

Cym.

Drm.

94 (8) *port.*

Vln. *tr*

Evnl. *tr* *mp*

Vla. *tr* *mp*

Vc. *arco (legato)* *mp*

Cym.

Drm.

98 *legato; full*  
pont. *tr* *tr* *tr*

Vln. *mf*

Evn.

Vla.

Vc.

Cym.

Drm.

102 **C**

Vln. *tr*

Evn.

Vla.

Vc.

Cym.

Drm.

106

Vln.

Evn.

Vla.

Vc.

Cym.

Drm.

slight pont., at tip, staccato, but gentle

110

Vln.

Evn.

Vla.

Vc.

Cym.

Drm.

(open)

114

Vln.

Evn.

Vla.

Vc.

Cym.

Drm.

118

smooth, unaccented

Vln.

Evn.

Vla.

Vc.

Cym.

Drm.

*p*

norm.

*p*

3

3

3

122

Vln.

Evn.

Vla.

Vc.

Cym.

Drm.

pont.

*p*

126

Vln.

Evn.

Vla.

Vc.

Cym.

Drm.

D

130

Musical score for measures 130-134. The score includes parts for Violin (Vln.), Evn. (Electric Violin), Vla. (Viola), Vc. (Violoncello), Cym. (Cymbal), and Drm. (Drum). The time signature changes from 2/4 to 3/4. Performance instructions include "mostly pont." for the Evn. and Vla. parts, "tasto" for the Vc. part, and "(brushes)" and "light brush strokes" for the Cym. and Drm. parts. A dynamic marking of *p* is present at the end of the section.

135

Musical score for measures 135-139. The score includes parts for Violin (Vln.), Evn. (Electric Violin), Vla. (Viola), Vc. (Violoncello), Cym. (Cymbal), and Drm. (Drum). The time signature changes from 2/4 to 3/4. The Evn. and Vc. parts feature melodic lines with slurs. The Cym. and Drm. parts continue with rhythmic patterns.



140

Vln. Evn. Vla. Vc. Cym. Drm.

Detailed description: This block contains the musical score for measures 140 through 144. The Vln. part features a melodic line with a slur over measures 140-141 and a fermata in measure 142. The Evn., Vla., and Vc. parts have rhythmic patterns with slurs and accents. The Cym. part has a simple rhythmic accompaniment. The Drm. part has a steady eighth-note pattern. The key signature has one flat, and the time signature is 2/4.

145

**E** snap pizz.

Vln. Evn. Vla. Vc. Cym. Drm.

Detailed description: This block contains the musical score for measures 145 through 149. At measure 145, there is a section change marked with a box containing the letter 'E' and the instruction 'snap pizz.'. The Vln. part has a fermata in measure 145 and then a dynamic marking of *f* in measure 149. The Evn. part has a dynamic marking of *mf* in measure 149. The Vla. part has a dynamic marking of *mf* in measure 149. The Vc. part has a dynamic marking of *f* in measure 149 and the instruction 'pont.' above it. The Cym. part has a dynamic marking of *mp* in measure 149. The time signature changes from 2/4 to 3/4 at measure 149. The key signature has one flat.

151

Vln. Evn. Vla. Vc. Cym. Drm.

*tr*

This musical system covers measures 151 to 155. It features five staves: Violin (Vln.), Viola (Vla.), Violoncello (Vc.), Cymbal (Cym.), and Drum (Drm.). The Violin part has a whole rest in measure 153. The Viola and Violoncello parts include a trill (tr) in measure 154. The Cymbal and Drum parts provide a rhythmic accompaniment with various patterns of notes and rests.

156

Vln. Evn. Vla. Vc. Cym. Drm.

*tr*

This musical system covers measures 156 to 160. It features the same five staves as the previous system. The Violin part has a trill (tr) in measure 157. The Viola and Violoncello parts also include a trill (tr) in measure 157. The Cymbal and Drum parts continue with their rhythmic accompaniment.

161

Vln. Evn. Vla. Vc. Cym. Drm.

*tr* *f* *f* *mf*

This musical system covers measures 161 to 165. It features five staves: Violin (Vln.), Viola (Vla.), Violoncello (Vc.), Cymbal (Cym.), and Drum (Drm.). The Violin part has a treble clef and contains a trill (tr) in measure 161 and a forte (f) dynamic in measure 165. The Viola and Violoncello parts have bass clefs and also feature forte (f) dynamics in measure 165. The Cymbal and Drum parts have a common time signature and include a mezzo-forte (mf) dynamic in measure 165. The score includes various musical notations such as rests, eighth notes, and sixteenth notes.

166

Vln. Evn. Vla. Vc. Cym. Drm.

This musical system covers measures 166 to 170. It features the same five staves as the previous system: Violin (Vln.), Viola (Vla.), Violoncello (Vc.), Cymbal (Cym.), and Drum (Drm.). The Violin part has a treble clef. The Viola and Violoncello parts have bass clefs. The Cymbal and Drum parts have a common time signature. The score includes various musical notations such as rests, eighth notes, and sixteenth notes.

arco, semi-pont

171

Vln. Evn. Vla. Vc. Cym. Drm.

norm., unaccented, smooth  
smooth, flat, at tip, unaccented

175

Vln. Evn. Vla. Vc. Cym. Drm.

snap pizz.  
*ff*  
*f*

arco

177

Vln. Evn. Vla. Vc. Cym. Drm.

l.v.

This block contains the musical score for measures 177 and 178. It features five staves: Violin (Vln.), Evn. (Violin), Viola (Vla.), Violoncello (Vc.), and Cymbal (Cym.). The Violin part has a rest in measure 177 and enters in measure 178 with two triplet eighth notes. The Evn. and Vla. parts play a continuous eighth-note pattern. The Vc. part plays a rhythmic eighth-note pattern. The Cym. part has a triplet eighth-note pattern in measure 177 and a rest in measure 178. The Drm. part plays a rhythmic eighth-note pattern. A first-violin part (l.v.) is indicated for measure 177.

179

Vln. Evn. Vla. Vc. Cym. Drm.

l.v.

This block contains the musical score for measures 179 and 180. It features five staves: Violin (Vln.), Evn. (Violin), Viola (Vla.), Violoncello (Vc.), and Cymbal (Cym.). The Violin part has a rest in measure 179 and enters in measure 180 with two triplet eighth notes. The Evn. and Vla. parts continue their eighth-note patterns. The Vc. part continues its rhythmic eighth-note pattern. The Cym. part has a triplet eighth-note pattern in measure 179 and a rest in measure 180. The Drm. part continues its rhythmic eighth-note pattern. A first-violin part (l.v.) is indicated for measure 179.

181

Vln. 

Evn. 

Vla. 

Vc. 

Cym. 

Drm. 

183

Vln. 

Evn. 

Vla. 

Vc. 

Cym. 

Drm. 

**F**

*p*

*f*

188

Vln.

Evn.

Vla.

Vc.

Cym.

Drm.

*pp*

195

Vln.

Evn.

Vla.

Vc.

Cym.

Drm.

**G**

201 6-7 seconds

pizz. (l.v.)

Vln. *p*

Evln.

Vla.

Vc. pizz. (l.v.) *mp*

Cym.

Drm. *p* medium yarn mallets

209

Vln.

Evln. *mp*

Vla. *mp*

Vc.

Cym.

Drm.

pont.

pont.



215

Vln. Evn. Vla. Vc. Cym. Drm.

Detailed description: This system contains measures 215 through 220. The Violin (Vln.) part starts with a treble clef, a key signature of one sharp (F#), and a 7/8 time signature. It features a melodic line with eighth and sixteenth notes. The Viola (Vla.) and Violoncello (Vc.) parts are in bass clef and play a rhythmic accompaniment of eighth notes. The Violoncello (Vc.) part has a key signature change to one flat (Bb) starting in measure 218. The Cymbal (Cym.) part is marked with a double bar line and a vertical line, indicating it is silent. The Drum (Drm.) part is in bass clef and plays a rhythmic pattern of eighth notes.

220

Vln. Evn. Vla. Vc. Cym. Drm.

pont. pont.

Detailed description: This system contains measures 220 through 225. The Violin (Vln.) part continues its melodic line. The Viola (Vla.) and Violoncello (Vc.) parts play sustained chords, with the word 'pont.' (pizzicato) written above the notes in measures 222-225. The Cymbal (Cym.) part is marked with a double bar line and a vertical line, indicating it is silent. The Drum (Drm.) part is in bass clef and plays a rhythmic pattern of eighth notes.

226

Vln. Evn. Vla. Vc. Cym. Drm.

Detailed description: This system contains measures 226 through 231. The Violin (Vln.) part starts with a treble clef and a key signature of one flat. It features a melodic line with eighth and sixteenth notes, including a sharp sign in the third measure. The Viola (Vla.) part is in bass clef and plays sustained chords. The Violoncello (Vc.) part is in bass clef and plays a rhythmic pattern of eighth notes. The Cymbal (Cym.) and Drum (Drm.) parts are shown with their respective symbols and rhythmic patterns. There are double bar lines at the end of measures 226, 228, and 231.

232

(no harmonic)

Vln. Evn. Vla. Vc. Cym. Drm.

pont. pont.

Detailed description: This system contains measures 232 through 237. The Violin (Vln.) part continues with its melodic line, with a circled note in measure 234 and the instruction "(no harmonic)" above it. The Viola (Vla.) part has a "pont." (ponticello) instruction above it in measure 232. The Violoncello (Vc.) part continues with its rhythmic pattern. The Cymbal (Cym.) and Drum (Drm.) parts continue with their respective patterns. There are double bar lines at the end of measures 232, 234, 236, and 237.

238

Vln.

Evn.

Vla.

Vc.

Cym.

Drm.

pont.

pont.

Detailed description: This system of musical notation covers measures 238 to 244. It features six staves: Violin (Vln.), Viola (Vla.), Violoncello (Vc.), Cymbal (Cym.), and Drums (Drm.). The Violin part begins with a treble clef and a key signature of one sharp (F#). The Viola and Violoncello parts use alto and bass clefs, respectively. The Cymbal and Drums parts are in a simplified notation. The Viola and Violoncello parts have 'pont.' markings above them, indicating a ponticello technique. The Drums part has a complex rhythmic pattern with various note values and rests.

245

Vln.

Evn.

Vla.

Vc.

Cym.

Drm.

arco, semi-pont

pizz. (l.v.)

Detailed description: This system of musical notation covers measures 245 to 250. It features the same six staves as the previous system. The Violin part starts with a rest in measure 245, then has a key signature change to one flat (Bb) and a 'pizz. (l.v.)' marking. The Viola and Violoncello parts have 'arco, semi-pont' markings above them. The Cymbal and Drums parts continue with their respective rhythmic patterns.

251

Vln. arco, semi-pont pizz. (open E.)

Evn.

Vla.

Vc. arco-pont

Cym.

Drm.

258

Vln. arco

Evn.

Vla.

Vc. pizz. arco

Cym.

Drm.

264

Vln. pont. norm.

Evn. (open A.)

Vla. (open A.)

Vc. pont. norm.

Cym.

Drm.

269

Vln. (open E.) pont. norm.

Evn. pont. norm.

Vla. pont. norm.

Vc. pont.

Cym.

Drm.

275

Vln.

Evn.

Vla.

Vc.

Cym.

Drm.

norm.

280

Vln.

Evn.

Vla.

Vc.

Cym.

Drm.

pizz.

(strum)

pp

H

285

Vln. Evn. Vla. Vc. Cym. Drm.

Measures 285-290. The score is in 4/4 time, with a key signature of one sharp (F#). The Vln. part features a melodic line with some rests. The Evn. part has a rhythmic pattern with eighth notes. The Vla. part has a similar rhythmic pattern. The Vc. part features a bass line with triplets and sextuplets. The Cym. part has a simple rhythmic pattern. The Drm. part has a rhythmic pattern with triplets and sextuplets.

290

Vln. Evn. Vla. Vc. Cym. Drm.

Measures 290-295. The score continues in 4/4 time. The Vln. part has markings for 'pont.' (pizzicato) and 'norm.' (normal). The Evn. part has a rhythmic pattern with eighth notes. The Vla. part has a similar rhythmic pattern. The Vc. part features a bass line with triplets and sextuplets. The Cym. part has a simple rhythmic pattern. The Drm. part has a rhythmic pattern with triplets and sextuplets.

296

norm. pont.

Vln.

Evn.

Vla.

Vc.

Cym.

Drm.

301

norm., flat pont. norm.

Vln.

Evn.

Vla.

Vc.

Cym.

Drm.



306

Vln. *pont.*

Evn. *arco., flat, open A* *pont.* *pizz.*

Vla. *arco., flat, open A* *pont.* *pizz.*

Vc. *6* *6* *3*

Cym.

Drm. *6* *3*

311

Vln. *norm.* *pont.* *norm.*

Evn. *arco*

Vla. *arco*

Vc. *6* *3* *6*

Cym.

Drm. *6* *3* *6*

316

Vln. *pont.* *norm.*

Evn. *pont.* *norm., flat*

Vla. *pont.* *norm., flat*

Vc. *3* *6* *3* *6*

Cym.

Drm. *6* *3* *3*

321

Vln. *pont.* *norm.*

Evn. *pont.* *cresc.*

Vla. *pont.* *cresc.*

Vc. *3* *6*

Cym. *3*

Drm. *3* *6* *3*

326

Vln. *pont.* *cresc.* *norm.* *pont.* *norm.* *pont.* *norm.*

Evn. *norm.* *pont.* *norm.*

Vla. *norm.*

Vc. *3* *6*

Cym.

Drm. *3*

331

Vln. *semi-pont* **I**

Evn. (open E.) *semi-pont* *f*

Vla. *f*

Vc. *arco* *f*

Cym.

Drm. *mf* *hard sticks* *f*

334

Vln. Evn. Vla. Vc. Cym. Drm.

Detailed description: This system contains measures 334, 335, and 336. The Vln. part has a long note in measure 335 circled. The Evn. and Vla. parts have notes in measures 335 and 336 circled. The Vc. part has notes in measures 334, 335, and 336. The Cym. part has rests in measures 334 and 335, and a note in measure 336. The Drm. part has a rhythmic pattern of eighth notes in measures 334, 335, and 336. Time signatures are 3/4 for measures 334 and 335, and 4/4 for measure 336.

337

Vln. Evn. Vla. Vc. Cym. Drm.

Detailed description: This system contains measures 337, 338, and 339. The Vln. part has notes in measures 337, 338, and 339. The Evn. and Vla. parts have notes in measures 337, 338, and 339. The Vc. part has notes in measures 337, 338, and 339. The Cym. part has rests in measures 337 and 338, and a note in measure 339. The Drm. part has a rhythmic pattern of eighth notes in measures 337, 338, and 339. Time signatures are 3/4 for measures 337 and 338, and 4/4 for measure 339.

339

Vln. Evn. Vla. Vc. Cym. Drm.

Detailed description: This system contains measures 339 and 340. The Violin (Vln.) part is in treble clef with a key signature of one flat (Bb). It features a melodic line with a half note G4, a quarter note F4, a quarter rest, a half note E4, a half note D4, a quarter note C4, a quarter rest, and a quarter note B3. The Viola (Vln.) part is in treble clef with a key signature of one flat (Bb). It features a melodic line with a half note G4, a quarter note F4, a quarter rest, a half note E4, a half note D4, a quarter note C4, a quarter rest, and a quarter note B3. The Violoncello (Vla.) part is in bass clef with a key signature of one flat (Bb). It features a melodic line with a half note G4, a quarter note F4, a quarter rest, a half note E4, a half note D4, a quarter note C4, a quarter rest, and a quarter note B3. The Violoncello (Vc.) part is in bass clef and features a bass line with a half note G2, a quarter note F2, a quarter rest, a half note E2, a half note D2, a quarter note C2, a quarter rest, and a quarter note B1. The Cym. (Cymbal) part has a single bar line in measure 339 and a single bar line in measure 340. The Drm. (Drum) part is in bass clef and features a rhythmic pattern of eighth notes with a bass drum and snare drum, starting with a quarter rest in measure 339 and continuing through measure 340.

341

Vln. Evn. Vla. Vc. Cym. Drm.

Detailed description: This system contains measures 341 and 342. The Violin (Vln.) part is in treble clef with a key signature of one flat (Bb). It features a melodic line with a half note G4, a quarter note F4, a quarter rest, a half note E4, a half note D4, a quarter note C4, a quarter rest, and a quarter note B3. The Viola (Vln.) part is in treble clef with a key signature of one flat (Bb). It features a melodic line with a half note G4, a quarter note F4, a quarter rest, a half note E4, a half note D4, a quarter note C4, a quarter rest, and a quarter note B3. The Violoncello (Vla.) part is in bass clef with a key signature of one flat (Bb). It features a melodic line with a half note G4, a quarter note F4, a quarter rest, a half note E4, a half note D4, a quarter note C4, a quarter rest, and a quarter note B3. The Violoncello (Vc.) part is in bass clef and features a bass line with a half note G2, a quarter note F2, a quarter rest, a half note E2, a half note D2, a quarter note C2, a quarter rest, and a quarter note B1. The Cym. (Cymbal) part has a single bar line in measure 341 and a single bar line in measure 342. The Drm. (Drum) part is in bass clef and features a rhythmic pattern of eighth notes with a bass drum and snare drum, starting with a quarter rest in measure 341 and continuing through measure 342.

343

Vln. Evn. Vla. Vc. Cym. Drm.

This musical score covers measures 343 to 345. It features five staves: Violin (Vln.), Viola (Vla.), Violoncello (Vc.), Cymbal (Cym.), and Drum (Drm.). The Violin part starts with a treble clef and a key signature of one flat. A fermata is placed over the final note of measure 345. The Viola and Violoncello parts use a C-clef and a key signature of one flat. The Cymbal and Drum parts use a C-clef and a key signature of one flat. The time signature changes from 4/4 to 3/4 in measure 344 and back to 4/4 in measure 345. The Drum part features a rhythmic pattern of eighth notes.

346

Vln. Evn. Vla. Vc. Cym. Drm.

This musical score covers measures 346 to 348. It features five staves: Violin (Vln.), Viola (Vla.), Violoncello (Vc.), Cymbal (Cym.), and Drum (Drm.). The Violin part starts with a treble clef and a key signature of one flat. The Viola and Violoncello parts use a C-clef and a key signature of one flat. The Cymbal and Drum parts use a C-clef and a key signature of one flat. The time signature is 4/4. The Drum part features a rhythmic pattern of eighth notes.

349

Vln. become full pont....

Evn. become full pont....

Vla. become full pont....

Vc.  $\underbrace{\quad\quad\quad}_3 \underbrace{\quad\quad\quad}_3 \underbrace{\quad\quad\quad}_3 \underbrace{\quad\quad\quad}_3$

Cym.

Drm.

352

**J**  $\text{♩} = \text{♩}$

Vln. *mf* *expressivo* norm., on string

Evn. *mf* *expressivo* norm., on string

Vla. *mf* *expressivo* norm., on string

Vc. *mp*

Cym.

Drm. yarn *mp*

355

Vln.

Evn.

Vla.

Vc.

Cym.

Drm.

358

Vln.

Evn.

Vla.

Vc.

Cym.

Drm.



361

Vln. Evn. Vla. Vc. Cym. Drm.

This musical score covers measures 361 to 363. It features six staves: Violin (Vln.), Viola (Vla.), Violoncello (Vc.), Cymbal (Cym.), and Drum (Drm.). The key signature has one flat (B-flat) and the time signature is 6/8. The Violin and Viola parts have melodic lines with some rests. The Violoncello part plays a rhythmic pattern of eighth notes with accents. The Cymbal and Drum parts provide a percussive accompaniment.

364

Vln. Evn. Vla. Vc. Cym. Drm.

This musical score covers measures 364 to 366. It features six staves: Violin (Vln.), Viola (Vla.), Violoncello (Vc.), Cymbal (Cym.), and Drum (Drm.). The key signature has one flat (B-flat) and the time signature is 6/8. The Violin and Viola parts continue their melodic lines. The Violoncello part maintains its rhythmic pattern. The Cymbal and Drum parts continue their accompaniment.

368

Vln. Evn. Vla. Vc. Cym. Drm.

This musical system covers measures 368 to 370. It features five staves: Violin (Vln.), Viola (Vla.), Violoncello (Vc.), Cymbal (Cym.), and Drum (Drm.). The Violin, Viola, and Violoncello parts are in treble clef with a key signature of one flat. The Violoncello part includes a double bar line and repeat sign at the end of each measure. The Cymbal and Drum parts are in a simplified notation, with the Cymbal staff showing rests and the Drum staff showing rhythmic patterns of eighth notes.

371

Vln. Evn. Vla. Vc. Cym. Drm.

This musical system covers measures 371 to 373. It features the same five staves as the previous system. The Violin, Viola, and Violoncello parts continue with melodic and harmonic development. The Violoncello part includes a double bar line and repeat sign at the end of each measure. The Cymbal and Drum parts continue with their respective rhythmic patterns. The system concludes with a double bar line and repeat sign at the end of measure 373.

374

Vln. Evn. Vla. Vc. Cym. Drm.

Detailed description: This block contains the musical score for measures 374, 375, and 376. The score is for a string quartet (Violin I, Violin II, Viola, and Violoncello) and a percussion section (Cymbal and Drum). The key signature has two flats (B-flat and E-flat), and the time signature is 6/8. The Violin I part features a melodic line with eighth and sixteenth notes. The Violin II part follows a similar pattern. The Viola part has a more active line with eighth notes. The Violoncello part plays a rhythmic accompaniment of eighth notes with a consistent eighth-note rest. The Cymbal part has a few notes, and the Drum part plays a steady eighth-note pattern.

377

*♩ = ♪*

**K**

Vln. Evn. Vla. Vc. Cym. Drm.

*f* *f* *f* *f* *mp*

Detailed description: This block contains the musical score for measures 377, 378, 379, and 380. The key signature changes to one flat (B-flat), and the time signature changes to 3/4. A box labeled 'K' is placed above the Violin I staff in measure 379. The Violin I part has a melodic line with a dynamic marking of *f* in measure 379. The Violin II part also has a dynamic marking of *f* in measure 379. The Viola part has a dynamic marking of *f* in measure 379. The Violoncello part has a dynamic marking of *f* in measure 379. The Cymbal part has a dynamic marking of *mp* in measure 380. The Drum part has a dynamic marking of *mp* in measure 380. A tempo change is indicated by *♩ = ♪* above the Violin I staff in measure 377.

381

Vln.

Evn.

Vla.

Vc.

Cym.

Drm.

384

Vln.

Evn.

Vla.

Vc.

Cym.

Drm.

decresc...

decresc...

387

Vln.

Evn.

Vla.

Vc.

Cym.

Drm.

...niente

390

Vln.

Evn.

Vla.

Vc.

Cym.

Drm.

*pp*

*pp*

*pizz.*

*p*

3

3

3

(hold down both notes and let vibrate as much as possible)

rim trem., with plastic stick of soft mallet

394

Vln. *mf* **L**

Evn. *mf*

Vla. *mf*

Vc. *mp* arco: legato, tasto

Cym.

Drm. *mf* (regular roll, with head of mallet)

398

Vln. gradually become pont....

Evn. gradually become pont....

Vla. gradually become pont....

Vc.

Cym.

Drm.

403

Vln. pont. norm. pont.

Evn. pont. norm. pont.

Vla. pont. norm. pont.

Vc.

Cym.

Drm.

408

Vln.

Evn.

Vla.

Vc.

Cym.

Drm.

413

Vln.

Evn.

Vla.

Vc.

Cym.

Drm.

417

Vln.

Evn.

Vla.

Vc.

Cym.

Drm.

norm.

*pp*

*pp*

*pp*

pizz. (l.v.)

3

3

*decresc.*



enter very gently, very smooth, gradually become fuller

421

Vln.

Evn.

Vla.

Vc.

Cym.

Drm.

*pp*

*mf*

*mf*

3

3

3

3

..niente

426

Vln.

Evn.

Vla.

Vc.

Cym.

Drm.

*mp*

hard sticks

3

3

3

3

430

Vln. mp

Vc. mf

Cym.

Drm.

Detailed description: This system of musical notation covers measures 430, 431, and 432. It features five staves: Violin (Vln.), Evn. (English Horn), Vla. (Viola), Vc. (Violoncello), and Cym. (Cymbal). The Vln. staff has a dynamic marking of *mp* and contains chords. The Evn. and Vla. staves have rests. The Vc. staff has a dynamic marking of *mf* and contains a melodic line. The Cym. staff has rests. The Drm. (Drum) staff contains a rhythmic pattern of eighth and sixteenth notes.

433

Vln.

Evn.

Vla.

Vc.

Cym.

Drm.

Detailed description: This system of musical notation covers measures 433, 434, and 435. It features five staves: Violin (Vln.), Evn. (English Horn), Vla. (Viola), Vc. (Violoncello), and Cym. (Cymbal). The Vln. staff contains chords. The Evn. and Vla. staves have rests. The Vc. staff contains a melodic line with a dynamic marking of *mf*. The Cym. staff has rests. The Drm. (Drum) staff contains a rhythmic pattern of eighth and sixteenth notes.

436

Vln. *mf* semi-pont; grungy

Evn. *mf* semi-pont; grungy

Vla. *mf* semi-pont; grungy

Vc.

Cym.

Drm.

439

Vln.

Evn.

Vla.

Vc.

Cym.

Drm.

441

Vln.

Evn.

Vla.

Vc.

Cym.

Drm.

443

Vln.

Evn.

Vla.

Vc.

Cym.

Drm.

*f*

arco: semi-pont, grungy

*f*

l.v.

smooth

446

Vln. Evn. Vla. Vc. Cym. Drm.

l.v.

Detailed description: This system of musical notation covers measures 446, 447, and 448. It features five staves: Violin (Vln.), Viola (Vla.), Violoncello (Vc.), Cymbal (Cym.), and Drums (Drm.). The Violin staff contains block chords in treble clef. The Viola staff contains single notes in alto clef. The Violoncello staff contains a rhythmic pattern of eighth and sixteenth notes in bass clef. The Cymbal staff shows a single cymbal hit in measure 448, marked 'l.v.'. The Drums staff shows a complex rhythmic pattern with various note values and rests.

449

Vln. Evn. Vla. Vc. Cym. Drm.

Detailed description: This system of musical notation covers measures 449, 450, and 451. It features the same five staves as the previous system. The Violin staff contains block chords in treble clef. The Viola staff contains single notes in alto clef. The Violoncello staff continues with a rhythmic pattern of eighth and sixteenth notes in bass clef. The Cymbal staff shows a single cymbal hit in measure 449. The Drums staff shows a complex rhythmic pattern with various note values and rests.

452

Vln.

Evn.

Vla.

Vc.

Cym.

Drm.

This musical system covers measures 452 to 454. The Violin (Vln.) part starts with a treble clef and a key signature of one sharp (F#). It features a melodic line with a fermata over the final measure. The Viola (Vla.) part is in bass clef with a key signature of one flat (Bb) and plays a simple harmonic accompaniment. The Violoncello (Vc.) part is in bass clef with a key signature of one flat (Bb) and plays a more active, rhythmic line. The Cymbal (Cym.) part is indicated by a double bar line with two vertical strokes, signifying a cymbal crash. The Drum (Drm.) part is in bass clef with a key signature of one flat (Bb) and plays a complex, syncopated rhythmic pattern.

455

Vln.

Evn.

Vla.

Vc.

Cym.

Drm.

This musical system covers measures 455 to 457. The Violin (Vln.) part continues with the same melodic line as in the previous system, ending with a fermata. The Viola (Vla.) part remains in bass clef with a key signature of one flat (Bb), providing harmonic support. The Violoncello (Vc.) part is in bass clef with a key signature of one flat (Bb) and continues its rhythmic accompaniment. The Cymbal (Cym.) part is again indicated by a double bar line with two vertical strokes. The Drum (Drm.) part is in bass clef with a key signature of one flat (Bb) and maintains its complex rhythmic pattern.

458

Vln. Evn. Vla. Vc. Cym. Drm.

*decresc.*

*tr*

461

Vln. Evn. Vla. Vc. Cym. Drm.

*pp*

barely brush the D-string

smooth, unaccented

*p*

8vb low D on open string, barely brushed

yarn

466

Vln.

Evn.

Vla.

Vc.

Cym.

Drm.

**N** rit.

471

Vln.

Evn.

Vla.

Vc.

Cym.

Drm.



♩ = 70

475

Vln.

Evn.

Vla.

Vc.

Cym.

Drm.

**O** A tempo

rit.

480

Vln.

Evn.

Vla.

Vc.

Cym.

Drm.

485

Vln. *ppp*

Evn.

Vla.

Vc.

Cym.

Drm.

490

$\text{♩} = 52$

**P**  $\text{♩} = 104$   
*legato; full*  
*(add C very gently)*

Vln. *mp*

Evn. *mp*

Vla. *mp* pizz.

Vc. *mp* (let vibrate as much as possible)

Cym.

Drm. brushes, or hands *p* slight sweeps, with some articulation

496

Vln.

Evn.

Vla.

Vc.

Cym.

Drm.

501

Vln.

Evn.

Vla.

Vc.

Cym.

Drm.

508

Vln.

Evn.

Vla.

Vc.

Cym.

Drm.

514

Vln.

Evn.

Vla.

Vc.

Cym.

Drm.

Q

521

Vln. Evn. Vla. Vc. Cym. Drm.

Detailed description: This system contains measures 521 through 525. The music is in 4/4 time. A box containing the letter 'Q' is positioned above the first measure (521). The Violin (Vln.) part features a melodic line with a long note in measure 521 and a series of chords and eighth notes in the following measures. The Viola (Vla.) part provides harmonic support with sustained notes and moving lines. The Violoncello (Vc.) part has a rhythmic pattern of eighth and quarter notes. The Cymbal (Cym.) part is marked with a double bar line, indicating it is silent. The Drum (Drm.) part plays a consistent rhythmic pattern of eighth and quarter notes.

526

Vln. Evn. Vla. Vc. Cym. Drm.

Detailed description: This system contains measures 526 through 530. The music changes to 3/4 time. The Violin (Vln.) part continues with a melodic line, featuring a prominent note in measure 526 and sustained chords. The Viola (Vla.) part has a similar melodic contour. The Violoncello (Vc.) part maintains a rhythmic accompaniment. The Cymbal (Cym.) part remains silent. The Drum (Drm.) part continues with a rhythmic pattern of eighth and quarter notes.

532

Vln.

Evn.

Vla.

Vc.

Cym.

Drm.

539

Vln.

Evn.

Vla.

Vc.

Cym.

Drm.

546

Vln.

Evn.

Vla.

Vc.

Cym.

Drm.

552

Vln.

Evn.

Vla.

Vc.

Cym.

Drm.

558 **R**

Vln. 

Evn. 

Vla. 

Vc. 

Cym. 

Drm. 

564

Vln. 

Evn. 

Vla. 

Vc. 

Cym. 

Drm. 



569

Vln. Evn. Vla. Vc. Cym. Drm.

Detailed description: This system contains measures 569 through 575. The Vln. part features a melodic line with various intervals and slurs. The Evn. part has a similar melodic line with some grace notes. The Vla. part provides harmonic support with sustained notes and slurs. The Vc. part has a rhythmic accompaniment with many rests. The Cym. part is mostly silent with occasional accents. The Drm. part has a rhythmic pattern with eighth and sixteenth notes.

576

Vln. Evn. Vla. Vc. Cym. Drm.

Detailed description: This system contains measures 576 through 582. The Vln. part has a melodic line with a key signature change to one sharp (F#) and a time signature change to 3/4. The Evn. part has a melodic line with a time signature change to 4/4 in measure 577 and back to 3/4 in measure 578. The Vla. part has a melodic line with a time signature change to 3/4 in measure 578. The Vc. part has a rhythmic accompaniment with a time signature change to 3/4 in measure 578. The Cym. part has a rhythmic pattern with a time signature change to 4/4 in measure 577 and back to 3/4 in measure 578. The Drm. part has a rhythmic pattern with a time signature change to 4/4 in measure 577 and back to 3/4 in measure 578.

582

Vln.

Evn.

Vla.

Vc.

Cym.

Drm.

587

Vln.

Evn.

Vla.

Vc.

Cym.

Drm.