

Twenty Twenty

Anders Lind 2017

Twenty Twenty

MUSIC FOR CHAMBER ENSEMBLE
AND ORCHESTRA 2020 (MOBILE PHONE ORCHESTRA)

CHAMBER ENSEMBLE:

FLUTE
CLARINET IN B $\flat$

PERCUSSION

- CYMBAL 1. (2 stacked cymbals)
- CYMBAL 2.
- RIDE CYMBAL
- CROTALES (C)
- 2 COWBELLS (low tuned)
- 2 SPRINGS (large truck springs)
- VIBRAPHONE

PIANO

VIOLIN
VIOLA
VIOLONCELLO

ORCHESTRA 2020:

20-200 PEOPLE REGARDLESS THEIR MUSICAL
BACKGROUND WITH MOBILE PHONES

TECHNICAL REQUIREMENTS: (FROM CONCERT HALL)

- 2-4 TV MONITORS (ON STAGE)
- WIFI-CONNECTION

DURATION: 10:00

SCORE IN C

Twenty Twenty

PERFORMANCE NOTES:

The Orchestra 2020 should for best performance consist of 20-200 people, divided in six individual parts. No musical background is needed for the performers, but they all need a mobile phone. They are performing with their mobile phones and a specially designed webapplication, which is found at www.orchestra2020.com. (see figure 1.) The Orchestra 2020 is conducted by an animated notation system, where simple animated graphics are instructing how to perform during the performance. The performance instructions with the animated notation are shown on 1-2 TV-monitors, which should be placed visible for the performers on stage.

60 Minutes of rehearsal with Orchestra 2020 is needed for the performance.



FIGURE 1. The Orchestra 2020 webapplication.

The Chamber Ensemble are conducted by an electronic conductor (see figure 2.), which should be displayed on 1-2 TV-monitor placed so everybody could see it (preferably at the conductor stand). The visual output of the electronic conductor is counting the bar numbers and displaying the current tempo with animated pulsating graphics.



FIGURE 2. Electronic Conductor in rehearsal with musicians from the Symphony Orchestra of Norrlandsoperan, Sweden.

Twenty Twenty

Commisioned by Norrbotten NEO

Anders Lind 2017
www.soundslikelind.se
lind(a)soundslikelind.se

Orchestra 2020
(Mobile Phone Orchestra)

Tempo: ♩=120

Section: A

Measure Numbers: 2, 3, 4, 5, 6, 7, 8, 9

High density C major granular texture

Flute: Gently, *p*

Clarinet in B $\flat$: Gently, *p*

Percussion: Crotales, *p*

Piano: Gently, *p*

Violin:

Viola:

Violoncello:

B

10111213141516171819202122232425

O2020

Fl.

Cl.

Perc.

Pno.

262728293031323334353637383940

O2020

Fl.

Cl.

Perc.

Pno.

High density drum machine granular texture

41 42 43 44 45 46 47 48 49

O2020

Vln. *Jazzy and Aggressive pizz* *ff*

Vla. *Jazzy and Aggressive pizz* *ff*

Vc. *Jazzy and Aggressive pizz* *ff*



50 51 52 53 54 55 56 57

O2020

Vln.

Vla.

Vc.

C

58596061626364656667686970

High density C major granular texture

O2020

Fl.

Gently

p

Cl.

Gently

p

Perc.

Pno.

p

Gently

Vln.

3

p

Vla.

5

3

p

Vc.

3

3

p

D

71 72 73 74 75 76 77 78 79 80 81 82 83 84

O2020

Fl.

Cl.

Perc.

Pno.

85 86 87 88 89 90 91 92 93 94 95 96 97

O2020

Fl.

Cl.

Perc.

Pno.

98 99 100 101 102 103 104 2 Bars countdown! 105 106 107 108 109 110 111 112

O2020

Fl.

Cl.

Perc.

Pno.

p

Strict but groovy

113 114 115 116 117 118 119 120 121 122 123 124

O2020

Fl.

Cl.

Perc.

Pno.

Strict but groovy

p

2 Cowbells +
2 Springs

Cowb. 1.
Cowb. 2.
Spring 1.
Spring 2.

3/4 2/4 3/4 2/4 3/4 2/4 3/4 2/4 3/4 2/4 3/4

125 126 127 128 129 130 131 132 133 134 135

O2020

Fl.

Cl.

Perc.

Pno.

Vln.

F

Strict but groovy

arco

Strict but groovy

p

Detailed description of the musical score: The score is for measures 125 to 135. The O2020 part is a simple line with vertical stems and flags indicating the time signature changes. The Flute (Fl.) part has a melodic line with slurs and ties. The Clarinet (Cl.) part has a more complex line with many slurs and ties. The Percussion (Perc.) part has a simple line with slurs and ties. The Piano (Pno.) part has a complex line with many slurs and ties, and a dynamic marking 'p' at measure 129. The Violin (Vln.) part has a simple line with slurs and ties, and a dynamic marking 'p' at measure 129. The performance instructions 'Strict but groovy' and 'arco' are present for the Pno. and Vln. parts.

136 137 138 139 140 141 142 143 144 145

O2020

Fl.

Cl.

Perc.

2 Cymbals + 1 Ride (let ring)

Pno.

Vln.

Vla.

Vc.

arco
Strict but groovy

p
arco
Strict but groovy

p

G

161 162 163 164 165 166 167 168 169 170 171

O2020

Fl.

Cl.

Perc.

Pno.

Vln.

Vla.

Vc.

This musical score page contains measures 161 through 171. The instruments are O2020, Flute (Fl.), Clarinet (Cl.), Percussion (Perc.), Piano (Pno.), Violin (Vln.), Viola (Vla.), and Violoncello (Vc.). The O2020 part is a single line with a double bar line at measure 168. The Flute and Clarinet parts feature complex passages with triplets and quintuplets, and dynamic markings of *p* and *pp*. The Percussion part includes triplet and quintuplet rhythms, with a *p* dynamic marking. The Piano part has a *mp* marking in measure 164 and a *pp* marking in measure 168. The Violin, Viola, and Violoncello parts also feature complex passages with triplets and quintuplets, and dynamic markings of *p* and *pp*.

186 187 188 189 190 191 192 193 194 195 196 197

O2020

Fl.

Cl.

Perc.

Pno.

Vln.

Vla.

Vc.

Strict

p

p

Damp

p

ppp *pp*

p

198 199 200 201 202 203 204 205 206 207 208 **L**

O2020

Fl.

Cl.

Perc.

Pno.

Jazzy 5

Vln.

Vla.

Vc.

Damp

209 210 211 212 213 214 215 216 217 218 219 220

Jazzy irregular hits

O2020

Fl. *mp* *pp* *ppp* *Jazzy* *ppp*

Cl. *mp* *pp* *ppp* *Jazzy* *ppp*

Perc. *pp*

Pno. *mp* *pp*

Vln. *mp* *pp*

Vla. *mp* *pp*

Vc. *mp* *pp*

221 222 223 224 225 226 227 228 229 230 231 232

O2020

Fl.

Cl.

Perc.

Vc.

Vibraphone

p

pizz.

p

233 234 235 236 237 238 239 240 241 242 243 244 245 246

O2020 Ticking granular texture

Perc.

Vln. pizz. *p*

Vla. pizz. *p*

Vc.

247 248 249 250 251 252 253 254 255 256 257 258 259 260 261 262

O2020

LFO pitch mod.
synth sound

Fl.

Gently

p *ppp* *p* *ppp*

Cl.

Gently

p *ppp* *p* *ppp*

Perc.

Vln.

Vla.

Vc.

Detailed description of the musical score: The score is for measures 247 to 262. Measure 255 is highlighted with a circled 'O'. The O2020 part has a box labeled 'LFO pitch mod. synth sound' in measures 249-252. The Flute and Clarinet parts are marked 'Gently' and have dynamic markings 'p' and 'ppp'. The Percussion part has a complex rhythmic pattern. The Violin, Viola, and Violoncello parts have various musical notations including triplets and accidentals.

263 264 265 266 267 268 269 270 271 272 273 274 275

O2020

Granular texture

Fl.

Cl.

Perc.

Pno.

Vln.

Vla.

Vc.

p

ppp

p

p

p

p

mp

Jazzy

5

3

P

276 277 278 279 280 281 282 283 284 285 286 287

Low density Noise texture

O2020

Fl.

Cl.

Perc.

Pno.

Vln.

Vla.

Vc.

5

3

The musical score is written for measures 276 through 287. The instruments are O2020, Fl., Cl., Perc., Pno., Vln., Vla., and Vc. The O2020 staff is marked with a double bar line and the text 'Low density Noise texture'. The Fl. and Cl. staves show melodic lines with slurs. The Perc. and Pno. staves show complex rhythmic patterns with many beamed notes. The Vln. and Vla. staves show melodic lines with slurs. The Vc. staff has a 5-measure phrase and a 3-measure phrase.

Q

288 289 290 291 292 293 294 295 296 297 298 299 300 301 302 303

O2020

Fl.

Cl.

Perc.

Pno.

Vln.

Vla.

Vc.

5

3

3

5

3

Detailed description: This is a page of a musical score, page 23, marked with a 'Q' in a box. It covers measures 288 to 303. The instruments are O2020, Flute (Fl.), Clarinet (Cl.), Percussion (Perc.), Piano (Pno.), Violin (Vln.), Viola (Vla.), and Violoncello (Vc.). The O2020 staff begins with a double bar line. The Fl. and Cl. staves feature long horizontal lines, likely indicating sustained notes or breath marks. The Perc. and Pno. staves show complex rhythmic patterns with many beamed notes. The Vln. and Vla. staves also have long horizontal lines. The Vc. staff contains a complex rhythmic pattern with fingerings 5, 3, 3, 5, 3 indicated above the notes.

R

304 305 306 307 308 309 310 311

Ticking granular texture

O2020

Perc. *Strict but groovy*

mp

Pno. *mp*

Vln. *mp*

Vla. *mf*

Vc. *mf*

5

3

5

312 313 314 315 316 317 318 319 320 321

O2020

Fl. *mp*

Cl. *mp*

Perc.

Pno. *8va*

Vln.

Vla.

Vc.

The musical score for measures 312-321 is as follows:

- O2020:** Measures 312-313: G4 (half note), A4 (half note). Measures 314-315: G4 (half note), A4 (half note). Measures 316-317: G4 (half note), A4 (half note). Measures 318-319: G4 (half note), A4 (half note). Measures 320-321: G4 (half note), A4 (half note).
- Fl.:** Measures 312-313: G4 (half note), A4 (half note). Measures 314-315: G4 (half note), A4 (half note). Measures 316-317: G4 (half note), A4 (half note). Measures 318-319: G4 (half note), A4 (half note). Measures 320-321: G4 (half note), A4 (half note).
- Cl.:** Measures 312-313: G4 (half note), A4 (half note). Measures 314-315: G4 (half note), A4 (half note). Measures 316-317: G4 (half note), A4 (half note). Measures 318-319: G4 (half note), A4 (half note). Measures 320-321: G4 (half note), A4 (half note).
- Perc.:** Measures 312-313: G#4 (quarter), A#4 (quarter), B4 (quarter), C5 (quarter). Measures 314-315: G#4 (quarter), A#4 (quarter), B4 (quarter), C5 (quarter). Measures 316-317: G#4 (quarter), A#4 (quarter), B4 (quarter), C5 (quarter). Measures 318-319: G#4 (quarter), A#4 (quarter), B4 (quarter), C5 (quarter). Measures 320-321: G#4 (quarter), A#4 (quarter), B4 (quarter), C5 (quarter).
- Pno.:** Measures 312-313: G#4 (quarter), A#4 (quarter), B4 (quarter), C5 (quarter). Measures 314-315: G#4 (quarter), A#4 (quarter), B4 (quarter), C5 (quarter). Measures 316-317: G#4 (quarter), A#4 (quarter), B4 (quarter), C5 (quarter). Measures 318-319: G#4 (quarter), A#4 (quarter), B4 (quarter), C5 (quarter). Measures 320-321: G#4 (quarter), A#4 (quarter), B4 (quarter), C5 (quarter).
- Vln.:** Measures 312-313: G#4 (quarter), A#4 (quarter), B4 (quarter), C5 (quarter). Measures 314-315: G#4 (quarter), A#4 (quarter), B4 (quarter), C5 (quarter). Measures 316-317: G#4 (quarter), A#4 (quarter), B4 (quarter), C5 (quarter). Measures 318-319: G#4 (quarter), A#4 (quarter), B4 (quarter), C5 (quarter). Measures 320-321: G#4 (quarter), A#4 (quarter), B4 (quarter), C5 (quarter).
- Vla.:** Measures 312-313: G#4 (quarter), A#4 (quarter), B4 (quarter), C5 (quarter). Measures 314-315: G#4 (quarter), A#4 (quarter), B4 (quarter), C5 (quarter). Measures 316-317: G#4 (quarter), A#4 (quarter), B4 (quarter), C5 (quarter). Measures 318-319: G#4 (quarter), A#4 (quarter), B4 (quarter), C5 (quarter). Measures 320-321: G#4 (quarter), A#4 (quarter), B4 (quarter), C5 (quarter).
- Vc.:** Measures 312-313: G#4 (quarter), A#4 (quarter), B4 (quarter), C5 (quarter). Measures 314-315: G#4 (quarter), A#4 (quarter), B4 (quarter), C5 (quarter). Measures 316-317: G#4 (quarter), A#4 (quarter), B4 (quarter), C5 (quarter). Measures 318-319: G#4 (quarter), A#4 (quarter), B4 (quarter), C5 (quarter). Measures 320-321: G#4 (quarter), A#4 (quarter), B4 (quarter), C5 (quarter).

322 323 324 325 326 327 328 329 330 331 332 333

T

Ticking granular texture

O2020

Fl. *Strict but groovy* *mf* *Gently* *pp*

Cl. *Strict but groovy* *mf* *Gently* *pp*

Perc. *Strict but groovy* *mf* *pp*

Pno. (8) *mf* *pp*

Vln. *mf*

Vla. *mf*

Vc. *mf* *pp*

334 335 336 337 338 339 340 341 342 343 344 345 346

U

Ticking granular texture

O2020

Fl.

Cl.

Perc.

Pno.

Vln.

Vla.

Vc.

mf

Strict but groovy

[illegible]

[illegible]



364 365 366 367 368 369 370 371 372 373

O2020 High density percussive texture High density percussive texture High density percussive texture

Fl. *fp* *f* *fp* *f*

Cl. *fp* *f* *fp* *f*

Perc.

Pno.

Vln. *Jazzy* *ff* 5 3 5 3 5

Vla. *Jazzy* *ff* 3 5 3 5 3

Vc. *Jazzy* *ff* 3 3 3 3 3

374 375 376 377 378 379 380 381

O2020 **Y** *Mid density...*

*High density
Percussive texture*

Fl. *fp* *f*

Cl. *fp* *f*

Perc. *f*

Pno. *f*

Vln. *f* *Strict but groovy*

Vla. *f* *Strict but groovy*

Vc. *f* *Strict but groovy*

382 383 384 385 386 387 388 389

O2020

Fl.

Cl.

Perc.

Pno.

Vln.

Vla.

Vc.

Z

High density...

f

ff

ff

Jazzy and Aggressive

ff

Jazzy and Aggressive

ff

Jazzy and Aggressive

ff

390 391 392 393 394 395 396 397

O2020

Fl.

Cl.

Perc.

Pno.

mf

Vln.

Vla.

Vc.

398 399 400 401 402 403 404 405

O2020

Fl. *p* *ff* *Expressive*

Cl. *p* *ff* *Expressive*

Perc. *p* *ff* 3

Pno. *p* *ff* 3

Vln. *p* *Expressive arco* *ff*

Vla. *p* *Expressive arco* *ff* 3

Vc. *p* *ff*

Very Aggressive!!!...

406 407 408 409 410 411 412 413

O2020

Fl.

Cl.

Perc.

Pno.

Vln.

Vla.

Vc.

This musical score page contains measures 406 through 413. The instruments are O2020, Flute (Fl.), Clarinet (Cl.), Percussion (Perc.), Piano (Pno.), Violin (Vln.), Viola (Vla.), and Violoncello (Vc.).

- O2020:** A double bar line at the start of measure 406, followed by a continuous line through measure 413.
- Fl. and Cl.:** Both parts play sustained notes with long horizontal lines indicating breath marks across measures 406-409. In measures 410-413, they play more active patterns, including triplets in measure 412.
- Perc.:** Measures 406-407 feature long horizontal lines. From measure 408, it plays a steady eighth-note pattern. Measures 410-413 show a more complex rhythmic pattern with triplets.
- Pno.:** The right hand plays a continuous eighth-note pattern in measures 406-409, marked with 'Ped.' (pedal). The left hand plays a series of chords. In measures 410-413, the right hand plays chords and triplets, while the left hand continues with chords.
- Vln. and Vla.:** Both parts play sustained notes with long horizontal lines indicating breath marks across measures 406-409. In measures 410-413, they play more active patterns, including triplets in measure 412.
- Vc.:** The cello part plays a series of chords throughout the measures, with some changes in the final measures.

414 415 416 417 418 419 420 421

O2020

Fl.

Cl.

Perc.

Pno.

Vln.

Vla.

Vc.

3

422 423 424 425 426 427 428 429 430 431 432 433

O2020

Fl.

Cl.

Perc.

Pno.

Vln.

Vla.

Vc.

ffp *ff*

ffp *ff*

Ped.

This musical score page covers measures 422 to 433. The instruments are O2020, Flute (Fl.), Clarinet (Cl.), Percussion (Perc.), Piano (Pno.), Violin (Vln.), Viola (Vla.), and Violoncello (Vc.). The O2020 part is a continuous line of sixteenth notes. The Flute and Clarinet parts feature long, sweeping melodic lines with many slurs. The Percussion part has a complex, rhythmic pattern with many slurs. The Piano part includes a series of sixteenth-note runs in the right hand and a bass line with many slurs. The Violin and Viola parts have long, sweeping melodic lines with many slurs. The Violoncello part has a bass line with many slurs. The score includes dynamic markings such as *ffp* and *ff* for the Flute and Clarinet parts, and *Ped.* for the Piano part.

O2020

DD

451 452 453 454 455 456 457 458 459 460 461 462 463

O2020

Fl.

Cl.

Perc.

Pno.

Vc.

sul tasto

ppp

464 465 466 467 468 469 470 471 472 473 474 475

O2020

Fl.

Cl.

Perc.

Pno.

Vla.

Vc.

sul tasto

ppp

Detailed description: This is a musical score for measures 464 to 475. The score includes parts for O2020, Flute (Fl.), Clarinet (Cl.), Percussion (Perc.), Piano (Pno.), Viola (Vla.), and Violoncello (Vc.). The O2020 part is a single line with a double bar line at the beginning. The Flute and Clarinet parts are in treble clef and feature triplet markings. The Percussion part is in treble clef and has a long note at the end. The Piano part is in grand staff (treble and bass clef) and features triplet markings. The Viola part is in alto clef and has a long note at the end. The Violoncello part is in bass clef and has a long note at the end. The score includes dynamic markings such as *ppp* and *sul tasto*.

476 477 478 479 480 481 482 483 484 485 486 487 488

O2020

Fl.

Cl.

Perc.

Pno.

Vln.

Vla.

Vc.

sul tasto

ppp

The musical score for measures 476-488 is presented in a standard orchestral layout. The O2020 part is a sustained chord. The Flute and Clarinet parts play a melodic line with slurs and ties. The Percussion part has a sustained note. The Piano part has a complex texture with many slurs and ties. The Violin part starts with a rest and then plays a melodic line. The Viola and Violoncello parts play a sustained chord.

489 490 491 492 493 494 495 496 497 498 499 500 501 502

O2020

Fl.

Cl.

Pno.

Ped.

Vln.

Vla.

Vc.

This musical score page covers measures 489 to 502. The instruments are O2020, Flute (Fl.), Clarinet (Cl.), Piano (Pno.), Violin (Vln.), Viola (Vla.), and Violoncello (Vc.). The O2020 part begins with a double bar line at measure 489. The Flute and Clarinet parts have melodic lines with slurs and ties. The Piano part features a complex texture with slurs and ties, including a 'Ped.' (pedal) marking in measure 500. The Violin, Viola, and Violoncello parts provide harmonic support with sustained notes and slurs.

O2020

503504505506507508509510511512513514515516517

Fl.

Cl.

Pno.

Vln.

Vla.

Vc.