

Hybrid 1

cello, electronics and visuals

Knut Vaage

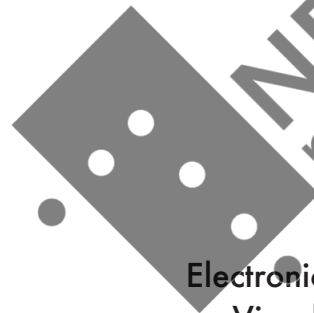
2019

(version 14.02.2020)

to
John Ehde

Electronics: Thorolf Thuestad

Visuals: Birk Nygaard



NB
noter

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ABOUT THE SCORE:

Accidentals apply through the whole bar within the same octave

Trills are chromatic if not marked. Tremolos are unmeasured if not marked

The score gives the performers freedom to improvise, and adjust the length of each Senza misura bar

The Hybrid between acoustic and electronic sound and the visual part must be taken care of by intense listening and equality between the performers of the cello, the electronics, and the visual part. The presets in the electronic part refers to a workshop on relations between cello and electronics. For future performances, the sound designer is welcome to make own versions inspired by the short descriptions on each part.

ACKNOWLEDGMENT:

Hybrid 1 is included in our research project at the Grieg Academy; *(un)settling Sites and Styles*. It has been partly developed with John Ehde (my partner in this project) and sound designer/programmer Thorolf Thuestad. Special effects are developed and combined in new ways as a part of the research project on workshops during 2018. The piece include quotes from *Svev*, premiered at the Borealis festival in Bergen 2018 by Valen Trio. *Svev* took material from *Etudes* made in collaboration between John and me, and from some of my other pieces.

Many thanks to Avgarde and MEP minnefond for supporting and making possible the world premiere at Cornerteateret, april 2019.

PERFORMANCE:

It is possible to perform the piece without the visuals, with cello and sound treatments only. The visual can be worked out for each performance, but should follow the electronic part, and fade on the acoustic parts; number 3, 9, 11 and 15.

For the sound part, a full PA with surround is needed. The cello should be microphoned by a DPA, and a contact mic placed by the neck, used for number 7 and faded after crossfade on number 8.

DURATION: c. 25 min.

"Hybrid 1" oppstår som eit utforskningsrom på vegen mot ei konsertforestilling tanga av BIT20 Ensemble kalla "Hybrid spetakkel" for ensemble med cello-solo, elektronikk og visuell design. I begge verka blir tilhøvet mellom menneske og teknologi belyst. Prosjektet vil gå parallelt med, og vera ein del av PKU-forskningsprosjektet «(Un-) settling Styles and Sites på Griegakademiet, og enda i ei avsluttande multimedial konsertforestilling med premiere vår 2020. Men "Hybrid 1" vil stå fram som eit eige verk, framført på Avgarde på Cornerteateret 13. april 2019.

Ideen oppsto ut ifrå ein refleksjon over at me i vår tid kan oppleve ein ny slags futurisme gjennom all vår entusiasme for ny teknologi.

Menneska i vår tid kan visa stor entusiasme for teknologiutviklinga, men kan også oppleve ei redsle for å bli overflødiggjort av teknologien.

I "Hybrid 1" vil me utforska hybrididen mellom den akustiske lyden frå celloen og elektronikken. Instrumentet sine små, subtile lydar som normalt er lydsvake, vil bli forsterka og kraftig elektronisk bearbeida. Gjennom prosessen blir samanhengen mellom dei ulike verkemidla undersøkt.

Samansmelting av elektronikk, akustisk lyd og visuelle teknikkar, vil resultera i ein kreativ loop - eit hybrid multimedialt landskap.

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Hybrid 1

for solo cello, electronics and visuals

Knut Vaage

Dialogue with robot

c. 15 sec.

c. 60 sec.

1

c.l. with one hair free amount of rep. pattern, slow gliss.

s.p. molto

x = behind bridge

transform into next section

impro in dialog w robot-effect
jetè is a possible variation

pp

small rests will create more dialogue w. Robot effect

Robot glitch-effect, preset 3
add gradually from zero effect

full effect

c. 1 min. 45 sec.

2

s.t. punta del arco

3

4

5

6

7

8 c. 15 sec.

3

TACET

ff

Cello only (sharp and edgy)
Misurata (♩ = c. 100)

(number 3, durata ca. 15 sec.)
no electronics
reverberation naturally fade
AMP OFF

ppp

CUE to electronics

(IV continue, allow distortion)

sfz

CUE to Cello effect solo

Robot glitch, preset 5 (w. pitching reverb)

Vlc.

El.

Dialogue with saw tooth follower

c. 1 min. 30 sec.

c. 3 sec.

4 Senza misura

Vlc. *ppp* impro, pitch ad lib.
 emphasis some pitches to trigger electronic follower synth on random melody when follower is triggered, stop and listen, then continue same process

El. Dirty Mickey Mousing w pitch shift and follower (sawtooth wave), preset 11
 add gradually ----- full effect
 AMP ON

variate when repeated
 intensivate gradually

TACET
 effect, short fade

Dropping bow variations

variate bowing, muting, pitch, but keep dropping bow

c. 2 min.

c. 45 sec.

Wood sounds

c. 45 sec.

5 * col legno, jeté ad lib.
 s.t. → sul pont.
 impro on given material, pitch ad lib

Vlc. *mf*

El. Sparkling w. pitch delay, preset 7
 add gradually (surround) ----- full effect
 CUE to Cello

impro on given material, pitch ad lib
 put down bow
 TACET

effect solo

trill w. fingers on body of instr.
 CUE to electronics
 sudden shift
 panning multifilter, preset 15 (surround)

Tiny sounds

c. 30 sec.

c. 30 sec.

Moaning moment

c. 45 sec.

7 Improvise: strokes on wood (vivid, free rhythms, no sync.)
 voice
 small grumpy sounds

Vlc. behind neck (pizz. ad lib on all strings) w. nails or plectrum
 same as above but with a super ball use handle for pizz and turn for strokes ad lib

El. contact mic (or close mic behind neck)
 crossfade effects
 Space-grain (close mic.), preset 13 (surround)

change into dragging super ball on body of instrument.
 Crossfade pizz behind neck
 Cave reverb, preset 22

In the Cave

9 Calmly (♩ = c.60)

grab bow ord.

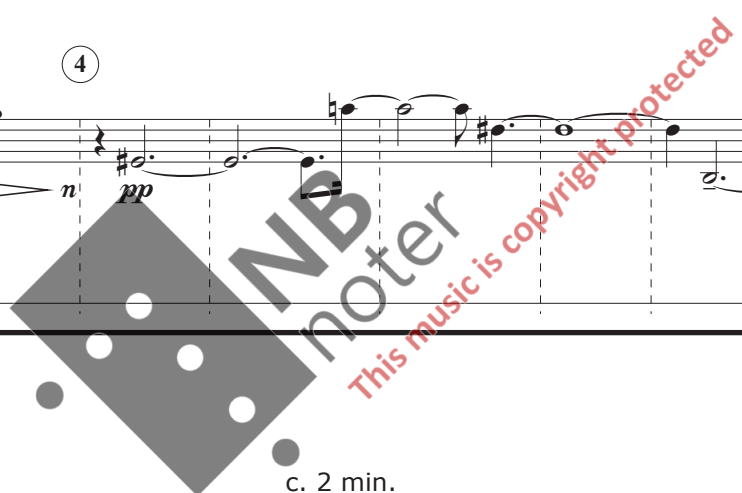
pp dolce e legato molto

1 2 3

(Cave reverb continue)
(number 9, durata ca. 1:45)

4 5

(number 9, durata ca. 1:45)
transform gradually into air sound (extreme flautando)



Crush and fuzz

c. 2 min.

10

crush sul t. 2 impro, use strings I - IV ad lib. as before, but transform by grad. including normal crush 3 crush, slow bow, over-pressure (search for 8va bassa) 4 sul p. sul t.

(p) *espr. p.a.p. ma non troppo* *(mp)* *(p)* *n*

Freq. mod. ringmodulator w. fuzz, preset 14 manipulate effects, duo with cello. pitch ringmodulator ad lib.

Cello only, 2
Misurata (♩ = c. 100)
 ord.

11 *ff secco*

EL. (number 11, durata ca. 7 sec.)
 no electronics
 reverberation naturally fade
 AMP OFF

Dialogue with robot, 2
 c. 15 sec.

12 *pp*
 c.l. with one hair

Robot glitch-effect, preset 3
 add gradually from zero effect ----- full effect
 AMP ON

s.p. molto

c. 30 sec.

2 impro in dialog w robot-effect

small rests will create more dialogue w. Robot effect

c. 30 sec.

13 behind bridge (b.b.)
 bow w. windings by frog

p
 CUE to electronics
 sudden shift

Wobbel, preset 12

Measured tremolo
 c. 2 min. 30 sec

14 brush strings lengthwise
 firmly up an down (M.M. c. 132)

(add strings)
 CUE to electronics
 sudden shift

ff PEAK

bow on body
 firmly up/down

c. 30 sec.

Dancing grasshoppers, preset 16
 generating rhythms with resistance to cello-rhythm (surround)

Cello only, 3
Misurata (♩ = c. 100)
 ord.

15 *ff secco*

EL. no electronics
 reverberation naturally fade
 AMP OFF

Pling Plong impro (optional pizz, c.l., spicc)

16 Senza misura

EL. Create dry effects, samplings etc.
 AMP ON

c. 60 sec.

c. 30 sec.

TACET

effect solo

17 Circling bow with overtones c. 45 sec.

Vlc. muted IV
circular movements sul p. molto <--> sul t. molto transform into

El. Spectrum enhancing delay, preset 17 full effect

crossfade effects

c. 20 sec.

18 Overtone variations c. 2 min.

Vlc. mute string, hoarse overtone ad lib.
free bowing, very light pressure
transform into

as above but L.H. rapidly ad lib.
searching for overtones (sul p. ad lib.)

as above but change strings ad lib.

El. crossfade effects

Under water multieffect, preset 8

19 c. 45 sec.

Vlc. III II
improvise, slow change between random natural harmonics (ord.) slow gliss.

El. crossfade effects

Spectrum enhancing delay, preset 17