

Alexander Schubert

Sensate Focus

Written for +

2014

Explanations

Setup

Each musician is standing in front of a spot light, which is controlled by the computer. The light is switched on and off rapidly during the piece. If the spot is off the room should be pitch black and the player not visible.

The sound of each instrument is processed from time to time - depending of the section in the piece.

Beside musical playing the musicians need to perform gestures which are notated in the score as well.

The piece is performed with a click-track.

The musicians should all play standing.

Concept

There are two main ideas behind this piece.

First the lighting of the players in sync and partly out of sync is meant to shift the focus between visual and sonic aspects of a performance.

Second, the human-machine-relation is explored. The partly very mechanic playing styles and repetition lets the musicians appear in a mechanic matter whilst outbursts and free playing are partly hidden in the dark.

Explanation of the Notation

The normal musical playing is notated in standard form.

Empty measures are displayed with 1-line-systems.

Gestures are displayed in 1-line-systems as well with icons indicating the movement to be performed. See table below for description of the movements.

None of the gestures is supposed to create a sound.

Start and finish each movement with an accent.

All executed movements in the piece should be machine-like. Consider yourself a robot, a puppet or similar. This counts 100% for the artificial movements. But also the regular playing should follow this idea as much as possible. It is also good to exaggerate the playing gestures.

The notation of the gestures is not very exact, so there's a bit of room for personal interpretation. That is anticipated, but the goal should be, that the movements are reproducible and don't change every time.

Each time one of these icons occurs it's supposed to be a different gesture. Not every time the same!

○ Slow movement in the air (cont.)

⚡ Twitching, tremolo movement (fast, repetitive)

- * Freeze - do not move. Take an artificial pose.
If you played before this more or less means freezing where you are at that point.
If not, you can chose a pose, it should look like a taken pose, not just standing or similar, but not too theatrical too,
like a strange frozen playing pose perhaps.
- Stop movement, with an accent.
- ⌚ Movement in the air without instrument (staccato)
The movement should follow the sortof-machine-like style of the piece, but aside from that can be chosen freely, and can be different each time, they should also mimic the sound in some way, basically be inspired by the electronics at that part.
- P Playing gesture above the instrument.

Tempo

The piece is performed with a click-track. There are very extreme accelerandi and ritardandi in the tempo - use the click track when practicing the piece to get a feeling for it.

The accelerando is always continuous and stops at the next tempo indication.

There is one passage with an ultimate accelerando going from 65 BPM up to 999 BPM. This is of course not playable. The idea is to keep up with the acceleration for as long as possible and then continue at that highest possible tempo.

At the end either continue like this or slowly stop playing and just continue to move. Which option it will be will be settled in the rehearsals of the piece.

General

Before performing the piece it might be a good idea to warm up a little (like before doing sports) as some of the repetitive movements can be a bit rough otherwise.

The lighting on stage varies from very dark to pretty bright, which may be confusing for the performer.

It is difficult to read the score like this. I suggest to put the score on an iPad, laptop or similar. Like this it will be easier to read in the dark and it won't be necessary to use stand lights for the score.

All Instruments:

When a percussive sound is chosen for then it should stay exactly the same for the section and not change over time, like a sample that is repeated.

All glissandi should be carried out over the whole length of the notes.

The black blocks (■) at the end of the piece stand for as wild, loud, chaotic and hardcore playing as possible, not rhythmically.

Black square note heads stand for very loud, hardcore sounds, but with notated rhythm.

Square note heads (and a black arrow ↓ over the notes) mean the same thing, and stand for very loud, hardcore sounds, but with notated rhythm. The black arrow just stresses the black noteheads. Keep the same note / phrase / instrument for one sequence and only change after pause.

E-Guitar

Effect pedals for a strong distorted sound, volume pedal, bottleneck.

Bass-Clarinet

Slaps are notated with a “x”-note-head and should be as loud and percussive as possible. Air stream without pitch is notated as an empty rectangle.

Violin

The violin needs a hard plectrum and a sponge (the yellow ones with one rough side).

- ↗ Whip Movement in the air
- ↖ Violin Plectrum, low (art 71)
- ↑ High tick sound, col legno bat.
- ➡ Scratch sound
- Wiping sound
- ➡ Scratch sound with frog and pressure
- ▼ Violin Plectrum, percussive sound
- ▽ Violin Plectrum, damped with hand (art 68)
- P Playing gesture above the instrument.

All Plectrum parts can be done with bartok pizz as well.

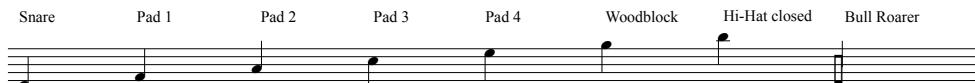
Percussion

Instruments needed:

- Snare
- Hi-hat
- Woodblock
- Bull roarer
- Midi Drum Pad with at least 4 drum zones



Legend:



Material

Together with the score several files are handed out.

For the performance of the piece a Ableton Live Set is included, which includes all samples, processes and Max4Live Patches.

For the musicians several audio files are included:

- A midi demo version of the piece giving an idea how the piece will sound
- A click track for the whole piece
- A stereo file with the click on one stereo channel and the midi demo on the other stereo channel
- The midi version of each instrument solo (helpful as it includes the sounds the composer tried out and which can be used as a reference). Both with and without processing

If

If there should be certain things unclear with regard to the descriptions, notation or anything else - please do not hesitate to contact me in advance via as@alexander-schubert.net !

TECH RIDER

ALEXANDER SCHUBERT - SENSAE FOCUS

Version: February 7, 2016 10:45 AM

AUDIO

Instruments

1. Electric Guitar with effects (minimum: distortion, gate, octaver - plus other suitable ones)
2. Violin
3. Bass-Clarinet
4. Percussion
 - a. Midi Drum Pad
 - pad with a minimum of 4 trigger zones. preferably big so they are easy to hit.
 - b. Percussion-Instruments
 - woodblock
 - snare
 - hi-hat
 - bull roarer

Microphones

1. Electric Guitar: Direct out of amp or close monitoring of amp
2. Violin: Very close monitoring: DPA (e.g. d:screet™ 4061) or contact microphone.
3. Bass-Clarinet : Very close monitoring: preferably DPA (e.g. d:vote™ 4099S Clip Microphone)
4. Percussion: One condenser microphone.

Routing

The microphones go into the mixing desk and are used for amplification.

They are send as direct outs / pre-fader aux sends to the computer for processing

The computer sends a stereo signal for the tape electronics, a stereo pair for the processed instruments and a mono channel for the click track.

PA & Monitoring

A solid, loud PA is required for the piece with a strong subwoofer (a lot of low end frequencies in the electronics).

Provide a pa suitable for a techno club and not for subtle amplification of chamber music!!

Click

Click is send from laptop. Should be send to headphone amp and from there to the musicians.

A wireless click is useful, as the musicians come on stage in the dark and don't have to much time to prepare - but should be possible with wire-click as well.

LIGHT / STAGING

Room / Stage / Staging

The room should be pitch black - like a theatre. No room lights whatsoever. The stage should also be black. The piece uses its own lightning, which is turned off at the beginning or the piece. At this point it should be so dark that it is impossible to tell if a performer is on stage or not.

The players should be positioned parallel to the stage facing the audience. There should be sufficient space between the players, as each player has his own spot light and each spot should only light one player.
If it's not possible to stage the players like this it might be an alternative to spread the players in the room.

Interactive Lights

The four spot lights are controlled from the computer. Ableton Live sends out midi data. The midi data is received by MAX/MSP and sends this data via USB to the USB-DMX-Interface. This controls the lights via DMX. It is basically plug and play and doesn't need much configuration!

The lights are standard LED stage lights (either RGB but preferably warm theatre light). The spot lights should have a rather narrow radius. The exact type of light and the exact positioning is not so important - the only important requirement is that each light shines on exactly one player and not more and does not light the complete stage. Ideally the lights should be hanged on a traverse above each player.

Music Stands

The light situation on stage is problematic for reading the sheet music. Using stand lights might undermine the effect of the pitch black room. It's probably the best to use a laptop or iPad or similar for the sheet music. Switch devices to inverted colors so the music appears white with black background to minimize the ambient light.

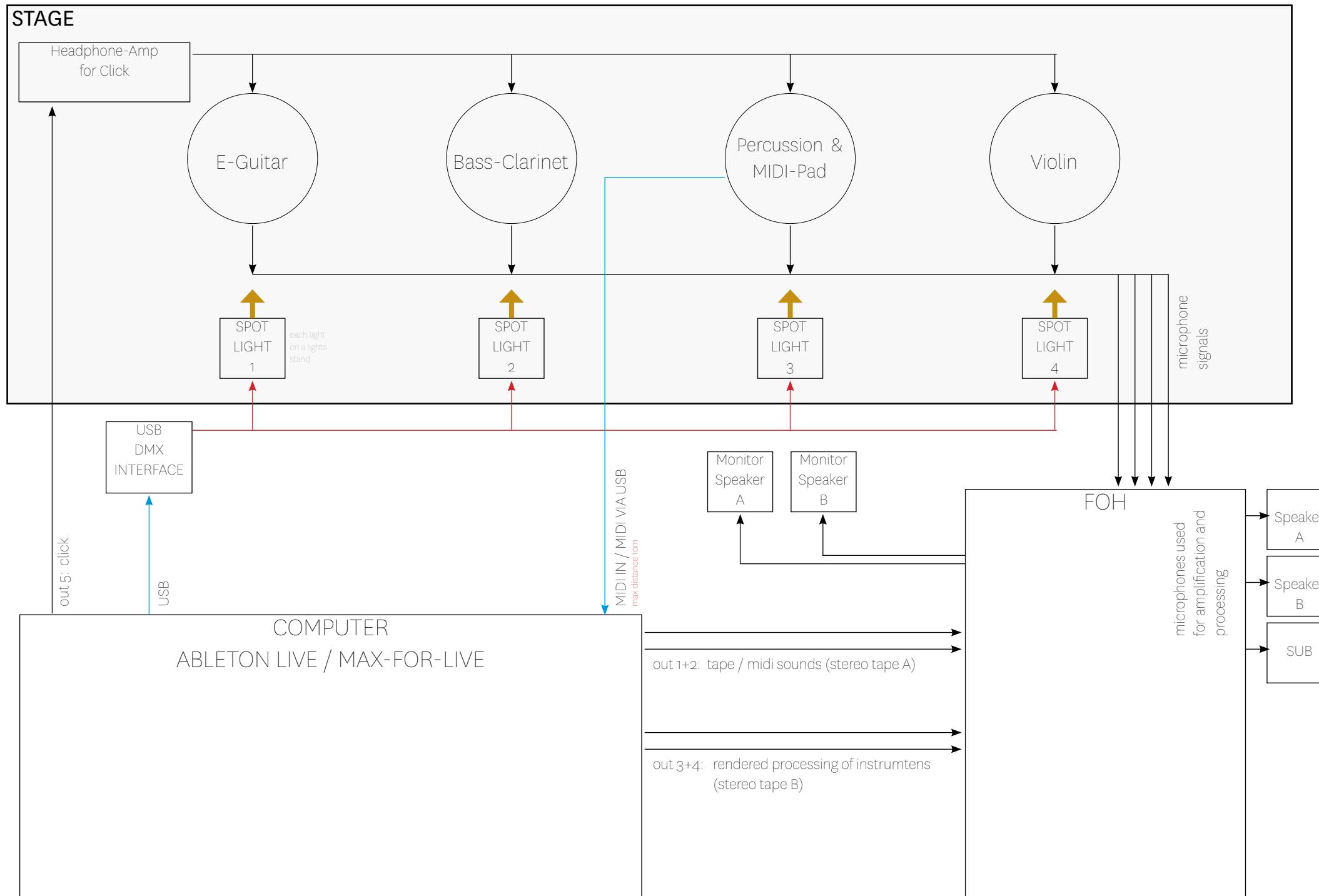
COMPUTER PROGRAM

The performance project for the piece is an Ableton live set (version 9, with Max4Live). It includes all the effects etc.

REQUIRED MATERIAL

- Spot lights
- PA
- Headphone amp & headphone
- Mixing desk
- Recent apple computer + sound card (4 inputs, 5 outputs)
- Software: Ableton Live (incl. Max4Live)
- USB-DMX-Interface*
- Midi Drum Pad*

*can be provided by the composer



LIGHT SETUP

ALEXANDER SCHUBERT - SENSAE FOCUS

Spot Lights

For the piece you need 4 LEDs:

- it has to be LEDs (as they turn on and off very quickly)
- They need to have 4 RGBW
- They need an DMX-adjustable focus
- at least 100W with 4-in-1-LEDs per Spot.

For example take **“Martin RUSH PAR 2 RGBW Zoom”** or **“glp impression X4”**

For any other models please contact the composer and propose specific model.

The LEDs need to be hanged over the musicians.

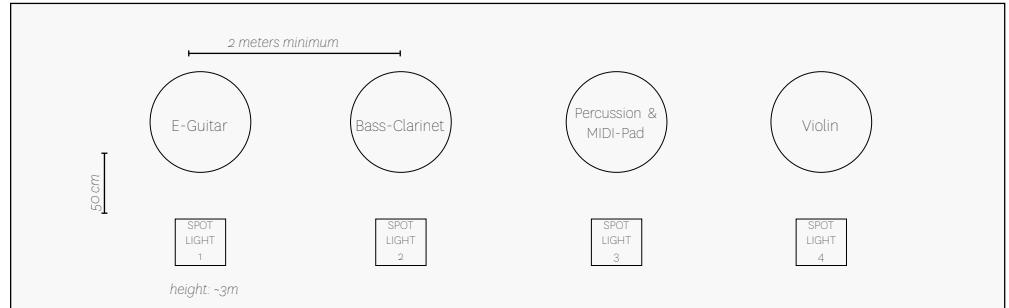
Not too far away so that the spots don't overlap.

The result should look roughly like this:



The DMX signal comes directly from the computer.

It should be a separate line from the house system. So the cable goes from the DMX interface (brought by ensemble/composer) to the first spot on stage, and the next ones are daisy-chained in a row.



Explanation of the Computer Programs

General

The piece runs in Ableton Live.

You need the current version of Live for it, and also MAX4Live.

Live runs the program and sends Midi to MAX/MSP. MAX converts the MIDI to DMX signals which then control the light.

Ableton Live

In live you have a project with the following tracks:

LIGHT

This is a MIDI track. It has notes in four pitches, one for each spot light. You can see a midi note when you are supposed to see a light on stage. Then there's a automation in the track as well which controls the master brightness for all spots.

The MIDI signal is sent to a Midi port - you can choose. I suggest to use a MIDI bus from OS X - it is always visible and usable (which is better than the toMax MIDI-channels). Set this channel accordingly and set the same channel in the MAX patch (see below)!

BAR#

This track doesn't control anything - it simply states the current bar number (if you want to jump to a specific section in the piece). It's mostly the same as the bar numbers in live itself, but towards the end live can't manage a section (due to time signature and tempo settings) so you need to look here for the right measure number.

CLICK

This is a group of two channels. It hosts two audio channels which have all the click signals. One for the click itself (a Midi track which can be changed) and one with spoken cue points (i.e. measure numbers).

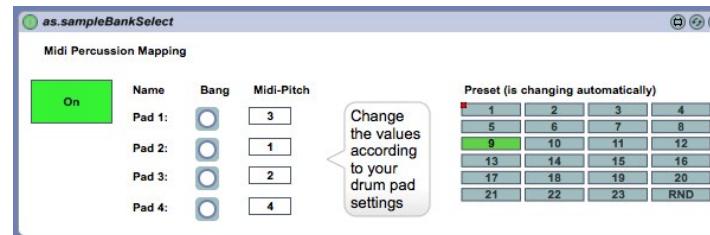
The volume of the click is strongly automated to be quiet in quiet sections and loud in fortissimo sections. Adapt this automation to your needs if necessary.

Perc-Midi

This is a MIDI track and takes as the input the Midi Drum Pad. In the lower section of the track you can set the midi pitches of your drum pad accordingly - by default the pitches are 1 2 3 4 - but you can select any pitch you wish.

In different sections of the piece different samples will be triggered by the pad. This

done with the patch as well - but this is automated and does not need to be changed manually. Select the right midi device (your pad) in the input section of the track.



In the Max4Live device in the track "PERC MIDI" you can set the correct MIDI Pitches for your Mid Drum Pad (see screenshot above). Either change your drum pad so it corresponds to these values or set the midi pitches accordingly. The button next to that field will indicate if the pad is working correctly once it's hit.

Violin-Tape & Tape

Two channels for the tape that is playing parallel to the musicians.

Processing

This is a rendered version of the processing of the instrument processing. It features all (tape-) sounds based on the instruments - but the processing is not done live.

Routing

All tape channels go to channel 1 and 2.

All processing channels go to channel 3 and 4.

The (wireless!) click goes to channel 5.

Use two stereo sums at the mixing desk for channel 1-4 and send the clicktrack directly to the wireless headphone amp.

MAX/MSP

Set the Midi Channel at the top. This has to be the same as the channel in Ableton Live.

Below are the brightness values for the four spots and the master brightness. These values are controlled by the midi signal and should change accordingly. You can use them manually to test the lights too!

Below is the section for the DMX-USB-device: It needs to be connected :) [check the max window if all the externals are found and installed - see below for all points related to the DMX device].

The section belows specifies the start address of the spots you are using. You need to set the same address at the spots and in the patch. Set the spots to DMX-RGB-control.

Based on this the RGB-channel info is send as DMX. For example if your first spot has the adress 1, then you set the address 1 too in the patch. That means the patch will send the “red light brightness” on channel 1, the green light on channel 2, blue on 3 - and actually, if your spot supports it white or amber on the next channel - in this case 4. If your spot doesn’t have white/amber you need to remove this part in the patch. If your spot needs any other control signals (i.e. spot focus or something like that - then you can set these static values at the right side of the patch).

The section below shows the brightness of the spot - so it visualizes what you should see - this is used for trouble shooting to see if the lights work correctly - it doesn’t influence the lights.

In the lowest section you can specify the color of the light. The automation in the piece just handles brightness (as one value) - here you can adjust the color for the spots. For example if the light is too blue you can reduce the amount of blue here.

The last section is at the right bottom corner. It specifies the fade time for the lights. This means that you can adjust how fast the light should change here. In the program automation the lights are often very hard - turning on and off immediately. If this is too harsh in the room you can set the value a bit higher. If you want it very strobe-like - then you can set it to “0”. This value can (and should be changed during the performance) - you can begin with a higher value and then decrease the value during the piece.

You might need to set some values for your spotlights manually (like focus, master fader, strobe setting, or similar). Do this with the values on the right side of the patch. You might need to add more of these if your lights have a lot of parameters.

DMX-Device

I am using this device: Enttec DMX USB Pro.

It is available here:

http://www.enttec.com/index.php?main_menu=Products&pn=70304

or can be rented from me.

It uses the max object [dmxusbpro] by Olaf Matthes.

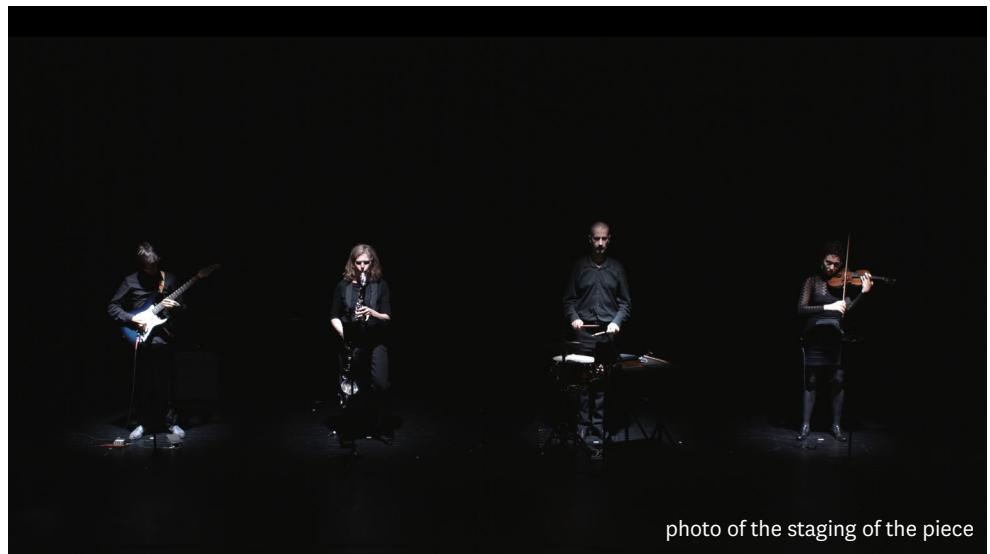


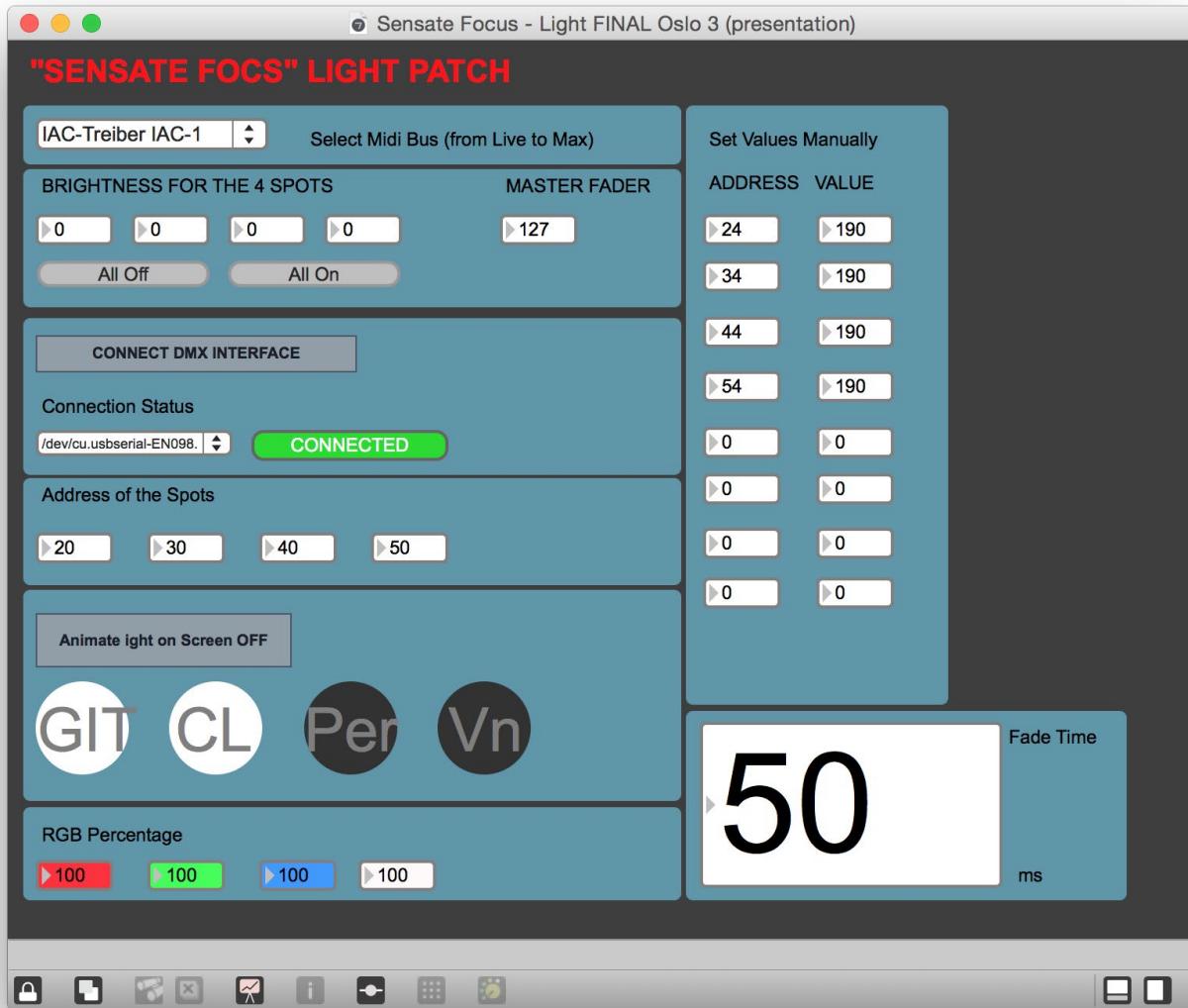
photo of the staging of the piece

The screenshot shows the Sensate Perform 34 Oslo 07 software interface. The top bar displays the title 'Sensate Perform 34 Oslo 07 [Sensate Focus]' and various transport controls. The main workspace is a multi-track sequencer with tracks labeled 'Sensate Focus - Violin incl Processing', 'Sensate Focus Tape 32bit 44kHz MasterOut', and 'Sensate Just Processing 2'. Each track has a processing chain attached to its right, showing various effects like 'Speaker On', 'IAC-Treiber', 'Click', 'Click-Num', 'PERC-MIDI', 'Violin-Tape', 'Tape', and 'Processing'. The bottom of the screen features a timeline from 0:00 to 3:00 and a 'Processing' button.

The screenshot shows the Sensate Perform 34 Oslo 07 software interface. The top bar displays various controls including TAP, tempo (111.54), time signature (4/2), and a key signature of D major. The main window is a patchbay with columns for LIGHT, BAR #, CLICK, Click-Nu, PERC-MIDI, Violin-Ta, TAPE, Processing, and Master. A vertical column on the right lists numbered slots (1-14) for dragging files and devices. The bottom half of the screen shows detailed audio routing for M. From and M. To, A. From and A. To, and Audio From and Audio To sections. A processing chain is visible at the bottom, featuring buttons for 1, 2, 3, 4, 5, 6, 7, 8, 9, and 10, along with solo and mute controls.

The screenshot displays a DAW interface with the following elements:

- Timeline:** Shows a red track labeled "Sensate Focus Tape 32Bit 44kHz MasterOut" with waveform data. The timeline is marked from 1:00 to 3:00 in 20-second increments.
- Transport Controls:** Includes buttons for play, stop, and volume.
- Track List:** Shows tracks labeled "TAPE" (Mixer), "Master" (3/4), and "8 S" (0 C).
- Module 1: as.sampleBankSelect**
 - Text: "set the pitch of your midi pads here"
 - Parameter: "as.drumMap" with a 4x5 grid of buttons labeled 1-20 and RND.
 - Text: "here the sample banks are changing (automatically)"
- Module 2: Fix 127**
 - Parameter: "Drive" (0.00)
 - Parameter: "Comp." (0.00)
 - Parameter: "Out Hi" (127)
 - Parameter: "Out Low" (127)
 - Parameter: "Operation" (Both)
 - Parameter: "Mode" (Clip, Gate, Fixed)
 - Parameter: "Range" (127, Lowest, 1)
 - Parameter: "Random" (0)
- Module 3: Drum Rack**
 - Grids for notes C2, C#2, D2, D#2, and various drum sounds (TOM06, Stick, Single_Hit_s_Region, dry_snare, Kick_28, PIA_Snar_e01, TOM04, VEH1_Closed, 808_clap_2, drumu_mid_tom, drumu_hi_tom, Hits_Regio_n_008).
- Module 4: Chain**
 - Header: "Chain" "Vol" "Pan"
 - Items: TSSM - Switc..., TSSM - Switc..., TSSM - Switc..., TSSM - Switc..., crasch, crasch, crasch, crasch.



Sensate Focus

Alexander Schubert

A 0:00 $\text{♩} = 120$

Bass-Clarinet

E-Guitar

Violin

Percussion

Performance Instructions:

- a confident *mf*, not chamber music semi-quiet, but rock-*mf*
- mf* muted, percussive
- muted, percussive

Sensate Focus

just air, no pitch

just air, no pitch

just air, no pitch

2
15

cl: *f*
el g: muted, percussive
vn
p

15

15

15

15

Sensate Focus

just air, no pitch

just air, no pitch

just air, no pitch

29

cl
el g
vn
p

29

29

29

29

CLAP

a confident mf,
not chamber music semi-quiet, but rock-mi

Sensate Focus

just air, no pitch

52

cl *mf*

el g *mf*

vn *mp* *mf*

p *mf*

Sensate Focus

Sensate Focus

Sensate Focus

Musical score for strings and piano, page 117, measures 1-10. The score includes parts for cl (clarinet), el g (electric guitar), vn (violin), and p (piano). The piano part features a sustained note with a fermata. The strings play eighth-note patterns with dynamic markings like *f*, *p*, *mf*, and muted. The electric guitar part includes grace notes and slurs. Measure 10 contains a "repeat cresc." instruction.

Sensate Focus

7

Sensate Focus

8

152

cl

152

el g

152

vn

152

p

as fast as possible
on PEDs

177

cl 2 4 - | 5 4 o - | 3 8 - | 3 4 - | - | 9 8 f Harm. XII 4 - | 3 8 - | 3 4 2 4 - | P P 3 4 - | 3 4 - | 7 8

el g 2 7 5 4 - | 3 8 2 4 - | 3 4 - | - | 9 8 f 4 - | 3 8 - | 3 4 2 4 - | P 3 4 - | 3 4 - | 7 8

vn 177 2 4 - | 5 4 o - | 3 8 - | 3 4 - | - | 9 8 f artificial air-guitar follow tape 4 - | 3 8 - | 3 4 2 4 - | P 3 4 - | 3 4 - | 7 8

p 177 2 4 - | 5 4 o - | 3 8 - | 3 4 - | - | 9 8 o - | 4 3 8 - | 3 4 2 4 - | P 3 4 - | 3 4 - | 7 8

freeze in a artificial pose guitar solo, lead to bar 182
freeze in a artificial pose
freeze in a artificial pose
freeze in a artificial pose

Sensate Focus

Sensate Focus

18x $\text{♩} = 140$ rit.

$\text{♩} = 50$

11

cl: 234 $\text{♩} = 140$ rit. $\text{♩} = 50$

el g: 234 $\text{♩} = 140$ rit. $\text{♩} = 50$

vn: 234 $\text{♩} = 140$ rit. $\text{♩} = 50$

p: 234 $\text{♩} = 140$ rit. $\text{♩} = 50$

Sensate Focus

cl: fff decresc until bar 272

el g: fff muted, percussive decresc until bar 272

vn: P

p: P

cl: fff decresc until bar 272

el g: fff decresc until bar 272

vn: fff decresc until bar 272

p: fff decresc until bar 272



271 $\text{♩} = 50$ accel. $\text{♩} = 60$

E 7:25 $\text{♩} = 120$

Harm. XII

cl: f

el g: f

vn: P f

p: f

cl: f

el g: f

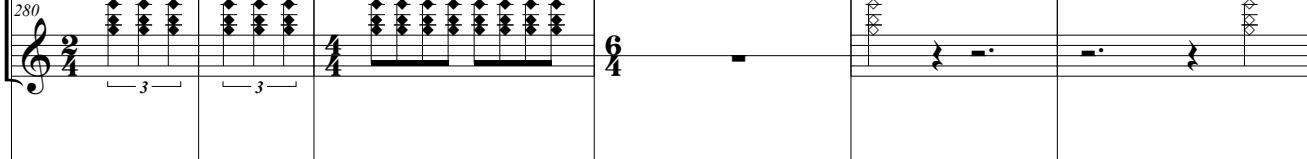
vn: f

p: f

Sensate Focus

12 280

cl: 

el g: 

vn: 

p: 

280

280

280

280

240

ff

ff

f

vn

p

cl

el g

vn

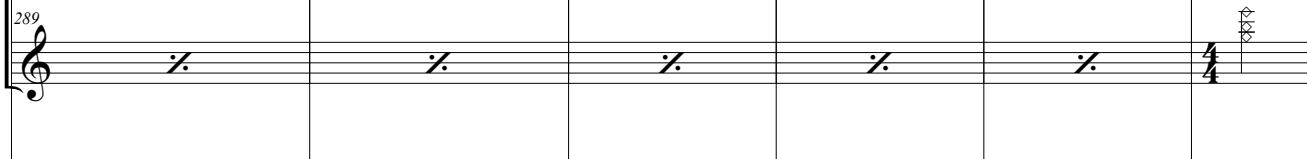
p

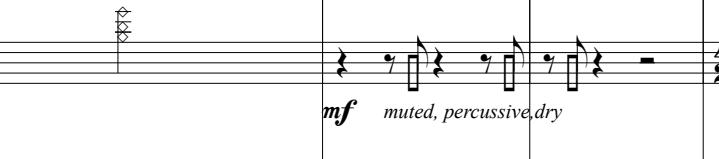


289 $\text{♩} = 240$ rit.

cl: 

el g: 

vn: 

p: 

289

extreme over-pressure

ff

ff

ord

f

mf muted, percussive, dry

289

vn

p

cl

el g

vn

p

Sensate Focus

305

cl *fff*

el g *ff* *something like this,*
fast down phrases
ORD

vn *f*

p *f*

Harm. XII

Harm. XII

f *ord.*
ALL -50 CENT

mf

mf muted, percussive, dry

mf

f

mf

P

Sensate Focus

Sensate Focus

15

Musical score for strings and piano, page 11, measures 343-352. The score is in common time. The instrumentation includes cl (clarinet), el g (electric guitar), vn (violin), and p (piano). The vocal part is not present in this image. The piano part features a variety of rhythmic patterns, including eighth-note chords, sixteenth-note patterns, and eighth-note patterns with grace notes. The electric guitar and violin parts provide harmonic support. The vocal part is indicated by a line of dots above the piano staff. Measure 343 starts with a piano dynamic of **P**. Measure 344 begins with a piano dynamic of **f**. Measure 345 starts with a piano dynamic of **mf**. Measure 346 starts with a piano dynamic of **P**. Measure 347 starts with a piano dynamic of **mf**. Measure 348 starts with a piano dynamic of **P**. Measure 349 starts with a piano dynamic of **mf**. Measure 350 starts with a piano dynamic of **P**. Measure 351 starts with a piano dynamic of **mf**. Measure 352 starts with a piano dynamic of **P**.



Sensate Focus

384

G 10:16 $\text{♩} = 30$

cl 5 8 $\text{♩} = 30$

el g 5 8 $\text{♩} = 30$

vn 5 8 $\text{♩} = 30$

p 5 8 $\text{♩} = 30$

384

H 10:32 $\text{♩} = 60$

cl 5 8 $\text{♩} = 60$

el g 5 8 $\text{♩} = 60$

vn 5 8 $\text{♩} = 60$

p 5 8 $\text{♩} = 60$

384

Harm. XII

cl 5 8 $\text{♩} = 60$

el g 5 8 $\text{♩} = 60$

vn 5 8 $\text{♩} = 60$

p 5 8 $\text{♩} = 60$

384

BULL ROARER

18 *433*

Sensate Focus

64x $\text{J} = 999$

J $\text{J} = 128$

cl

el g

vn

p

ord.

ffff

ffff

ffff

ffff

Sensate Focus

520

cl

el g

vn

p