Elisas Strange Case - Processing sketch

By f.Lüscher / fluescher.ch 2023 for Next Level Escape AG.

"AS IS" pi pa po etc.

Run this with processing.org or standalone when compiled on mac/win/linux/raspberry pi.

When not on Raspberry Pi with GPIO pins and 4 connected rotary encoders, set GPIO_AVAILABLE to false and DEBUG to true.

Press number keys 0-6 or left/right arrow keys to change stages manually. Press ESC or right mouse button to go to desktop.

STAGES

Stage#	Content	Interaction	At end of stage
0	Blackout.	Nothing works.	waits for UDP signal
1	Message "AWAITING INPUT".	Flick the switch!	waits for UDP signal
2	Startup sequence of computer.	Wait.	auto-jumps to stage 3
3	Elisas curves, without connected brainalizer on players head	Nothing works. Awaiting User to plug in Headset.	waits for UDP signal
4	Elisas curves, with connected brainalizer.	Adjust with dials to sync brainwaves.	auto-jumps to next stage when synched
5	Message "SUCCESS"	Wait.	waits for UDP signal
6	Elisas thoughts as sequence in DE & EN	Wait.	waits for UDP signal

UDP

Sending UDP Messages @ 53544:

data	info
sync_ready	initially "loaded" stage 3+4 (only on startup)
sync_success	both curves where properly aligned by the player
sync_end_of_thoughts	is sent after the last thought of elisa on stage 6
sync_died	program closed or died

Listens to UDP Messages @ port 53545:

data 	info
<pre>sync_stage0, sync_stage1 etc</pre>	Jump to a specific stage (06).
sync_skipLoading	can be used to skip the initial loading process if it takes forever. (Stage 3+4 will stay slow)

IP & USER

The IP address is fixed to 192.168.178.97.

• username raspberry pi: esc

• password raspberry pi: synchron

EXIT / RESTART APPLICATION

Press ESC or right mouse button to exit the program and see the desktop.

Double click the file play. sh on the desktop to restart application.

To see the whole screen on one monitor, press the "SPLITTER" button on the "video wall hdmi" remote inside the computer case.

To reset the screens, press the "2x2" button on the remote.

UPDATE

If adjustments to the scripts are needed, call f.luescher 0787424834 or info@fluescher.ch.

After changes are made, double click the file update_and_play.sh on the desktop to pull latest changes made - be sure to deliver an internet connection. During loading, you'll see a new version number.

LUCKY NUMBERS

Knob	Target	from	to	Error margin
Amplitude	+345	327	363	±18
Frequency	+307	289	325	±18
Scale	+12	2	22	±10
De-noise	+424	374	474	±50

NERD STUFF

deployment

1. **move** the file libprocessing—io.so from /linux—arm/lib out of the ways before deployment

- 2. Delete folder /linux-arm/lib because sometimes Processing does not deploy the newest version
- 3. Build with processing 4 on mac. forget java. Build empties the folder /linux-armfirst.
- 4. **move** the file libprocessing-io.so to /linux-arm/lib again. It is also available in the _tools folder.
- 5. git add, git push on mac
- 6. git pull on raspi

logging of boot:

```
tail -f /home/esc/.cache/lxsession/LXDE-pi/run.log
```

start elisas_synchronotron:

sudo /home/esc/Applications/sketchbook/elisas_synchronotron/linuxarm/elisas_synchronotron

change startup things:

nano /home/esc/.config/lxsession/LXDE-pi/autostart

If java is not found or java says "this application was build with a newer version of java":

EITHER: Update / install newest java

```
sudo apt install openjdk-17-jdk -y
```

OR: Use & make symlink to java that is used by processing editor (not needed if openigk 17 is installed):

sudo ln -s /home/esc/Applications/processing-4.1.2/java/bin/java
/usr/bin

If something with "libprocessing-io not found":

Use & make symlink to missing native io library (if)

ln -s ~/Applications/processing4.1.2/modes/java/libraries/io/library/linux-armv6hf/libprocessing-io.so
lib/