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# | Action | At end of stage |
|--------|--|--|
| 0 | Blackout | wait for UDP signal |
| 1 | Message "AWAITING INPUT" | wait for UDP signal |
| 2 | Startup sequence of computer | auto-jump to stage 3 |
| 3 | Elisas curves, without connected brainalizer on players head | wait for UDP signal |
| 4 | Elisas curves, with connected brainalizer. Adjust with dials to sync brainwaves. | auto-jump to next stage when synched |
| 5 | Message "SUCCESS" | wait for UDP signal |
| 6 | Elisas thoughts as sequence in DE & EN | wait for UDP signal |

IP & USER

The IP address is *currently* fixed to 192.168.1.60.

- username raspberry pi: esc
- password raspberry pi: synchron

UDP

Messages received by this script @ port 53545:

- sync_stage0, sync_stage1 etc: Jump to a specific stage (0...6).
- sync_skipLoading can be used to skip the initial loading process if it takes forever. (Stage 3+4 will not be as fast at first)

Messages sent by this script to port @ 53544:

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

EXIT APPLICATION TO DESKTOP

Press ESC or right mouse button.

ADJUSTMENTS

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

If adjustments to the scripts are needed, open the file

~/Applications/sketchbook/elisas_synchronotron/elisas_synchronotron.pde with processing.

Or double click the file editor. sh on the desktop and click "file > open recent.. > elisas_synchronotron".

Press the **play** button on the GUI to preview the changes. **ESC** or **right mouse** button to exit. Save and quit.

Double click the file play sh on the desktop to verify changes.

Double click the file update_and_play.sh on the desktop to pull latest changes made by f.Lüscher - be sure to deliver an internet connection.

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

NOTE: If you update, you loose all local changes made by you to

~/Applications/sketchbook/elisas_synchronotron/elisas_synchronotron.pde.

LUCKY NUMBERS

| Amplitude | +345 |
|-----------|------|
| Frequency | +307 |
| Scale | +12 |
| De-noise | +424 |

NERD STUFF

deployment

- 1. **keep** the folder / linux-arm for the sym link libprocessing-io.so which is not added automatically
- 2. Build with processing 4 on mac. forget java.
- 3. git add, git push on mac

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 openjdk 17 is isntalled):

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/