

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` to leave.

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 brainalyzer on players head | ..wait for UDP signal |
| 4 | Elisas curves, with connected brainalyzer. 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 |

UDP

Messages to control this script:

- `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:

- `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 & see desktop

Press **ESC**.

Adjustments

If adjustments to the scripts are needed, open the file

`~/Applications/sketchbook/synchronotron/synchronotron.pde` with processing.

Or double click the file `processing.sh` on the desktop and click "file > open recent.. > synchronotron".

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

Double click the file `startSketch.sh` on the desktop to verify changes.

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

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

`~/Applications/sketchbook/synchronotron/synchronotron.pde`.

LUCKY NUMBERS

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