Muse Developer Resources

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Overview

MusePlayer is a utility for recording, replaying, rerouting, and converting EEG and accelerometer data from Interaxon Muse EEG devices. It can save to and convert between the native Muse datatype (.muse), Matlab (HDF5), CSV, and OSC replay formats.

It is an open source project. All the source code and examples are available on Bitbucket.

Currently muse-player supports the following inputs and outputs:

Supported inputs:

- OSC network stream
- OSC-replay file format
- Muse file format v1
- Muse file format v2

Supported outputs:

- MATLAB (click here for a description of the output)
- CSV
- OSC network stream
- OSC-replay file format
- Muse file format v2
- Print to screen

How to run it

Simply type "muse-player" followed by your desired input and output

arguments. See below for a description of these arguments. You can also view this information by running muse-player with no arguments - it will be printed to your screen.

```
optional arguments:

  -h, --help            show this help message and exit

  -v, --verbose         Print status messages to stdout

  -q, --as-fast-as-possible

                        Replay input as fast as possible
instead of using

                        original timing.

  -j, --jump-data-gaps  Replay input by omitting any data
gaps larger than 1

                        second.

  -n, --no--time--data  Replay input by omitting output
of current timing

                        info.

  -i FILTER_DATA [FILTER_DATA ...], --filter FILTER_DATA
[FILTER_DATA ...]

                        Filter data by path. e.g. -i
/muse/dsp/elements/alpha

                        /muse/eeg


Input options:

  Only one type of input can be specified, but can be
multiple files of the same type:


  -l [INPUT_OSC_PORT], --input-osc-port [INPUT_OSC_PORT]

                        Listen for OSC messages on this
port (default:

                        tcp:5000).
```

```
  -f INPUT_MUSE_FILES [INPUT_MUSE_FILES ...], --input-
muse-files INPUT_MUSE_FILES [INPUT_MUSE_FILES ...]

                        Input from Muse file format.

  -o INPUT_OSCREPLAY_FILES [INPUT_OSCREPLAY_FILES ...],
--input-oscreplay-files INPUT_OSCREPLAY_FILES
[INPUT_OSCREPLAY_FILES ...]

                        Input from OSC-replay files.


Output options:

  One or more outputs can be specified:


  -s [OUTPUT_OSC_URL], --output-osc-url [OUTPUT_OSC_URL]

                        Output OSC messages to HOST:PORT
(default:

                        osc.tcp://localhost:5000)

  -F FILE, --output-muse-file FILE

                        Output to a Muse file

  -M FILE, --output-matlab-file FILE

                        Output to a Matlab file

  -O FILE, --output-oscreplay-file FILE

                        Output to an OSC-replay file

  -C FILE, --output-csv-file FILE

                        Output to an CSV file

  -D, --output-screen-dump

                        Output to the screen directly


Examples:

    muse-player -f my_eeg_recording.muse -s
osc.tcp://localhost:7887
```

```
        This will read in the file
"my_eeg_recording.muse" and send those messages as OSC to
port 7887.


    muse-player -l 5555 -M matlab.mat -s 5000

        This will receive OSC messages on port 5555, save
them to file, and rebroadcast them to port 5000.
```

Subpages (1): MATLAB Output File

Comments

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