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.

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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
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```
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
```

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                           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](#)

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