

Running MidLineFrontal Theta Neurofeedback with Visual Stimulus

In a typical session, you will call the `nfblab_process` with the `runmode` option set to `baseline` to acquire a baseline of about 1 minute. This will allow Neurofeedbacklab to find bad channels, set up the Artifact Subspace Reconstruction filter, run ICA and find bad components. After the baseline run, you run one or more trial runs (`runmode` option set to `trial`)

See `>>nfblab_process('help', true)` for help

Note: NS crashes when connecting via EGI app starts

Possible Protocol: Check Impedance, Exit NS, Start Program, Check Impedance

How to set up multiple trials and BCILab/exec file?

Theta Chan1

Set Parameters for DenseNet

```
clear all
% Run nfblab for any headset which has LSL
% -----
addpath(fullfile(pwd, '..', '..'));
%Based on Hydrocel GSN 130 Net (256)
nChan = 256; % number of channels
Chan = [26,21,47,2,96,170,126]; %Channel Vector Fpz(COM?), FZ, F7, F8, %Cz (Omitted from
sRate = 1000; % sampling rate
```

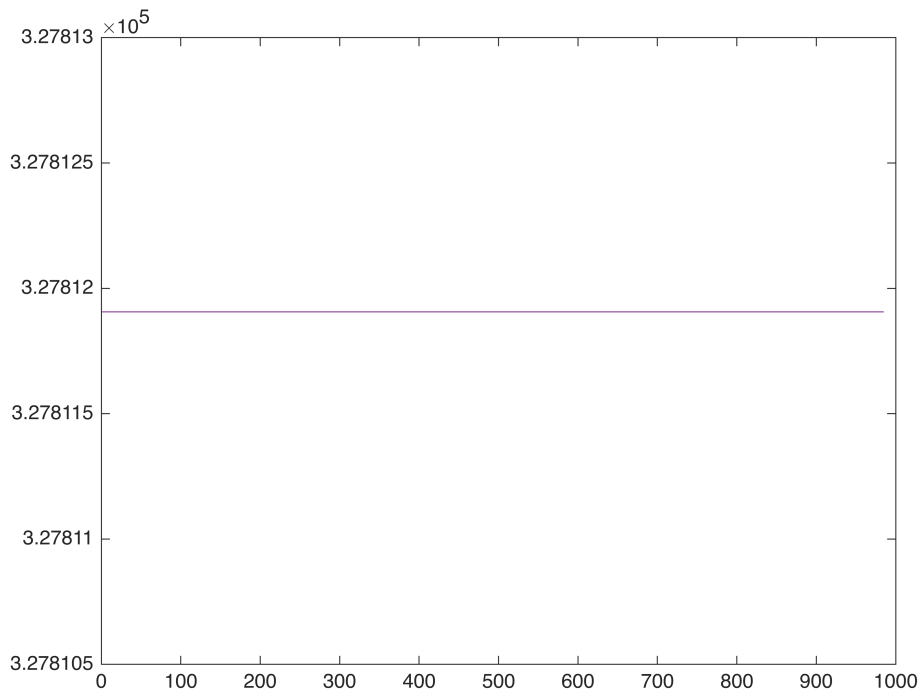
(Optional) Test EEG Connection

From INSTALL.md, Turn on LSL EGI Amp App first

```
% Turn on Amp via EGIAmpServer-App
lib = lsl_loadlib();
result = nfblab_findlslstream(lib, 'EEG', '')
```

```
result = 1x1 cell array
        {1x1 lsl_streaminfo}
```

```
inlet = lsl_inlet(result{1});
pause(1);
[chunk,stamps] = inlet.pull_chunk();
pause(1);
[chunk,stamps] = inlet.pull_chunk();
figure; plot(chunk');
```



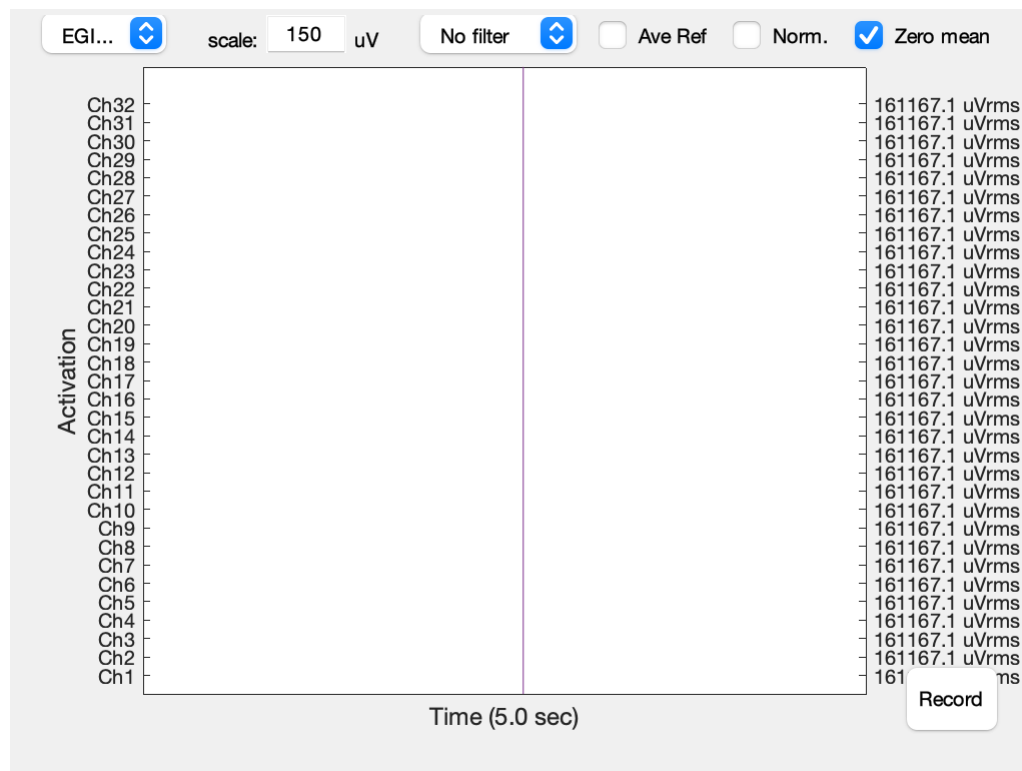
`vis_stream()`

Using the slower MATLAB fallback for `setdiff()`. Consider setting up a compiler to get much improved BCILAB

Looking for a stream with name=EGI NetAmp 0 ...

Opening an inlet...

The number of channels in the steam does not match the number of labeled channel records. Using numbered



Run Baseline

With *nflab_process.m* with the *runmode* option set to *baseline* to acquire a baseline of about 1 minute

```
% Run nflab for MUSE using psychtoolbox for visual feedback
% The psychophysics toolbox need to be installed
% The color of a square changes based on theta power
% -----
addpath(fullfile(pwd, '..', '..'));

options = { ...
    'chans'           Chan ...
    'chanmask'        eye(length(Chan)) ...
    'srate'           250 ...
    'srateHardware'   sRate ...
    'filtFlag'        false ...
    'runmode'         'baseline' ...
    'baselineSessionDuration' 60 ...
    'pauseSecond'     0.2 ...
    'asrFlag'         false...
};
nflab_process(options{:});
```

```
Looking up software version (commit hash)
Could not look up software version; Loading software version from file.
Warning: commit file not found, cannot log software version
```

```
*****
*****
** NEUROFEEDBACKLAB **
*****
*****
```

```
Version: fatal: n (git commit)
```

```
Type "help nflab_process" for basic parameter help
Type "nflab_process('help', true)" for more advanced parameter help
Refer to online documentation and protocols for more information.
```

```
HPF has cutoff of 1.0 Hz, transition bandwidth of 0.5 Hz and its order is 3.0
```

```
*****
* session parameters *
*****
runmode           'baseline'
warnsrate         0
fileNameAsr       'data_nflab_2023-10-25_13-48_asr_filter.mat'
fileNameOut       'data_nflab_2023-10-25_13-48.mat'
fileNameRaw       'data_nflab_2023-10-25_13-48_raw.set'
TCPIP            0
TCPport          9789
pauseSecond      0.2
baselineSessionDuration 60
sessionDuration  3600
help             0
checkglobalmsg
*****
* input parameters *
*****
lsctype          'EEG'
lslname
```

```

chans                [26 21 47 2 96 170 126]
srate                250
chanlocs
srateHardware        1000
windowSize           250
windowInc            63
chanmask             [1 0 0 0 0 0 0;0 1 0 0 0 0 0;0 0 1 0 0 0 0;0 0 0 1 0 0 0;0 0 0 0 1 0 0;0 0 0
*****
* preproc parameters *
*****
filtFlag             0
badchanFlag          0
asrFlag              0
asrCutoff            20
icaFlag              0
averefFlag           0
chanCorr             0.65
*****
* measure parameters *
*****
freqrange            [3.5 6.5]
freqdb               1
freqprocess          1 functions to compute on frequencies provided
loretaFlag           0
loreta_file
normfile
normagerange
nfft                 250
preset               'default'
*****
* feedback parameters *
*****
feedbackMode         'dynrange'
threshold
thresholdMem
thresholdMode        'go'
thresholdWin         180
thresholdPer         0.8
dynRange             [16 29]
dynRangeInc          0.0333
dynRangeDec          0.01
maxChange            0.05
capdBchange          1000
feedbackfield        'thetaChan1'
diary
funcinit
funcfeedback         'nfbllab_feedback_simpleplot'
funcend

Warning: Name is nonexistent or not a directory: /Users/samanthapitts/Documents/MATLAB/
neurofeedbacklab-master/src/liblsl-Matlab
Warning: Name is nonexistent or not a directory: /Users/samanthapitts/Documents/MATLAB/
neurofeedbacklab-master/src/liblsl-Matlab/bin
Feedback "Ready" sent to client (if any)
Loading the library...
Resolving an EEG stream...
Opening an inlet...
Now receiving chunked data...
Feedback "Ready" sent to client (if any)
Decoding option runmode: baseline
*****
* session parameters *
*****
runmode              'baseline'
warnsrate            0

```

```

fileNameAsr      'data_nfblab_2023-10-25_13-48_asr_filter.mat'
fileNameOut      'data_nfblab_2023-10-25_13-48.mat'
fileNameRaw      'data_nfblab_2023-10-25_13-48_raw.set'
TCPIP            0
TCPport          9789
pauseSecond      0.2
baselineSessionDuration 60
sessionDuration  3600
help             0
checkglobalmsg
*****
* input parameters *
*****
lsdtype          'EEG'
lslname
chans            [26 21 47 2 96 170 126]
srate            250
chanlocs
srateHardware    1000
windowSize       250
windowInc        63
chanmask         [1 0 0 0 0 0 0;0 1 0 0 0 0 0;0 0 1 0 0 0 0;0 0 0 1 0 0 0;0 0 0 0 1 0 0;0 0 0 0 0 1 0 0;0 0 0 0 0 0 1 0 0]
*****
* preproc parameters *
*****
filtFlag         0
badchanFlag      0
asrFlag          0
asrCutoff        20
icaFlag          0
avereffFlag      0
chanCorr         0.65
*****
* measure parameters *
*****
freqrange        [3.5 6.5]
freqdb           1
freqprocess      1 functions to compute on frequencies provided
loretaFlag       0
loreta_file
normfile
normagerange
nfft             250
preset           'default'
*****
* feedback parameters *
*****
feedbackMode      'dynrange'
threshold
thresholdMem
thresholdMode     'go'
thresholdWin      180
thresholdPer      0.8
dynRange          [16 29]
dynRangeInc       0.0333
dynRangeDec       0.01
maxChange         0.05
capdBchange       1000
feedbackfield     'thetaChan1'
diary
funcinit
funcfeedback      'nfblab_feedback_simpleplot'
funcend

```

Warning: Name is nonexistent or not a directory: /Users/samanthapitts/Documents/MATLAB/neurofeedbacklab-master/src/libls-Matlab

Warning: Name is nonexistent or not a directory: /Users/samanthapitts/Documents/MATLAB/neurofeedbacklab-master/src/libls-Matlab/bin

Starting new session...

eeg_checkset note: upper time limit (xmax) adjusted so (xmax-xmin)*srate+1 = number of frames

Feedback "Streaming" sent to client (if any)

Feedback "Streaming" sent to client (if any)

Feedback "Streaming" sent to client (if any)

Feedback "Streaming" sent to client (if any)

Feedback "Streaming" sent to client (if any)

Feedback {"thetaChan1":53.901247664153857,"threshold":"","value":53.901247664153857,"statechange":false,"feedb

Feedback "Streaming" sent to client (if any)

Feedback {"thetaChan1":56.2789767601453,"threshold":"","value":56.2789767601453,"statechange":false,"feedb

Feedback {"thetaChan1":55.0651450289779,"threshold":"","value":55.0651450289779,"statechange":false,"feedb

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Feedback {"thetaChan1":53.821277138724028,"threshold":"","value":53.821277138724028,"statechange":false,"feedb

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Feedback "Streaming" sent to client (if any)

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Feedback "Streaming" sent to client (if any)

Feedback {"thetaChan1":67.639907514935672,"threshold":"","value":67.639907514935672,"statechange":true,"feedb

Feedback {"thetaChan1":66.9923002544568,"threshold":"","value":66.9923002544568,"statechange":true,"feedb

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Feedback "Streaming" sent to client (if any)

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Feedback "Streaming" sent to client (if any)

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Feedback "Streaming" sent to client (if any)

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Feedback {"thetaChan1":52.798941607217344,"threshold":"","value":52.798941607217344,"statechange":false,"

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Feedback "Streaming" sent to client (if any)
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Feedback "Streaming" sent to client (if any)
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Feedback "Streaming" sent to client (if any)
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Feedback "Streaming" sent to client (if any)
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Feedback {"thetaChan1":51.678564981899626,"threshold":"","value":51.678564981899626,"statechange":false,"
Feedback "Streaming" sent to client (if any)
Feedback {"thetaChan1":50.404000771255824,"threshold":"","value":50.404000771255824,"statechange":false,"

```



```

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Feedback "Streaming" sent to client (if any)
Feedback {"thetaChan1":53.939108566415072,"threshold":"","value":53.939108566415072,"statechange":false,"
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Feedback {"thetaChan1":53.527981463855269,"threshold":"","value":53.527981463855269,"statechange":false,"
Feedback {"thetaChan1":59.1360847390027,"threshold":"","value":59.1360847390027,"statechange":false,"feed
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Feedback "Streaming" sent to client (if any)
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Feedback {"thetaChan1":61.004115168011509,"threshold":"","value":61.004115168011509,"statechange":false,"
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Feedback {"thetaChan1":66.421605066503759,"threshold":"","value":66.421605066503759,"statechange":true,"fe
Feedback {"thetaChan1":61.68685568316085,"threshold":"","value":61.68685568316085,"statechange":true,"feed
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Feedback {"thetaChan1":64.767721226150812,"threshold":"","value":64.767721226150812,"statechange":true,"fe
Feedback "Streaming" sent to client (if any)
Feedback {"thetaChan1":59.666514360930691,"threshold":"","value":59.666514360930691,"statechange":false,"
Feedback {"thetaChan1":57.51307160887648,"threshold":"","value":57.51307160887648,"statechange":false,"fe
Feedback {"thetaChan1":57.027793829399947,"threshold":"","value":57.027793829399947,"statechange":false,"
Feedback {"thetaChan1":54.464142956910031,"threshold":"","value":54.464142956910031,"statechange":false,"
Feedback "Streaming" sent to client (if any)
Ending session...
Saving Baseline file data_nfblab_2023-10-25_13-48_asr_filter.mat
Feedback "paused" sent to client (if any)
Quitting...

```

Save Filename

```
trial = 6
```

```
trial = 6
```

```
filename = sprintf('jo_ws10_25_23_%d.mat',trial);  
save(filename)  
%consider average reference? req for freq?%%
```

Run Single Trial and Save Result

With *nflab_muse_psychotoolbox.m*

```
% Run nflab for MUSE using psychotoolbox for visual feedback  
% The psychophysics toolbox need to be installed  
% The color of a square changes based on theta power  
% -----  
addpath(fullfile(pwd, '..', '..'));  
  
options = { ...  
    'chans'           Chan ...  
    'chanmask'       eye(length(Chan)) ...  
    'srate'          sRate ...  
    'srateHardware'  sRate ...  
    'filtFlag'       false ...  
    'runmode'        'trial' ...  
    'sessionDuration' 300 ... %5min; longer data chunks  
    'pauseSecond'    0.2 ...  
    'badchanFlag'    false ...  
    'icaFlag'        false ...  
    'asrFlag'        false ...  
    'freqrange'      { [4 8] [8 12] [8 10] [10 12] [18 22] [4 10] [12 15] [20 ...  
    'feedbackMode'   'dynrange' ...  
    'funcinit'       'nflab_feedback_psychotoolbox_init' ...  
    'funcfeedback'   'nflab_feedback_psychotoolbox_process' ...  
    'funcend'        'nflab_feedback_psychotoolbox_end' ...  
};  
  
nflab_process(options{:});
```

```
Looking up software version (commit hash)  
Could not look up software version; Loading software version from file.  
Warning: commit file not found, cannot log software version
```

```
*****  
*****  
** NEUROFEEDBACKLAB **  
*****  
*****
```

```
Version: fatal: n (git commit)
```

```
Type "help nflab_process" for basic parameter help  
Type "nflab_process('help', true)" for more advanced parameter help  
Refer to online documentation and protocols for more information.
```

```
HPF has cutoff of 1.0 Hz, transition bandwidth of 0.5 Hz and its order is 3.0
```

```

*****
* session parameters *
*****
runmode                'trial'
warnsrates              0
fileNameAsr             'data_nfblab_2023-10-25_13-34_asr_filter.mat'
fileNameOut             'data_nfblab_2023-10-25_13-34.mat'
fileNameRaw             'data_nfblab_2023-10-25_13-34_raw.set'
TCPIP                  0
TCPport                9789
pauseSecond            0.2
baselineSessionDuration 60
sessionDuration        300
help                   0
checkglobalmsg
*****
* input parameters *
*****
lsctype                'EEG'
lslname
chans                  [26 21 47 2 96 170 126]
srate                  1000
chanlocs
srateHardware          1000
windowSize             1000
windowInc              250
chanmask               [1 0 0 0 0 0 0;0 1 0 0 0 0 0;0 0 1 0 0 0 0;0 0 0 1 0 0 0;0 0 0 0 1 0 0;0 0 0 0 0 1 0 0;0 0 0 0 0 0 1 0 0]
*****
* preproc parameters *
*****
filtFlag               0
badchanFlag            0
asrFlag                0
asrCutoff              20
icaFlag                0
avereffFlag            0
chanCorr               0.65
*****
* measure parameters *
*****
freqrange              [4 8] , [8 12] , [8 10] , [10 12] , [18 22] , [4 10] , [12 15] , [20 30]
freqdb                 1
freqprocess            1 functions to compute on frequencies provided
loretaFlag             0
loreta_file
normfile
normagerange
nfft                   1000
preset                 'default'
*****
* feedback parameters *
*****
feedbackMode           'dynrange'
threshold
thresholdMem
thresholdMode          'go'
thresholdWin           180
thresholdPer           0.8
dynRange               [16 29]
dynRangeInc            0.0333
dynRangeDec            0.01
maxChange              0.05
capdBchange            1000
feedbackfield          'thetaChan1'

```

```

diary
funcinit      'nfblab_feedback_psychtoolbox_init'
funcfeedback  'nfblab_feedback_psychtoolbox_process'
funcend       'nfblab_feedback_psychtoolbox_end'
Warning: Name is nonexistent or not a directory: /Users/samanthapitts/Documents/MATLAB/
neurofeedbacklab-master/src/liblsl-Matlab
Warning: Name is nonexistent or not a directory: /Users/samanthapitts/Documents/MATLAB/
neurofeedbacklab-master/src/liblsl-Matlab/bin
Could not execute feedback function, try running it as a script
PTB-INFO: Retina display. Enabling panel fitter for scaled Retina compatibility mode.

PTB-INFO: This is Psychtoolbox-3 for Apple macOS, under Matlab 64-Bit (Version 3.0.19 - Build date: May 1
PTB-INFO: OS support status: macOS version 13 Intel is minimally tested and supported.
PTB-INFO: Type 'PsychtoolboxVersion' for more detailed version information.
PTB-INFO: Most parts of the Psychtoolbox distribution are licensed to you under terms of the MIT License,
PTB-INFO: some restrictions. See file 'License.txt' in the Psychtoolbox root folder for the exact licensin

PTB-INFO: For information about paid support, support memberships and other commercial services, please ty
PTB-INFO: 'PsychPaidSupportAndServices'.

PTB-INFO: Installation of the PsychtoolboxKernelDriver is strongly recommended if you care about precise v
PTB-INFO: onset timestamping or timing. See 'help PsychtoolboxKernelDriver' for installation instructions.

PTB-INFO: OpenGL-Renderer is Intel Inc. :: Intel(R) Iris(TM) Plus Graphics OpenGL Engine :: 2.1 INTEL-20.0
PTB-INFO: Renderer has 1536 MB of VRAM and a maximum 5376 MB of texture memory.
PTB-INFO: VBL startline = 1280 , VBL Endline = -1
PTB-INFO: Beamposition queries unsupported or defective on this system. Using basic timestamping as fallba
PTB-INFO: Timestamps returned by Screen('Flip') will be therefore less robust and accurate.
PTB-INFO: Measured monitor refresh interval from VBLsync = 8.392395 ms [119.155499 Hz]. (119 valid samples
PTB-INFO: Small deviations between reported values are normal and no reason to worry.
PTB-WARNING: =====
PTB-WARNING: DESKTOP COMPOSITOR IS ACTIVE! ALL FLIP STIMULUS ONSET TIMESTAMPS WILL BE VERY LIKELY UNRELIAB
PTB-WARNING: STIMULUS ONSET TIMING WILL BE UNRELIABLE AS WELL, AND GRAPHICS PERFORMANCE MAY BE REDUCED!
PTB-WARNING: DO NOT USE THIS MODE FOR RUNNING REAL EXPERIMENT SESSIONS WITH ANY REQUIREMENTS FOR ACCURATE
PTB-WARNING: =====

WARNING: Couldn't compute a reliable estimate of monitor refresh interval! Trouble with VBL syncing!?!

----- ! PTB - ERROR: SYNCHRONIZATION FAILURE ! -----

One or more internal checks (see Warnings above) indicate that synchronization
of Psychtoolbox to the vertical retrace (VBL) is not working on your setup.

This will seriously impair proper stimulus presentation and stimulus presentation timing!
Please read 'help SyncTrouble' for information about how to solve or work-around the problem.
You can force Psychtoolbox to continue, despite the severe problems, by adding the command
Screen('Preference', 'SkipSyncTests', 1); at the top of your script, if you really know what you are doing

PTB-INFO: Psychtoolbox imaging pipeline starting up for window with requested imagingmode 33793 ...
PTB-INFO: Will use 8 bits per color component framebuffer for stimulus drawing.
PTB-INFO: Enabling panel fitter. Providing virtual framebuffer of 800 x 600 pixels size.
PTB-INFO: Will use 8 bits per color component framebuffer for stimulus post-processing (if any).
ans = 10
Feedback "Ready" sent to client (if any)
Loading the library...
Resolving an EEG stream...
Opening an inlet...
Now receiving chunked data...
Feedback "Ready" sent to client (if any)
Decoding option runmode: trial

```

```

*****
* session parameters *
*****
runmode                'trial'
warnsrates              0
fileNameAsr             'data_nfblab_2023-10-25_13-34_asr_filter.mat'
fileNameOut             'data_nfblab_2023-10-25_13-34.mat'
fileNameRaw             'data_nfblab_2023-10-25_13-34_raw.set'
TCPIP                   0
TCPport                 9789
pauseSecond             0.2
baselineSessionDuration 60
sessionDuration         300
help                    0
checkglobalmsg
*****
* input parameters *
*****
lsctype                 'EEG'
lslname
chans                   [26 21 47 2 96 170 126]
srate                   1000
chanlocs
srateHardware           1000
windowSize              1000
windowInc               250
chanmask                [1 0 0 0 0 0 0;0 1 0 0 0 0 0;0 0 1 0 0 0 0;0 0 0 1 0 0 0;0 0 0 0 1 0 0;0 0 0 0 0 1 0 0;0 0 0 0 0 0 1 0 0]
*****
* preproc parameters *
*****
filtFlag                0
badchanFlag              0
asrFlag                  0
asrCutoff                20
icaFlag                  0
avereffFlag              0
chanCorr                 0.65
*****
* measure parameters *
*****
freqrange               [4 8] , [8 12] , [8 10] , [10 12] , [18 22] , [4 10] , [12 15] , [20 30]
freqdb                  1
freqprocess              1 functions to compute on frequencies provided
loretaFlag              0
loreta_file
normfile
normagerange
nfft                     1000
preset                  'default'
*****
* feedback parameters *
*****
feedbackMode             'dynrange'
threshold
thresholdMem
thresholdMode            'go'
thresholdWin             180
thresholdPer             0.8
dynRange                 [16 29]
dynRangeInc              0.0333
dynRangeDec              0.01
maxChange                0.05
capdBchange              1000
feedbackfield            'thetaChan1'

```

```

diary
funcinit          'nfbmlab_feedback_psychotoolbox_init'
funcfeedback      'nfbmlab_feedback_psychotoolbox_process'
funcend           'nfbmlab_feedback_psychotoolbox_end'
Warning: Name is nonexistent or not a directory: /Users/samanthapitts/Documents/MATLAB/
neurofeedbacklab-master/src/liblsl-Matlab
Warning: Name is nonexistent or not a directory: /Users/samanthapitts/Documents/MATLAB/
neurofeedbacklab-master/src/liblsl-Matlab/bin
Starting new session...
eeg_checkset note: upper time limit (xmax) adjusted so (xmax-xmin)*srate+1 = number of frames
Feedback "Streaming" sent to client (if any)
Feedback "Streaming" sent to client (if any)
Feedback "Streaming" sent to client (if any)
Feedback "Streaming" sent to client (if any)
Feedback "Streaming" sent to client (if any)
Feedback {"thetaChan1":69.9627852653817,"threshold":"","value":69.9627852653817,"statechange":false,"feedb
Feedback "Streaming" sent to client (if any)
Feedback {"thetaChan1":70.44992163005935,"threshold":"","value":70.44992163005935,"statechange":false,"fe
Feedback {"thetaChan1":69.388423241575239,"threshold":"","value":69.388423241575239,"statechange":false,"
Feedback {"thetaChan1":66.422721118815517,"threshold":"","value":66.422721118815517,"statechange":false,"
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Feedback {"thetaChan1":60.311758018966366,"threshold":"","value":60.311758018966366,"statechange":false,"
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Feedback {"thetaChan1":64.850350965644623,"threshold":"","value":64.850350965644623,"statechange":false,"
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Feedback {"thetaChan1":63.709901905367232,"threshold":"","value":63.709901905367232,"statechange":false,"
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Feedback "Streaming" sent to client (if any)
Feedback {"thetaChan1":67.115065341565227,"threshold":"","value":67.115065341565227,"statechange":true,"f
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Feedback {"thetaChan1":56.7849920182945,"threshold":"","value":56.7849920182945,"statechange":true,"feedb
Feedback {"thetaChan1":59.143577038895209,"threshold":"","value":59.143577038895209,"statechange":true,"f
Feedback {"thetaChan1":62.807038549210652,"threshold":"","value":62.807038549210652,"statechange":true,"f
Feedback "Streaming" sent to client (if any)
Feedback {"thetaChan1":63.650211482980204,"threshold":"","value":63.650211482980204,"statechange":true,"f
Feedback {"thetaChan1":63.58898843426789,"threshold":"","value":63.58898843426789,"statechange":true,"feed
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Feedback {"thetaChan1":58.153210967689134,"threshold":"","value":58.153210967689134,"statechange":true,"f
Feedback {"thetaChan1":56.346082441045112,"threshold":"","value":56.346082441045112,"statechange":true,"f
Feedback "Streaming" sent to client (if any)
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Feedback {"thetaChan1":58.934735927874812,"threshold":"","value":58.934735927874812,"statechange":true,"f
Feedback {"thetaChan1":60.728683542649044,"threshold":"","value":60.728683542649044,"statechange":true,"f
Feedback {"thetaChan1":59.648139919469756,"threshold":"","value":59.648139919469756,"statechange":true,"f
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Feedback {"thetaChan1":61.449835978734377,"threshold":"","value":61.449835978734377,"statechange":true,"f
Feedback {"thetaChan1":69.14567255548107,"threshold":"","value":69.14567255548107,"statechange":true,"feed
Feedback {"thetaChan1":73.475385046914909,"threshold":"","value":73.475385046914909,"statechange":true,"f
Feedback {"thetaChan1":70.974806136414074,"threshold":"","value":70.974806136414074,"statechange":true,"f
Feedback "Streaming" sent to client (if any)
Feedback {"thetaChan1":73.135626014511132,"threshold":"","value":73.135626014511132,"statechange":true,"f
Feedback {"thetaChan1":69.967278899693909,"threshold":"","value":69.967278899693909,"statechange":true,"f
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Feedback {"thetaChan1":63.287961631875653,"threshold":"","value":63.287961631875653,"statechange":true,"f
Feedback {"thetaChan1":63.537022992601713,"threshold":"","value":63.537022992601713,"statechange":true,"f
Feedback "Streaming" sent to client (if any)
Feedback {"thetaChan1":61.690278002861618,"threshold":"","value":61.690278002861618,"statechange":true,"f
Feedback {"thetaChan1":63.769288119881651,"threshold":"","value":63.769288119881651,"statechange":true,"f
Feedback {"thetaChan1":61.154863622515251,"threshold":"","value":61.154863622515251,"statechange":true,"f
Feedback {"thetaChan1":59.570569478840227,"threshold":"","value":59.570569478840227,"statechange":true,"f
Feedback {"thetaChan1":57.219525927008412,"threshold":"","value":57.219525927008412,"statechange":true,"f

```


Feedback {"thetaChan1":61.523789403839004,"threshold":"","value":61.523789403839004,"statechange":false,"
Feedback {"thetaChan1":60.57500549878101,"threshold":"","value":60.57500549878101,"statechange":false,"fe
Feedback {"thetaChan1":58.552882428482192,"threshold":"","value":58.552882428482192,"statechange":false,"
Feedback "Streaming" sent to client (if any)
Feedback {"thetaChan1":56.724997119913,"threshold":"","value":56.724997119913,"statechange":false,"feedba
Feedback {"thetaChan1":62.0542193050835,"threshold":"","value":62.0542193050835,"statechange":false,"feed
Feedback {"thetaChan1":65.147345786276844,"threshold":"","value":65.147345786276844,"statechange":false,"
Feedback {"thetaChan1":64.658251380280035,"threshold":"","value":64.658251380280035,"statechange":false,"
Feedback {"thetaChan1":65.418813354330936,"threshold":"","value":65.418813354330936,"statechange":false,"
Feedback "Streaming" sent to client (if any)
Feedback {"thetaChan1":61.722875665159592,"threshold":"","value":61.722875665159592,"statechange":false,"
Feedback {"thetaChan1":60.044148875257704,"threshold":"","value":60.044148875257704,"statechange":false,"
Feedback {"thetaChan1":64.768389439514266,"threshold":"","value":64.768389439514266,"statechange":false,"
Feedback {"thetaChan1":65.128817579483055,"threshold":"","value":65.128817579483055,"statechange":false,"
Feedback {"thetaChan1":63.243716720374266,"threshold":"","value":63.243716720374266,"statechange":false,"
Feedback "Streaming" sent to client (if any)
Feedback {"thetaChan1":61.1005037906705,"threshold":"","value":61.1005037906705,"statechange":false,"feed
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Feedback {"thetaChan1":61.176233127348389,"threshold":"","value":61.176233127348389,"statechange":false,"
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Feedback "Streaming" sent to client (if any)  
F...
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Save Filename

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```
trial = 5
```

```
filename = sprintf('jo_ws10_25_23_%d.mat',trial);  
save(filename)
```