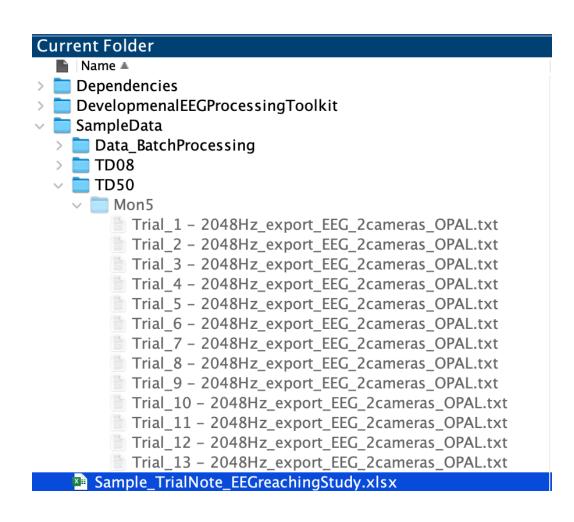
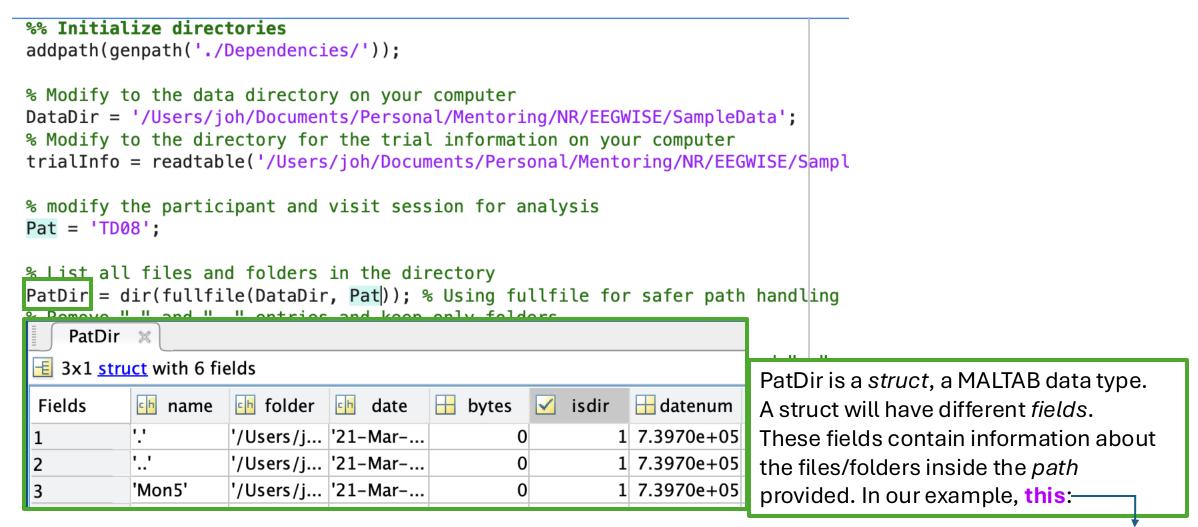
EEGWISE

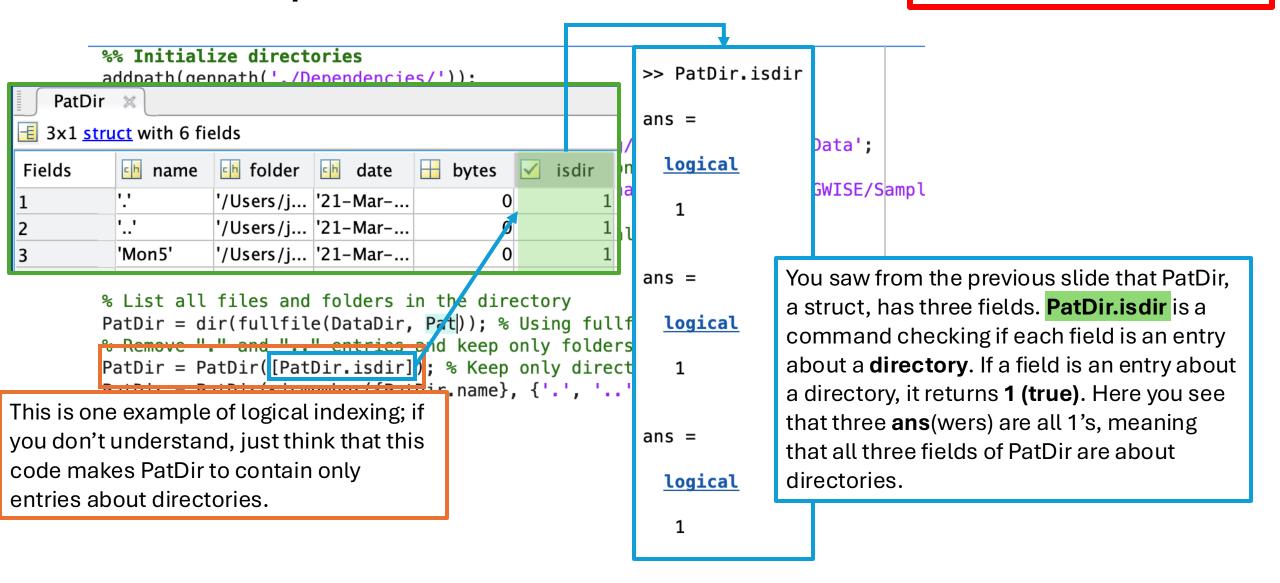
As of 3/21/2025

Prerequisite: Mon@ folder inside TD@@ folder



```
%% Initialize directories
       addpath(genpath('./Dependencies/'));
      % Modify to the data directory on your computer
       DataDir = '/Users/joh/Documents/Personal/Mentoring/NR/EEGWISE/SampleData';
      % Modify to the directory for the trial information on your computer
      trialInfo = readtable('/Users/joh/Documents/Personal/Mentoring/NR/EEGWISE/Sampl
      % modify the participant and visit session for analysis
       Pat = '\frac{TD08}{}'; TD50
                                             >> fullfile(DataDir, Pat)
      % list all files and folders in the
      PatDir = dir(fullfile(DataDir, Pat))
                                                     fullfile() makes the absolute, concatenating DataDir and Pat
                                            ans =
      % Remove "." and ".." entries and kee
      Pathir - Pathyr/[Pathir isdir]). & Ke
                                                 '/Users/joh/Documents/Personal/Mentoring/NR/EEGWISE/SampleData/TD50'
dir List folder.
   dir NAME lists the files in a folder.
                                         >> dir('/Users/joh/Documents/Personal/Mentoring/NR/EEGWISE/SampleData/TD50')
                                                              dir() lists files and folders INSIDE the given path
                                                     Mon5
```

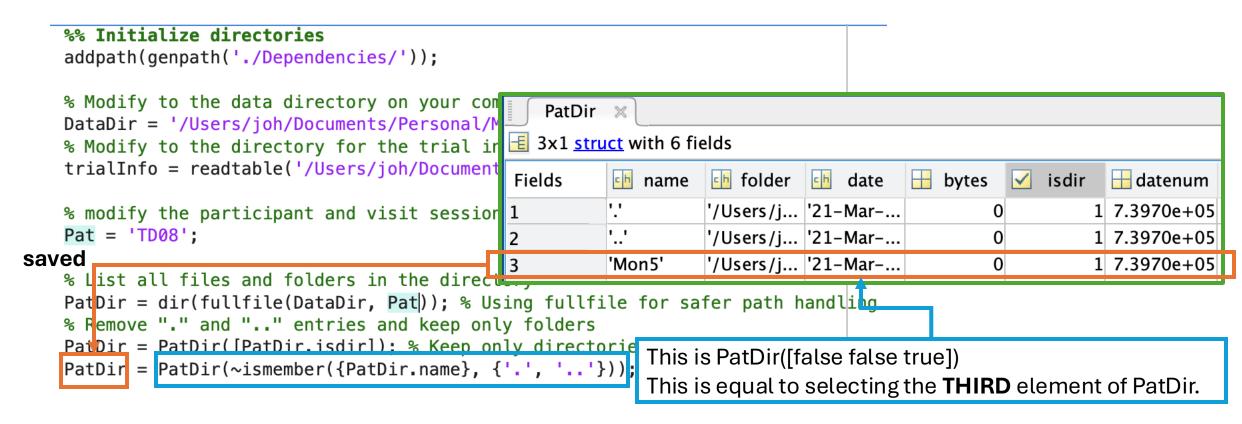


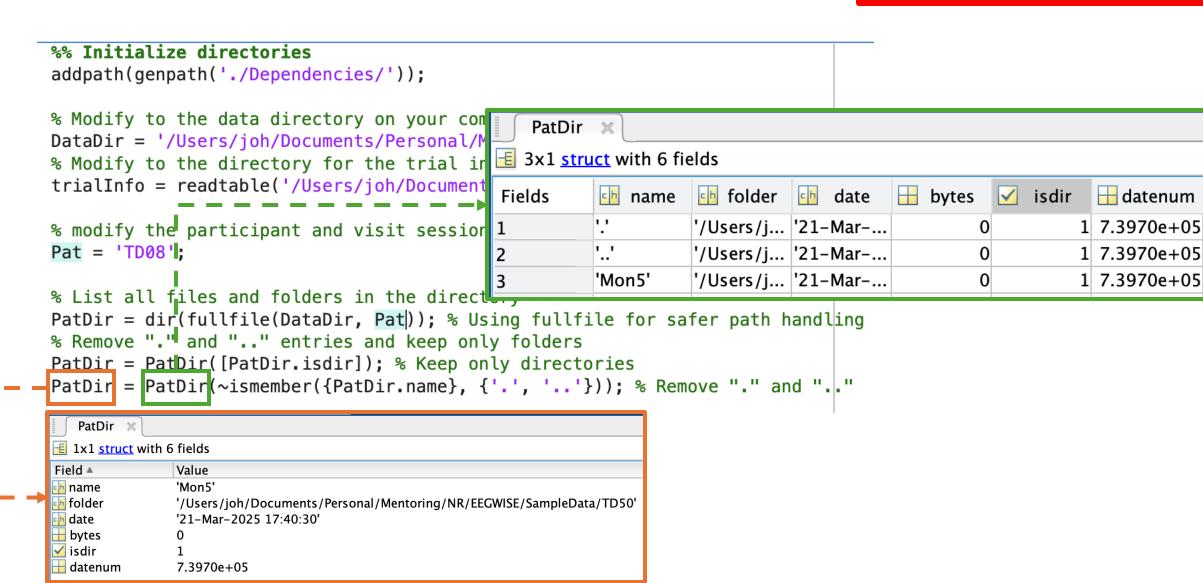


otherwise.

```
% Initialize directories
                                                          >> PatDir.name
addpath(genpath('./Dependencies/'));
                                                          ans =
% Modify to the data directory on your computer
DataDir = '/Users/joh/Documents/Personal/Mentoring/NR/EE
                                                               1 1
% Modify to the directory for the trial information on y
trialInfo = readtable('/Users/joh/Documents/Personal/Mer
                                                                             So this is iteratively checking if each
                                                          ans =
                                                                             element of PatDir.name is in {'.', '..'}.
% modify the participant and visit session for analysis
Pat = 'TD08';
                                                                             The first ('.') and the second ('..') are in
                                                                             {'.', '..'} -> returns 1 (true)
% List all files and folders in the directory
                                                                              The third ('Mon5') is not contained in
PatDir = dir(fullfile(DataDir, Pat)); % Using fullfile
                                                          ans =
% Remove "." and ".." entries and keep only folders
                                                                             {'.', '..'}. -> returns 0 (false)
PatDir = PatDir([PatDir.isdir]): % Keep only directories
                                                               'Mon5'
PatDir = PatDir(~ismember({PatDir.name}, {'.', '..'}));
                  ismember True for set member.
                     LIA = ismember(A,B) for arrays A and B returns an array of the same
                     size as A containing true where the elements of A are in B and false
```

```
>> PatDir.name
                                                                  >> ismember({PatDir.name}, {'.', '..'})
% Initialize directories
                                                                            Is 'a member of {'.', '..'}?
addpath(genpath('./Dependencies/'));
                                               ans =
                                                                  ans =
% Modify to the data directory on your comput
                                                                         logical array
                                                                   true
DataDir = '/Users/joh/Documents/Personal/Ment
% Modify to the directory for the trial infor
                                                                                 false
trialInfo = readtable('/Users/joh/Documents/
                                                                       true
% modify the participant and visit session fo
Pat = 'TD08';
                                                                       Is 'a member of {'.', '..'}?
% List all files and folders in the directory ans =
PatDir = dir(fullfile(DataDir, Pat)); % Using
                                                                fer path handling
% Remove "." and ".." entries and keep only
                                                    'Mon5'
                                                                          Is 'Mon5' a member of {':, '..'}?
PatDir = PatDir([PatDir.isdirl): % Keep only
PatDir = PatDir(\[abla ismember(\{PatDir.name\}, \{'.', '..'\})\]); % Remove "." and "."
                 ~ means not.
                 not true (~ 1) is false (0)
                 not false (~ 0) is true (1)
                 So \sim[1 1 0] = [0 0 1] = [false false true]
```





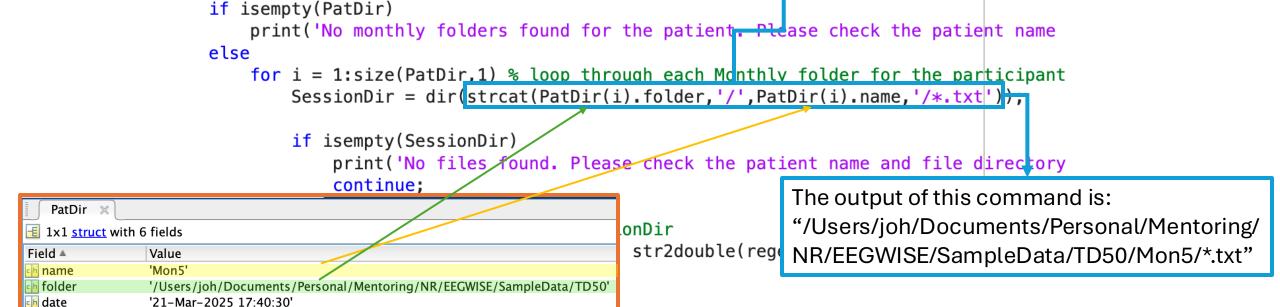
⊞ bytes ✓ isdir

datenum

7.3970e+05

While **Mon@** folder is no longer asked for, the intended folder structure is still to **KEEP Mon@** folder inside a **TD@@** folder.

i will increase from 1 to size(PatDir, 1). In our example of TD50, i will increase from 1 to 1. strcat concatenates texts.



ii) The

Sample TrialNote EEGreachingStudy.xlsx

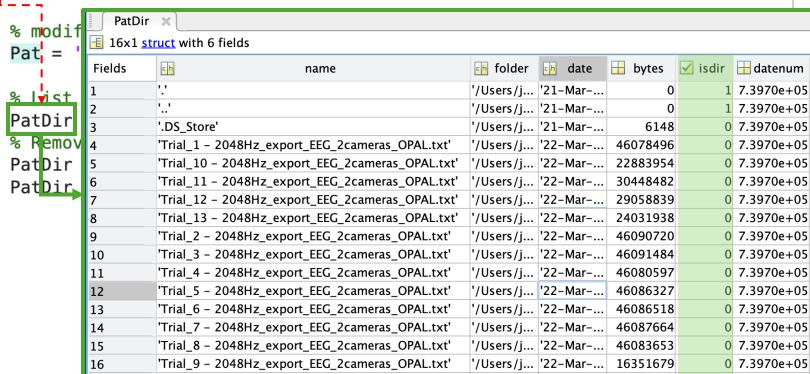
```
if isempty(PatDir)
                 print('No monthly folders found for the patient. Please check the patient name
           else
                 for i = 1:size(PatDir,1) % loop through each Monthly folder for the participant
                       SessionDir = dir(strcat(PatDir(i).folder,'/',PatDir(i).name,'/*.txt'));
Current Folder
                                                                SessionDir ×
  Name ▲
  Dependencies
                                                            13x1 struct with 6 fields
  DevelopmenalEEGProcessingToolkit
  SampleData
                                                                                                                                          bytes 🗸 isdir 📙 datenum
                                                            Fields
                                                                                                                     folder
                                                                                                                               date
                                                                                            name
     Data BatchProcessing
                                                                      'Trial 1 - 2048Hz export EEG 2cameras OPAL.txt'
                                                                                                                     '/Users/j... | '22-Mar-...
                                                                                                                                          46078496
                                                                                                                                                          0 7.3970e+05
 > TD08
                                                        in
                                                                                                                     '/Users/j... | '22-Mar-... |

√ TD50

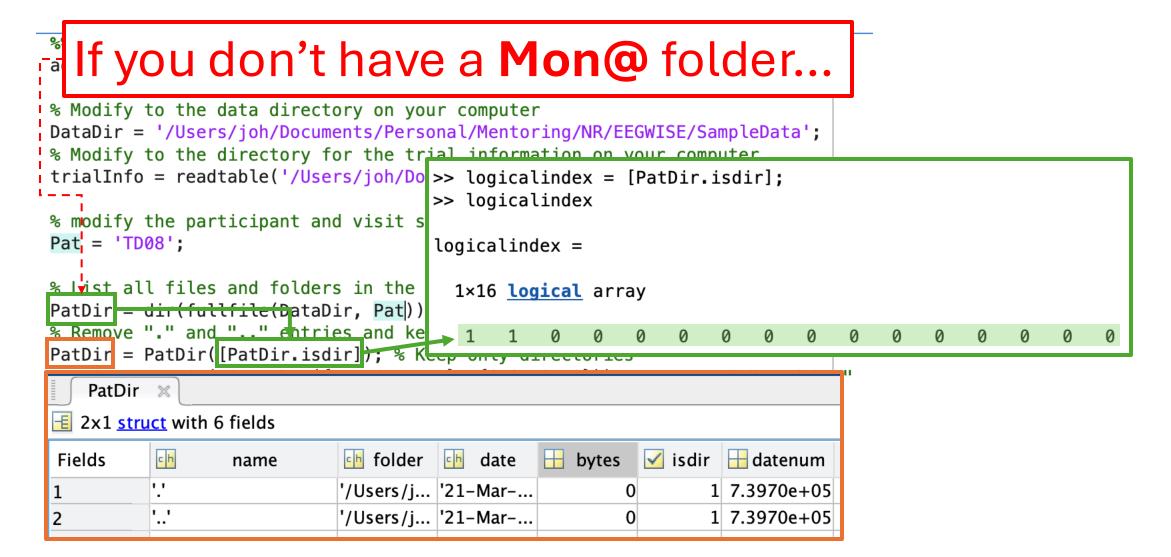
                                                                      'Trial 10 - 2048Hz export EEG 2cameras OPAL.txt'
                                                                                                                                          22883954
                                                                                                                                                          0 7.3970e+05
    Mon5
                                                                      'Trial_11 - 2048Hz_export_EEG_2cameras_OPAL.txt'
                                                                                                                     '/Users/j... '22-Mar-...
                                                                                                                                          30448482
                                                                                                                                                          0 7.3970e+05
          Trial 1 - 2048Hz export EEG 2cameras OPAL.txt
                                                                                                                                                          0 7.3970e+05
                                                                      'Trial 12 - 2048Hz export EEG 2cameras OPAL.txt'
                                                                                                                     '/Users/j... '22-Mar-... 29058839
          Trial 2 - 2048Hz export EEG 2cameras OPAL.txt
                                                                      'Trial_13 - 2048Hz_export_EEG_2cameras_OPAL.txt'
                                                                                                                     '/Users/j... '22-Mar-... 24031938
                                                                                                                                                          0 7.3970e+05
          Trial_3 - 2048Hz_export_EEG_2cameras_OPAL.txt
                                                                      'Trial 2 - 2048Hz export EEG 2cameras OPAL.txt'
                                                                                                                     '/Users/j... '22-Mar-...
                                                                                                                                          46090720
                                                                                                                                                          0 7.3970e+05
          Trial 4 - 2048Hz export EEG 2cameras OPAL.txt
          Trial_5 - 2048Hz_export_EEG_2cameras_OPAL.txt
                                                                      'Trial_3 - 2048Hz_export_EEG_2cameras_OPAL.txt'
                                                                                                                     '/Users/j... '22-Mar-...
                                                                                                                                          46091484
                                                                                                                                                          0 7.3970e+05
          Trial 6 - 2048Hz export EEG 2cameras OPAL.txt
                                                                      'Trial_4 - 2048Hz_export_EEG_2cameras_OPAL.txt'
                                                                                                                     46080597
                                                                                                                                                          0 7.3970e+05
          Trial 7 - 2048Hz export EEG 2cameras OPAL.txt
                                                                      'Trial 5 - 2048Hz export EEG 2cameras OPAL.txt'
                                                                                                                     0 7.3970e+05
                                                                                                                                           46086327
          Trial_8 - 2048Hz_export_EEG_2cameras_OPAL.txt
                                                                      'Trial_6 - 2048Hz_export_EEG_2cameras_OPAL.txt'
                                                                                                                     '/Users/j... '22-Mar-...
                                                                                                                                                          0 7.3970e+05
          Trial 9 - 2048Hz export EEG 2cameras OPAL.txt
                                                            10
                                                                                                                                          46086518
          Trial 10 - 2048Hz export EEG 2cameras OPAL.txt
                                                                      'Trial 7 - 2048Hz export EEG 2cameras OPAL.txt'
                                                                                                                     '/Users/j... '22-Mar-...
                                                                                                                                                          0 7.3970e+05
                                                            11
                                                                                                                                          46087664
          Trial 11 - 2048Hz export EEG 2cameras OPAL.txt
                                                            12
                                                                      'Trial 8 - 2048Hz export EEG 2cameras OPAL.txt'
                                                                                                                     '/Users/i... '22-Mar-...
                                                                                                                                          46083653
                                                                                                                                                          0 7.3970e+05
          Trial 12 - 2048Hz export EEG 2cameras OPAL.txt
                                                                      'Trial_9 - 2048Hz_export_EEG_2cameras_OPAL.txt'
                                                                                                                     '/Users/j... '22-Mar-... 16351679
                                                                                                                                                          0 7.3970e+05
                                                            13
          Trial 13 - 2048Hz export EEG 2cameras OPAL.txt
```

If you don't have a **Mon@** folder...

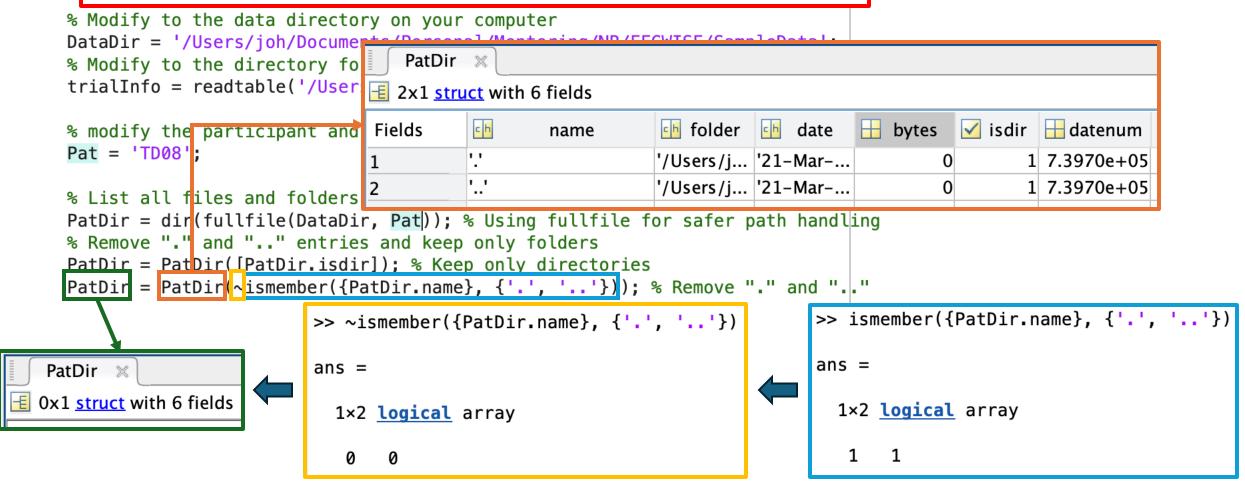
% Modify to the data directory on your computer
DataDir = '/Users/joh/Documents/Personal/Mentoring/NR/EEGWISE/SampleData';
% Modify to the directory for the trial information on your computer
trialInfo = readtable('/Users/joh/Documents/Personal/Mentoring/NR/EEGWISE/SampleData';



```
Current Folder
  Name 🛎
  Dependencies
  DevelopmenalEEGProcessingToolkit
  SampleData
    Data_BatchProcessing
    TD08
    TD50
        Trial 1 - 2048Hz export EEG 2cameras OPAL.txt
        Trial 2 - 2048Hz export EEG 2cameras OPAL.txt
        Trial_3 - 2048Hz_export_EEG_2cameras_OPAL.txt
        Trial_4 - 2048Hz_export_EEG_2cameras_OPAL.txt
        Trial_5 - 2048Hz_export_EEG_2cameras_OPAL.txt
        Trial_6 - 2048Hz_export_EEG_2cameras_OPAL.txt
        Trial_7 - 2048Hz_export_EEG_2cameras_OPAL.txt
        Trial_8 - 2048Hz_export_EEG_2cameras_OPAL.txt
        Trial 9 - 2048Hz export EEG 2cameras OPAL.txt
        Trial 10 - 2048Hz export EEG 2cameras OPAL.txt
        Trial 11 - 2048Hz export EEG 2cameras OPAL.txt
        Trial_12 - 2048Hz_export_EEG_2cameras_OPAL.txt
        Trial_13 - 2048Hz_export_EEG_2cameras_OPAL.txt
```

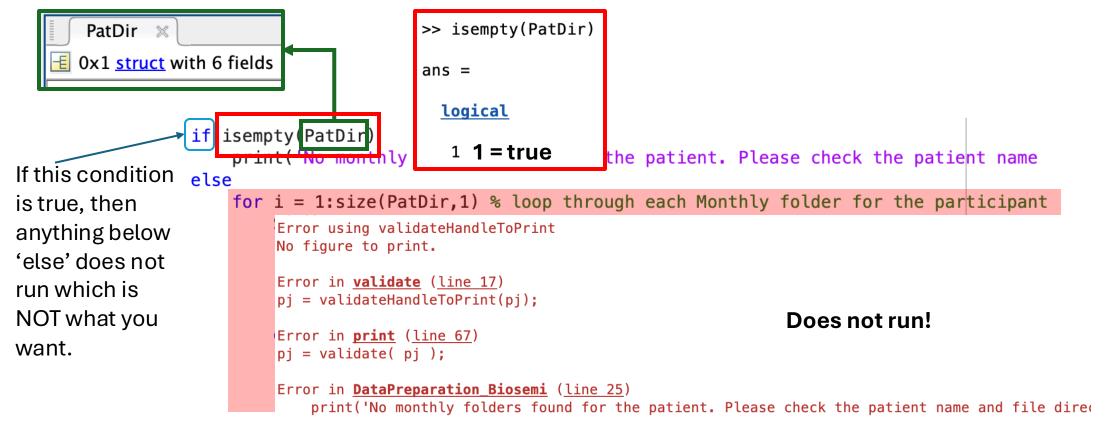






While **Mon@** folder is no longer asked for, the intended folder structure is still to **KEEP Mon@** folder inside a **TD@@** folder.

If you don't have a **Mon@** folder...



EEGWISE runs smoothly as well

