MATLAB PATH

startup.m

When MATLAB starts, it will look for a **pathdef.m** file in its startup directory. It should not be edited - leave the default MATLAB path containing only MATLAB native toolboxes. The rest should be configured dynamically, as explained below.

If a custom **startup.m** is found on the path, it will be executed:
https://www.mathworks.com/help/matlab/ref/startup.html

There are two ways to configure place the startup.m on the path:

1. Custom startup folder set via MATLAB icon: (right click on the MATLAB icon | Properties | Start in) (e.g. F:\Dropbox\Sources\Repos\matlab_config\MATLAB2014) allows controlling different paths and other settings via **startup.m** file placed in this folder.

2. Place custom startup.m to your userpath (type 'userpath' in the MATLAB command window to figure out yours).

For example, a minimal **startup.m** for automatically including all GitHub repositories (but excluding not needed internal .git folders) can be just:

```
addpath(genpath_exclude('YOUR_PATH_TO_REPOS','.git'));
```

Note: genpath_exclude.m should also be placed in the startup folder.

Example startup.m for GitHub repositoriesand Fieldtrip and NeuroElf from DAG server (Y:):

```
disp('Welcome to YOUR MATLAB VERSION, e.g. MATLAB2014a');
addpath(genpath_exclude('YOUR_PATH_TO_REPOS','.git')); %<--- !!! change
'YOUR_PATH_TO_REPOS'
addpath('Y:\Sources\fieldtrip-20200604'); % or other path to fieldtrip
ft_defaults

%
http://www.fieldtriptoolbox.org/faq/can_i_prevent_external_toolboxes_from_be
ing_added_to_my_matlab_path/
[ftver, ftpath] = ft_version;
rmpath(fullfile(ftpath, 'external', 'signal'))
rmpath(fullfile(ftpath, 'external', 'stats'))
rmpath(fullfile(ftpath, 'external', 'images'))

addpath('Y:\Sources\NeuroElf_v11_7521');
addpath('Y:\Sources\NeuroElf_v11_7521\add_dag_ne_pipeline');

dbstop if error
```

See also https://github.com/igorkagan/matlab_config for the following example that includes genpath_exclude.m:

```
disp('Welcome to MATLAB2014');
set_sources_path;
edit;
EditorMacro('Alt-Control-h', @ig_createHeaderComment_dag);
dbstop if error
```

The function **set_sources_path.m** can be something like the one below, to add all repositories but exclude not needed internal .git folders:

```
addpath(genpath_exclude('F:\Dropbox\Sources\Repos','.git'));
```

pathdef.m

When MATLAB gives an “eval...” error on startup, permissions for pathdef.m are screwed up, see: https://www.mathworks.com/matlabcentral/answers/307356-why-do-i-get-an-error-using-eval-undefined-function-workspacefunc-for-arguments-of-type-struct

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