

MATLAB helpful hacks

Index Non-Empty Cells in Cell Array

<http://www.mathworks.com/matlabcentral/answers/42283-index-non-empty-cells-in-cell-array>

```
x = {1,[],[],[]}; find(~cellfun(@isempty,x))
```

startup.m

When MATLAB starts, it will look for a **pathdef.m** file in its startup directory.

Start up folder (in the MATLAB icon | Properties | Start in) (e.g. D:\Sources\MATLAB) allows controlling different paths and other settings via startup.m file placed in the folder, e.g.:

```
disp('Welcome to physiology analysis...');
set_sources_path; % set additional paths dynamically, e.g.
% addpath(genpath('D:\Sources\MATLAB'));

cd('F:\Data');
edit;
EditorMacro('Alt-Control-h', @createHeaderComment_dag);

dbstop if error
```

Exiting loop (for / while -> pause) gracefully

(i.e., without "ctrl-C" abort)

For example, when paging thru trials:

```
figure('Name','Plot trial','CurrentChar',' ');
for k = 1:length(trial),
    ...
    drawnow; pause;
    if get(gcf,'CurrentChar')== 'q', % pressing "q" will exist the loop, make
sure focus is on the figure!
        break;
    end
    clf;
end
```

Finding indices between two vectors of start and end indices, using arrayfun

Assume we have two vectors, repeated_segments_start_idx, and repeated_segments_end_idx, and we

want to find all indices between each pair.

```
idx =  
[repeated_segments_start_idx(segments2remove_idx):repeated_segments_end_idx(  
segments2remove_idx)] % DOES NOT WORK, OF COURSE!  
  
idx =  
cell2mat(arrayfun(@colon,repeated_segments_start_idx,repeated_segments_end_i  
dx,'UniformOutput',false)); % WORKS!
```

Maximize figure window

```
set(gcf,'units','normalized','outerposition',[0 0 1 1]);
```

Plot an "imagesc" with transparent NaNs

```
h = imagesc(X,Y,C);  
set(h,'alphadata',~isnan(C));
```

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