

# 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
```

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