Programming in MATLAB
Advanced Course
PSY5223
Research Master in Cognitive Neuroscience
Session 1 Assignment

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Download the file `Fig_example.fig` and open it in MATLAB (with the function `open`). The figure consists of 4 subplots. The subplots have been generated starting from `plot A` and ending with `plot D`. Using graphic objects handles, `gcf`, `gca`, `findobj`, `get` and `set`, modify the figure:

- PLOT A: modify the `linewidth` of the two lines to 2. Moreover, change the color of the first plot (which is the first?) into black and of the second into red. Resize the axes changing `Ylim` to `[0 2*pi]`.
- PLOT B: make the axes square. Moreover, change the marker into `diamond`, and the line width to 2. Extract the data `Xdata` and `Ydata` from the line, and plot each of them separately in another figure. How do they look like?
- PLOT C: Remove the `Facecolor` from the plot. Remove `XTick` and `Ytick`, together with `Xticklabel` and `Yticklabel`.
- PLOT D: Change the width of the line. Change the marker into `Pentagram`, the `MarkerEdgeColor` to yellow and `MarkerFaceColor` to black. Modify the title into: `'Plot D: This is a wonderful helix'`. Change the camera orienatation.