A Simple Guideline for MPLOT

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Description

MPLOT aims to generate publishable quality figures for visualizing results.

Matlab files
mFig.m - initialize a figure
mPlot.m - plot/output a figure
demo.m - demo the usage

Features in version 1.1.0
1. Support output eps files
2. Support Latex in text (i.e., label, legend, and title)
3. Support plotting curves in real/log scale
4. Support drawing bar diagram

How to use

1. **Process the raw results into <u>row</u> vectors**
   - x (y) are input (output) vectors
   - load vectors from external files
     - save / load
     - fopen / fprintf / fscanf / fclose
2. **Initialize a figure structure**
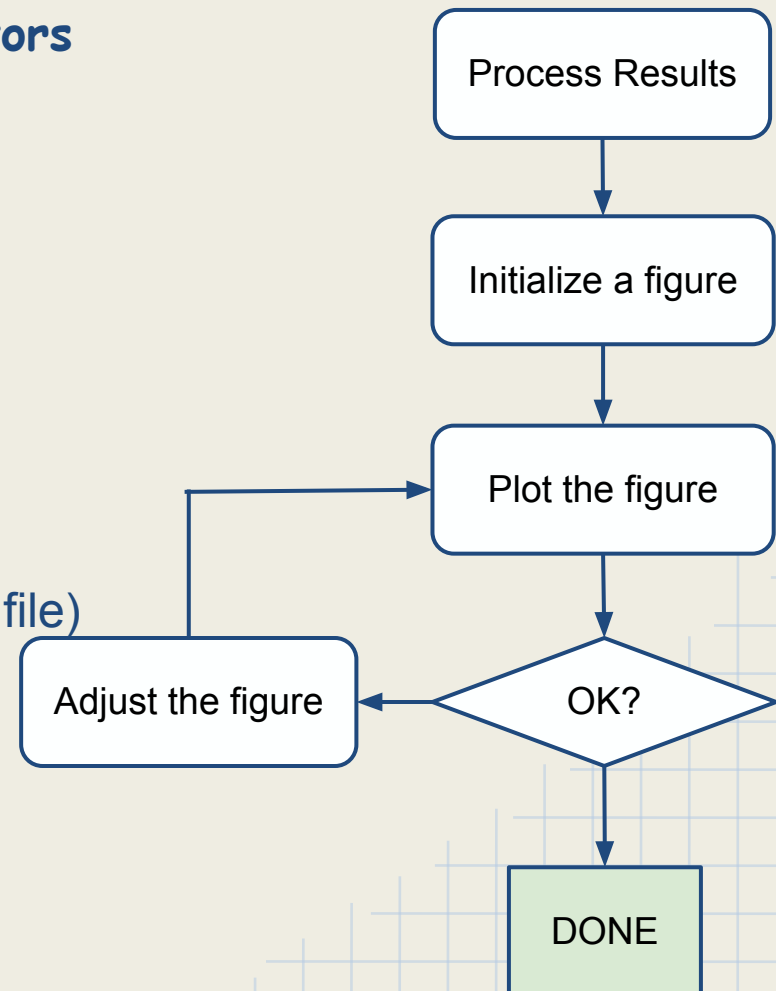   - c = mFig(x, y, xl, yl, marker, legend)
   - "help mFig"
3. **Plot the figure**
   - mPlot('plot',c, 'file')
   - Observe the eps file (NOT matlab fig file)
   - "help mPlot"
4. **Adjust figure structure**
   - c.ttl: title of the figure
   - c.lpos: position of legend
   - c.xlm (c.ylm): range of plotted x (y)
   - c.xtk (c.ytk): ticks of x (y) axis
5. **Replot the figure**

Process Results

↓

Initialize a figure

↓

Plot the figure

↓

OK? → Adjust the figure

↓

DONE

Hack into the code

- Adjust the size/type of font in mFig.m
  - Make the size as large as possible
  - Make the font the same as that of the context

- Implement your new plotting function in mPlot.m

- Report bugs to **arik.cj@me.com**