



08: matplotlib - plotting in python

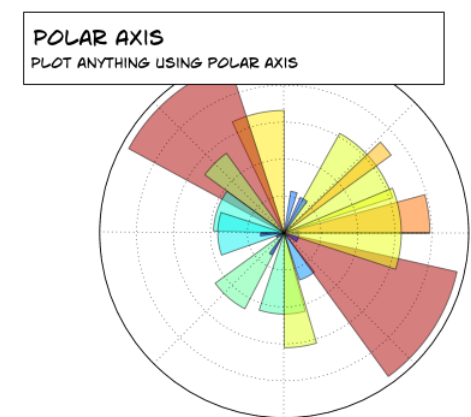
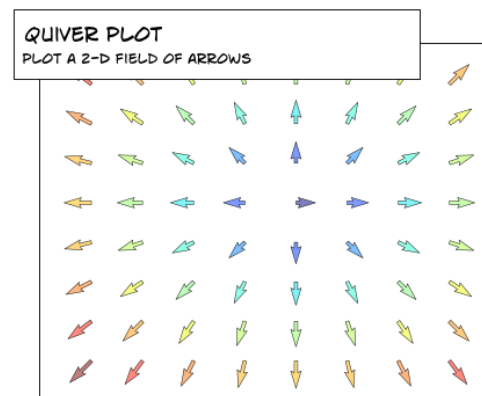
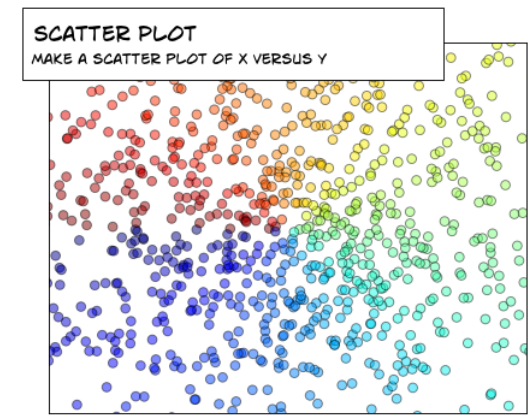
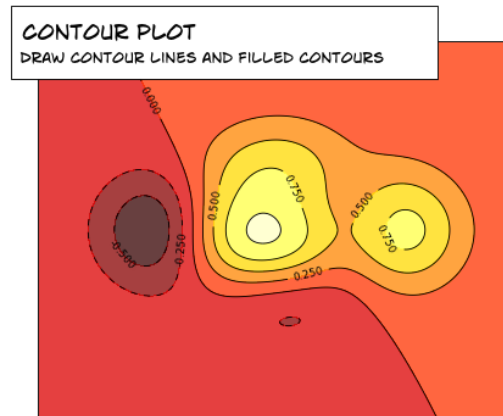
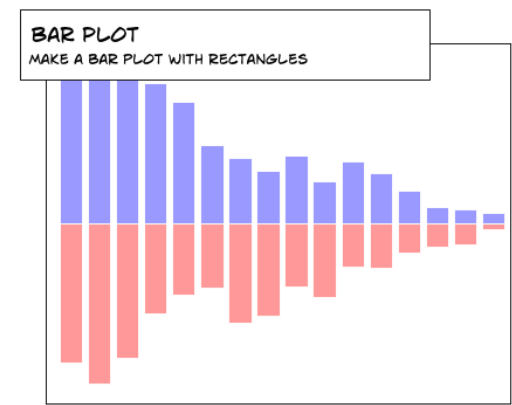
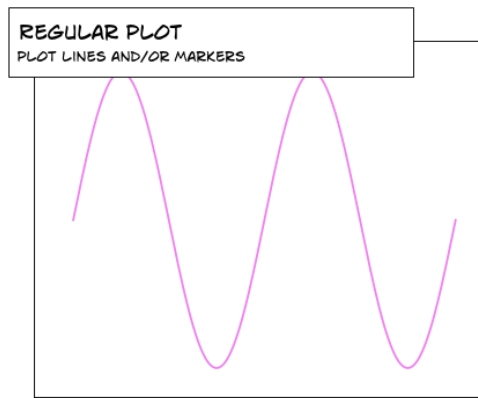
<https://github.com/matthiaskoenig/itbtechtalks>

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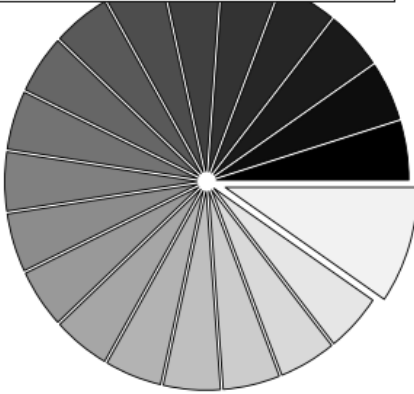
matplotlib

- python 2D plotting library
 - publication quality figures
 - wide variety of formats
 - usable in: scripts, notebooks, web application servers
- Wide range of plots
 - plots, histograms, power spectra, bar charts, error charts, scatterplots, ...
- Simple plotting
 - pyplot module provides MATLAB-like interface
- Power users
 - full control of line styles, font properties, axes properties, ...



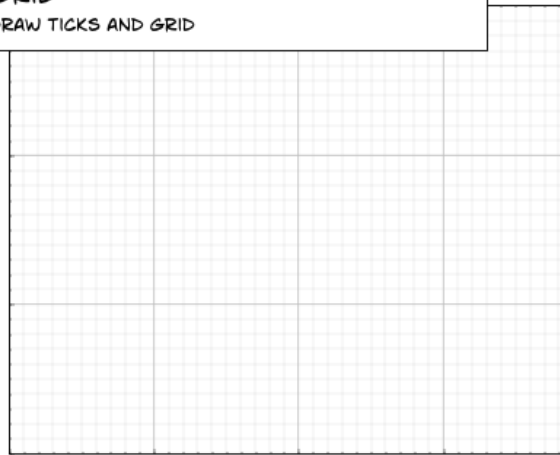
PIE CHART

MAKE A PIE CHART OF AN ARRAY



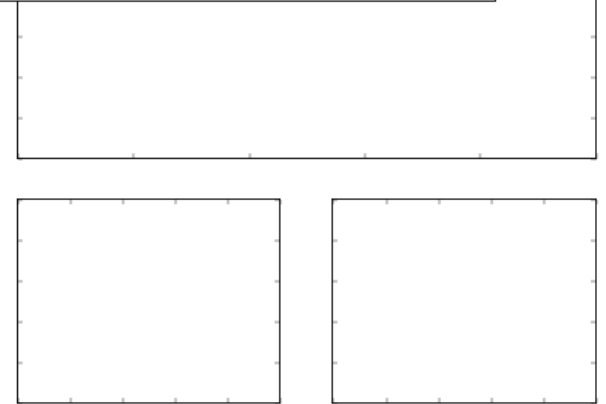
GRID

DRAW TICKS AND GRID



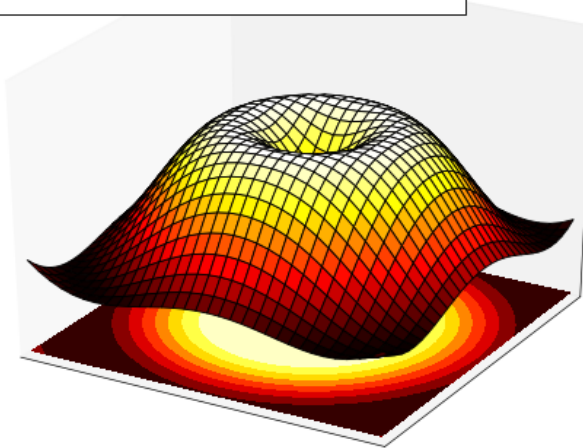
MULTIPLY

PLOT SEVERAL PLOTS AT ONCE



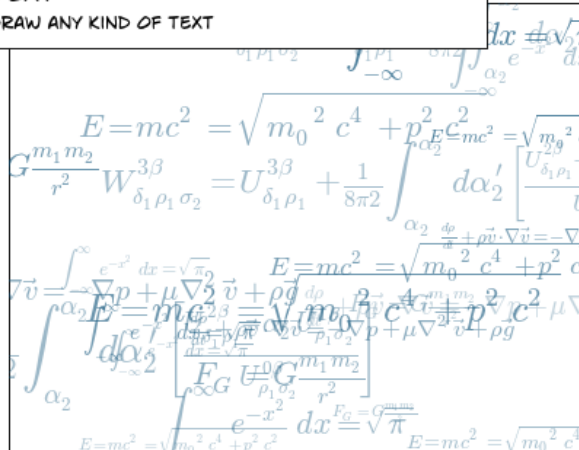
3D PLOTS

PLOT 2D OR 3D DATA



TEXT

DRAW ANY KIND OF TEXT



IMSHOW

DISPLAY AN IMAGE TO CURRENT AXES

