

Python - Matplotlib Cheat Sheet

by DarioPittera (aggialavura) via cheatography.com/83764/cs/19841/

TO START

conda install matplotlib
import matplotlib.pyplot as plt
to print graphs in notebooks
%matplotlib inline

BASICS		
FUNCTIONAL METHOD		
plt.plot(x,y)	simple line plot	
-plt.xlabel('str')	set x label	
-plt.ylabel('str')	set y label	
-plt.title('str')	set title	
plt.show()	show plot	
plt.subplot(r,c,1)* plt.plot(x, y) plt.subplot(r,c,2) plt.plot(y, x, 'g*-')	create multiplots	

OBJECT ORIENTED METHOD (more control)

fig = plt.figure()	create canvas
ax = fig.add_axes([0,0,1,1])	create axes*
ax.plot(x, y, 'b')	create plot
ax.set_xlabel("str)	set x label
ax.set_ylabel('str')	set y label
ax.set_title("str)	set title

** add more axis to have more figures

fig, ax = plt.subplots(r,c)*	subplots
axes[0].plot(x,y)	create pl ax1
axes[1].plot(x,y)	create pl ax2
axes[0].set_title('str')	set plot 1 title
axes[1].set_title("str)	set plot 2 title

subplot() command requires to specify the number of row and column we want to print the plots, and the third parameter specify what of the graph we are going to handle.

axes: ([left, bottom, width, height])

fig, axes allow you to auto-manage axis, you don't have to create them. Axes, now, will be an array of axis. We could use for loop to populate labels on axis.

SIZE, SAVE, LEGEND	
plt.tight_layout()	avoid overlap
plt.fig(figsize=(x,x))	set figuresize
plt.fig(figsize=(x,x), dpi=x)	set dpi
fig.savefig("name.png")	save figure
fig.savefig("name", dpi=200)	and set dpi
ax.plot(x, y, label="str")	set legend
ax.legend()	show legend
ax.legend(loc=0)	best
ax.legend(loc=1)	upper right
ax.legend(loc=2)	upper left
ax.legend(loc=3)	lower left
ax.legend(loc=4)	lower right

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ES

fig = plt.figure()	
$ax = fig.add_axes([0,0,1,1])$	
ax.plot(x,y	
color='#xxxxxx',	set color
lw=x,	set linewidth
alpha=x,	set alpha
ls=",	set linestyle
marker=",	set markertype
markersize=x,	set marker size
markerfacecolor=",	set mark color
markeredgecolor=",	set external col
markeredgewidth=x)	set marker wdt
ax.set_xlim([0,1])	set x axes limit
ax.set_ylim([0,1])	set y axes limit
ax.plot(x, y, 'r')	MATLAB style



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