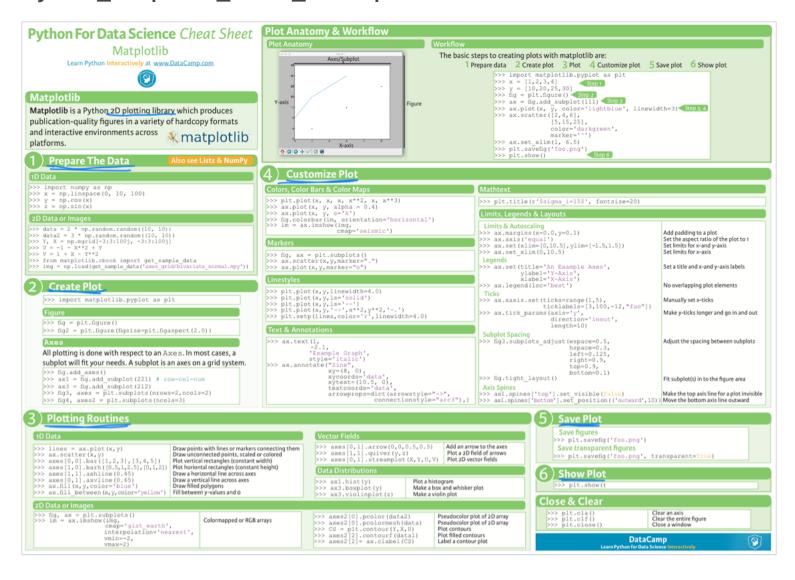
Python_Matplotlib_Cheat_Sheet.pdf



1-D dates
import number as up is a tuble of 3 values that is possed as

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arguments to number tunition into linguage.

X = np. Linspace (D in.) X = np. Linspace (0,10,100) -> 0 (Start) and 10 (end) of interval INTERIMENTE Used to create 1-dimensional array of ford. evenly spaced numbers over a specified internal. In this case it generate 100 evenly spaced values between 0 to 10 inclusive. Y= 74. cos(x) =) It creater an array 'y' containing the cetine of each name in 'x' using the 'cos' function prom numby. 2=np. Sin (x) (reale gray'z' centainfacting Sine of each nature in 'x'
wing 'Sine' function from Mimpy. - details lox 10 numby array of random of and 2. 2-D Data or Imagesdates 2 := 3 * np. mandom-rundom ((10,10)) = numbers between 0 and 3.

V, X = np. magaid [-3:3:100: -V, X = np. ngerid [-3:3:100], -3:3:100j] - two 100×100 number oranges that together create a grid of points langing from -3 to 3. U= -1-X**2+Y -scalculate value of Vard V at each point on grid. V = 1 + X - Y * * 2from matplatlib. cbook import, get_sample_data ing = np. load (get_sample - dots ('axes_goid | bivariate_normal·npy')

Create the Pot-

impost modplettib. pyplot as plt rester figure object with default fire and configuration. I creates a figure object with a specific aspect rates of 2:1, fig = plt. figure () fig = pll. figure (figsize = pl+. figs pect (2.0)) which means width of the height. This is achieved by parsing the 'figaspect' demonster with a value of 2.0 to the 'frgsize' assument. Axes Creates a new set of axes within the figure. ax1 = fig = add_sulphot (221) -> creater a sulphot in a 2x2 grid layout, placing
it in the first position (top left) a x 3 = fig. add_Sulphot (212) - creates another subplot in 2x1 good layout jg3, axes = plt. Subplots (nrows = 2 neals = 2) Placing it in Second position (bottom) fig4, a xes 2 = plt. sumplets (ncds = 3) bet-subplots () is a function that relieves a figure object and an array of area object. The first argument based to the function specifies the number of 2012s of Subpliets, and Second argument specifies the no- of columns of Subplots. a grid of 2 nows & 2 columns, resulting is 4 Subplets in total - The fundion relitions two object: 'fig' and 'axes'. I fig' is a reference to the figure object, and 'axes' is an arroy of axes object, with dimensions '(nrows, n cols)'

-> This code creates a figure with three Subplates

corranged horizontally in one 2012. The first supplet is assigned to variable 'axes?' and other two supplets are created but not assigned to any mariables.

To modify the wide to create only one Subject: fg, ares = plt. subplot (nous =1)

3) Plotting Routines:

platting soutinne is a took used to create visual seprenditions of data that can aid in the analysis and interpretation of the class.

1D Data- period of data over a period of

lines = ax. plat()

Lines = ax. Plattery)

ax. Scatter (x,y) switholive relationship between two variables.

ax. Scatter (x,y) she cities the x. coordinates or positions where the bars provided axis.

axes [0,0]. bar ([1,2,3], [3,4,5]) repetities the heights of bars to be plotted. The first bar height 3, securil's higher 4, ordinates of axes [1,0]. barh (co.5,1,2.5], [0,1,2]) squist, 12.5) Acution y-wordinates of the bars. (0,1,2) she there I she bars. (0,1,2) she there is she bars. axes [1,1] - axhline (0.45) 34 bar length 2. axe [0,1] · axv line (0,69 axhline is a method of 'Axes' class
in matphalleb that creates horizontal

ax. fill (x,y, wher = 'blue') line. 0.45 Specifies Y-position

ax. fill between (x,y,color = 'yellow') is horizon tou line.

9 0.65 Specifies x-position of nextical line.

ax. () is a method of 'Axes' class.

y is array of x-condinates that define the Shape to be filled.

y is any of y-condinate, when specifies the color.

2-D Dots or Images.