Graphing with matplotlib (part 1)



Logistics

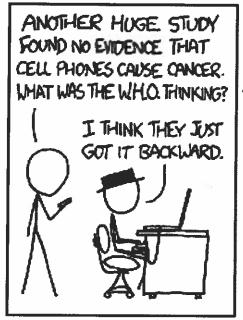
29	30	31	1	2
lecture 17 projects	HW 7	lab 10 - data viz projects		lecture 18 graphing
Quiz 15				Quiz 16
5	6	7	8	9
lecture 19 graphing	BTU Lab Open-Hack night	lab 11 - graphing	CP 1	lecture 20 data viz
Quiz 17	6pm ATLAS 113			Quiz 18

To-dos: Quiz 17, Data visualization project

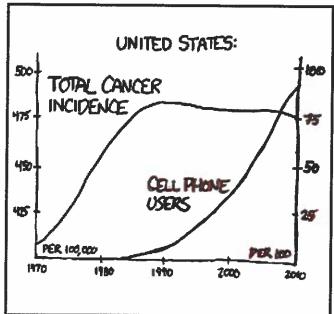


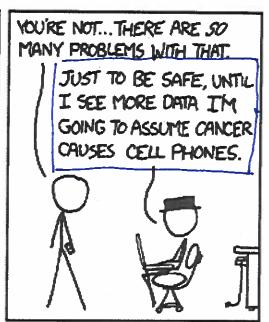


Correlation vs. Causation

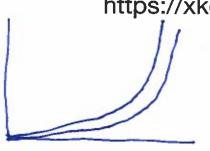








https://xkcd.com/925/



(orrelated: smoking t alcoholism

Causation: sucking t lung cancer



Correlation vs. Causation

· correlation: Statistical meaure of the size t

direction of a relationship between

2 variables. | / positive !

causation:

When one event/trend is the regult of another one

matplotlib

*matplotlib inline # makes your graphs appear in your notebook import matplotlib.pyplot, as plt,

giving the module a nick name

call functions as plt.function(parameters)

none of the ones you need deal with return values

1) graph your data plt.plot([1,2,3],[10,8,6])

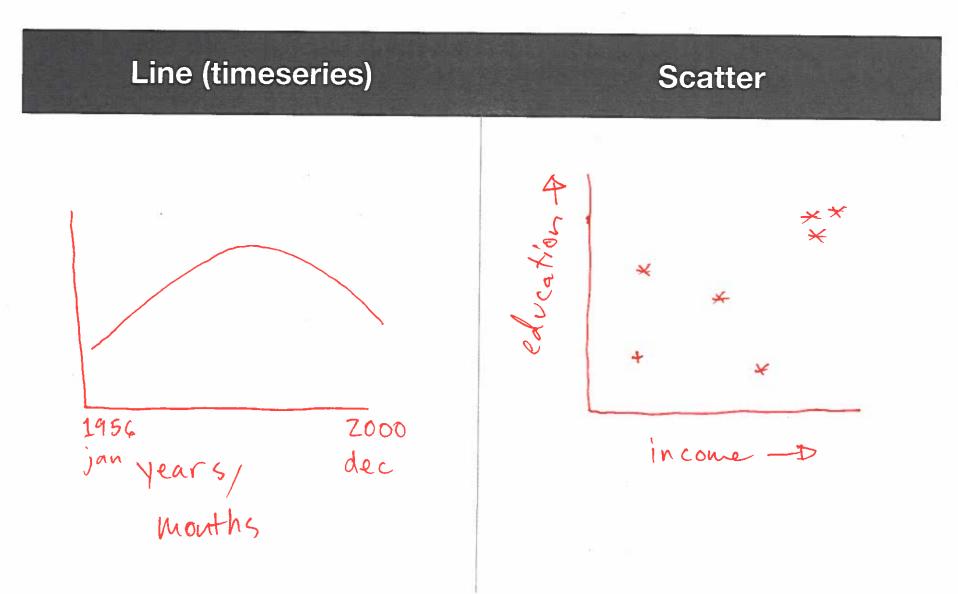
2) show your graph

plt. Show()

see notebook for code examples and explanations of optional parameters



Graphs





Graphs

