

intro

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outline

why data science?

stata v sas v r v python

python: fun and useful

[*] bonus—data sources [skim quickly; look at home more]

introductions

- <https://theaok.github.io> and my goog sch
- what data and vis i have been using
 - eg py map in livability paper, scatterplots
- if your res is similar, i can help more
 -
- you? (see if others overlap: collaborate!):
 - research interests
 - software
 - and data?

outline

why data science?

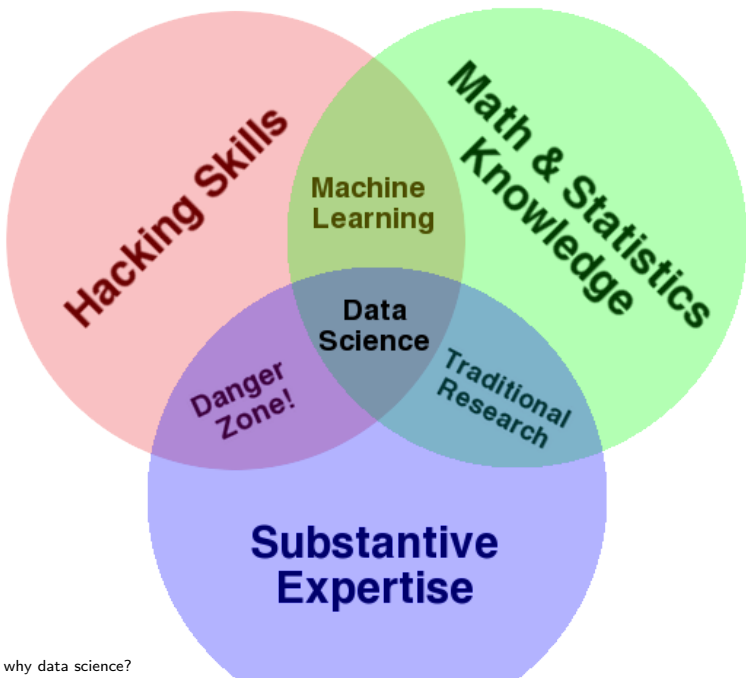
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data revolution!!

- ◇ most jobs/tasks require or benefit from programming
- ◇ qualitative data (pictures, text, etc.) are just rich quantitative data and can be analyzed like quantitative!
- everything can be quantified or not? any examples of non-quantifiable things ?



dat sci skills

- <https://www.kdnuggets.com/2023/04/top-19-skills-need-know-2023-data-scientist.html>

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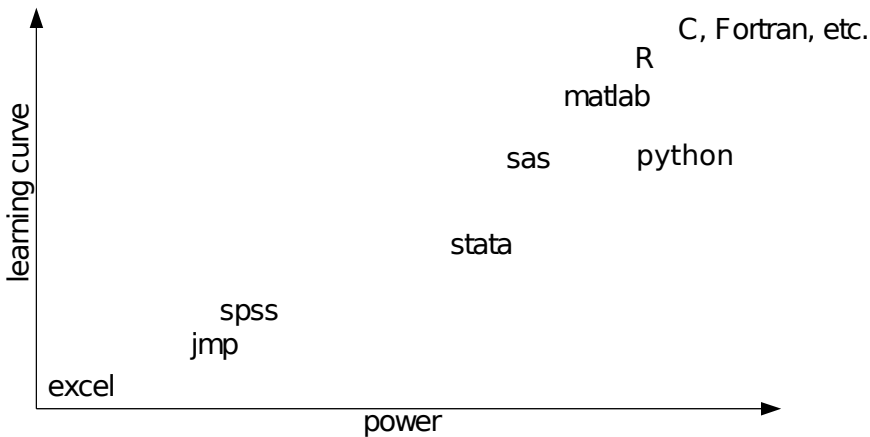
sas

spss



R

which one?



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A simple stick figure is shown in mid-air, with its arms and legs outstretched as if it is flying or falling. The figure is positioned in the upper right quadrant of the frame.

PYTHON!

YOU'RE FLYING!
HOW?





No thanks!

We are
too busy

general references/tutorials

- we'll skip a lot of stuff, for more see:
- com sci, quick, readable! `http://code.google.com/edu/languages/google-python-class/`
- looks fun `https://automatetheboringstuff.com/#toc`
- for soc sci, comprehensive (cool but dated :())
`http://nealcaren.github.io/python-tutorials/`

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data sources

- ◇ <http://icpsr.umich.edu>
- ◇ <http://www.worldvaluessurvey.org/>
- ◇ <https://gss.norc.org/>
- ◇ <http://www.thearda.com/>
- ◇ <https://www.pippanorris.com/data>

more data sources

- ◇ `http://www.measureofamerica.org/`
- ◇ `http://usa.ipums.org/usa/`
- ◇ `https://international.ipums.org/international/`

“non-traditional” data

- ◇ `http://dvn.iq.harvard.edu/dvn/dv/patent`
- ◇ `http://www.trustlet.org/wiki/Trust_network_datasets`

happiness data

- ◇ `http://www.bmj.com/content/337/bmj.a2338.full`
- ◇ `http://www.wefeelfine.org/`