

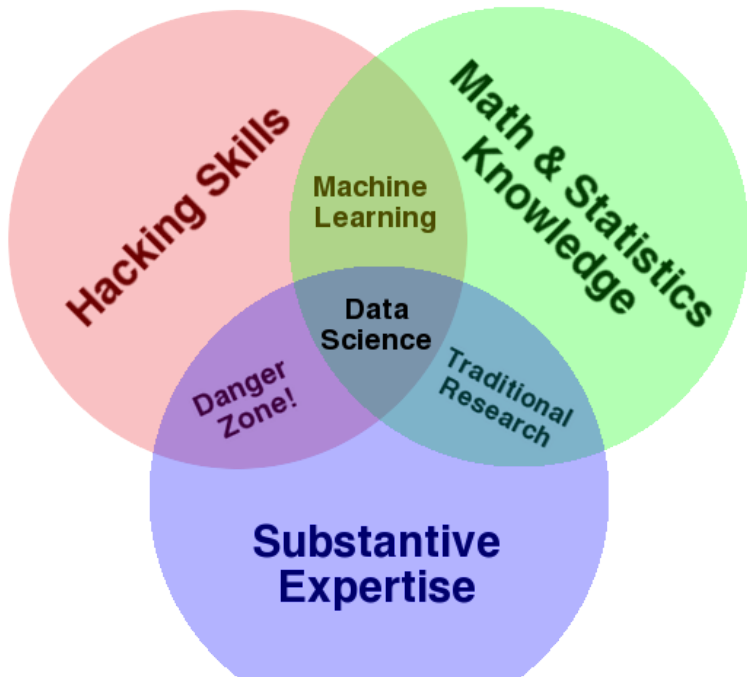
# class wrap up

adam okulicz-kozaryn

`adam.okulicz.kozaryn@gmail.com`

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substantive exp! the only way to beat CS/math



## get into flow with Python!

https:

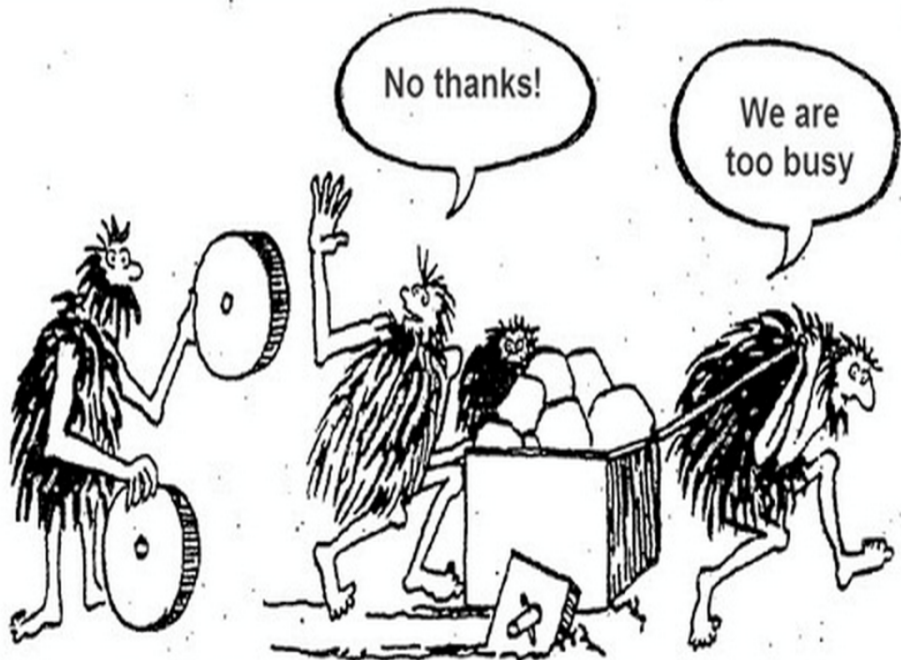
[`//en.wikipedia.org/wiki/Flow\_\(psychology\)`](https://en.wikipedia.org/wiki/Flow_(psychology))

A simple stick figure is shown in mid-air, with its arms and legs outstretched as if it is flying or falling. The background is filled with dense, diagonal hatching lines.

PYTHON!

YOU'RE FLYING!  
HOW?





caveman with wheels got Python; busy guys use Excel

## super important! remember this!!

- publishing (and maybe conferences) is
  - \*the only way\* to get in touch with people exactly in your area
- there's just a handful of them,
  - almost never at you university, sometimes at a conference
  - usually at a journal where you submit;  
(if you pick the right one, almost always at a journal)
- this is \*the only way\* to take your work to next level!!
  - takes time; start now; otherwise may never make it
- and can just put online, eg ru soar or arxiv etc

## likewise for non-academia: for-profit and non-profit

- get in touch with ppl who do similar work
- in general: make it public, show to stakeholders
- the worst thing you can do is to keep it in a drawer
- you get ideas and directions
- become part of decision making
- find mistakes and misconceptions

## GIGO: dont trust anybody! esp ur org

- major ones like census:
  - many use it and found most mistakes and fixed
- but local organization's data:
  - very few use it so very likely mistakes and problems
- in addition to vis do pandas/geopandas df:
  - info()
  - value\_counts(dropna=False)



## feedback please!

- pls do evaluations and add comments in text box
- im reworking this class
- really would help to know what worked and what didnt
- can also email me the comments directly
- any method any comments much appreciated!

## future research

- i'm into Python and data
- always happy to discuss them
- keep in touch!