

## Admin

- Lecture Qs: bit.ly/as2500-lecture-q
- HW4 out Fri 3/14
- mini preso grades out
- L254 next Mon 3/17
- proposals graded soon!

## Agenda

1. Google Colab
2. P2nd2s
3. Python

## 1. Google Colab (need 2 google account)

↳ IDE, alternative to PyCharm

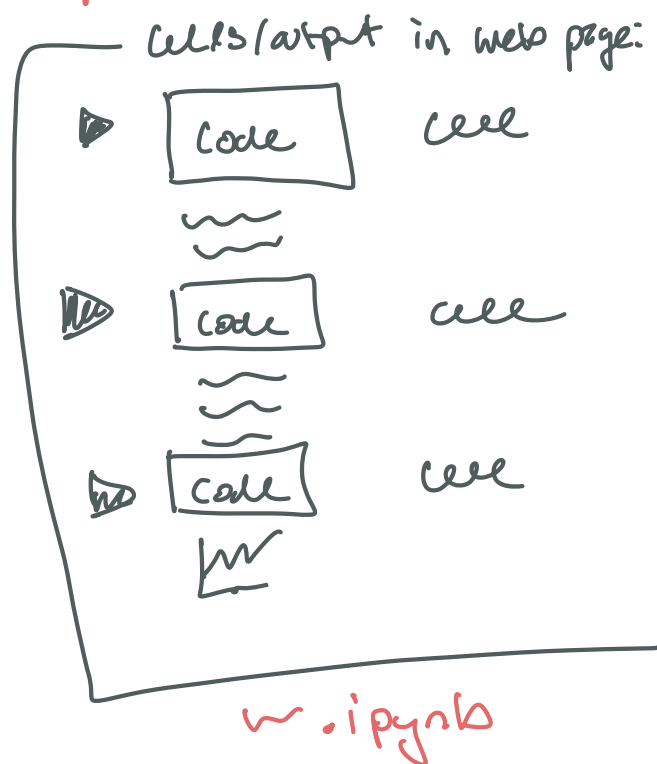
- similar to Jupyter Notebook
- used early on in project development / exploration

Similarities b/w Notebook + Colab:

- combines code, output/text, viz
- code is broken into cells
- output/text from: `print()`  
variable (value is displayed)
- no main, few functions  
(cells are self-contained)

Differs notebook / colab:

- Colab on server, jupyter local
- Colab: need internet, can collaborate,  
nothing to install, file systems
- jupyter: no internet, need to install, access to local files



## Approach to notebook coding:

- every cell has its own scope
  - ↳ better to be self-contained
- few functions
- cells should be small
- output can be unnoticeable check-in
- usually, inline comment (#) at top of cell

▶ `x=5`  
`x+=7` cell

▶ `x+=3`

• does this cell know `x`?  
only if gray cell has been executed

▶ `x=`  
`x`

• output = value in `x`

## next: practice w/colab

- colab.research.google.com
- create a new notebook
- write/run a cell
- share w/a friend, add to each others' code

→ l2nyd@gmail.com

- read in files:
  - ↳ upload (disappears when window closes)
  - ↳ mount a drive (lives forever in gdrive)

## 2. Panda >

admission  
tuition

→

Before...

- read into 20 lists (both csv files)
- correlation adm → tuition?
- conversions: '18.22' → 18.22

'\$60,312.18' → 60312.18  
extra clean up: \$ and,

- Plotting



normalized.



Pandas: Python lib  
for data processing

- functions to do stuff we need
- what do we need?  
look it up :)
- OK in Hw going fwd

bit.ly/pandas-sect2

c