Social Data Science: Machine Learning & Econometrics

Exercise class 6

March 27, 2020

Todays quick warmup

Q: Write a *decorator* retry(n) that when applied to a function (e.g. a scraper) retries a failed function call up to n times.

Apply your decorator to the following function

```
from random import uniform

def this_might_fail():
    c = uniform(0,1) > 0.8
    if c: return 'Success'
    raise ValueError('c to small')
```

Todays quick warmup - solution

Functions can return functions! We need 3 layers because we want to pass the argument n to the nested function.

- ▶ Add a time.sleep(0.2) and use this for your scrapers!
- Decorators add functionality around the function they wrap.

Last lecture in a nutshell

- Install geopandas and play around, it is brilliant software.
- ► Geographical boundaries can be a source of "random" variation. Especially if boundaries are placed arbitrarily.