

# GitHub Pull Requests, Geocoding, Reverse Geocoding

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# Goals

- Familiarity with GitHub pull requests across forked repositories
- Practical example geocoding
- Team exercise to build a tool

# GitHub Exercise

- Merge the pull requests for the national address database

# Python Exercise1

- **Geocoding**: addresses (like a street address) into geographic coordinates
- Take a look at the [code/geocoding/fcc\\_area\\_query](#) as an example
- What can you do to improve it and make it more generalizable?  
(Individual assignment, 5 minutes)

## Python Exercise 2

- Create a script, using the [geocoding/fcc\\_area\\_query](#) as an example, but for reverse geocoding
- Include an option to randomly sample points in the shapefile until a result is returned

# Endurance Exercise

- For the county you have selected, use the tool developed together and reverse-geocode so that at least there is one address per block
- Due **July 17**