Building "Geographic Data Science..."

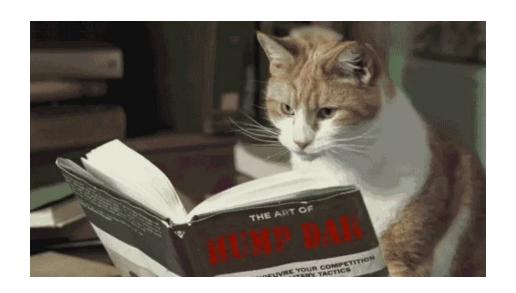
Dani Arribas-Bel [@darribas]



The Alan Turing Institute



We have a book!



via GIPHY

Almost...



via GIPHY

Coming in 2021 but...

Coming in 2021 but...

- ... you can already:
 - https://geographicdata.science
 - launch binder
 - https://github.com/gdsbook/book



The Authors







@sreyog

Serge Rey

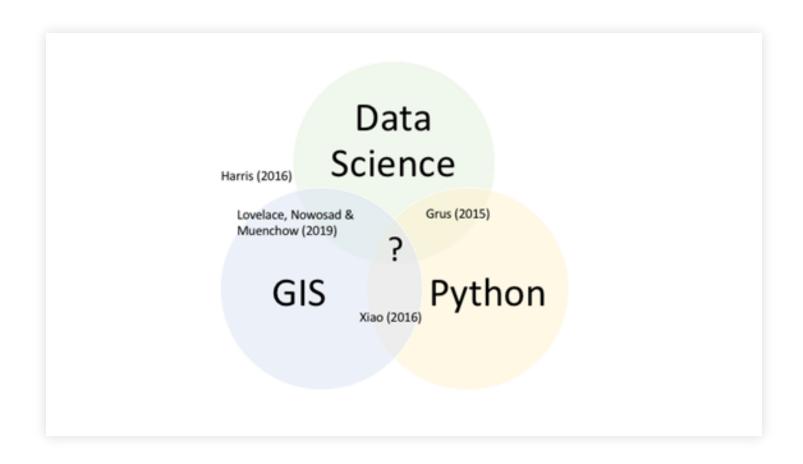
@darribas

Dani
Arribas-Bel

@levijohnwolt

Levi Wolf

The Book



This Talk

- Why
- What
- How

Why

Data, data, data

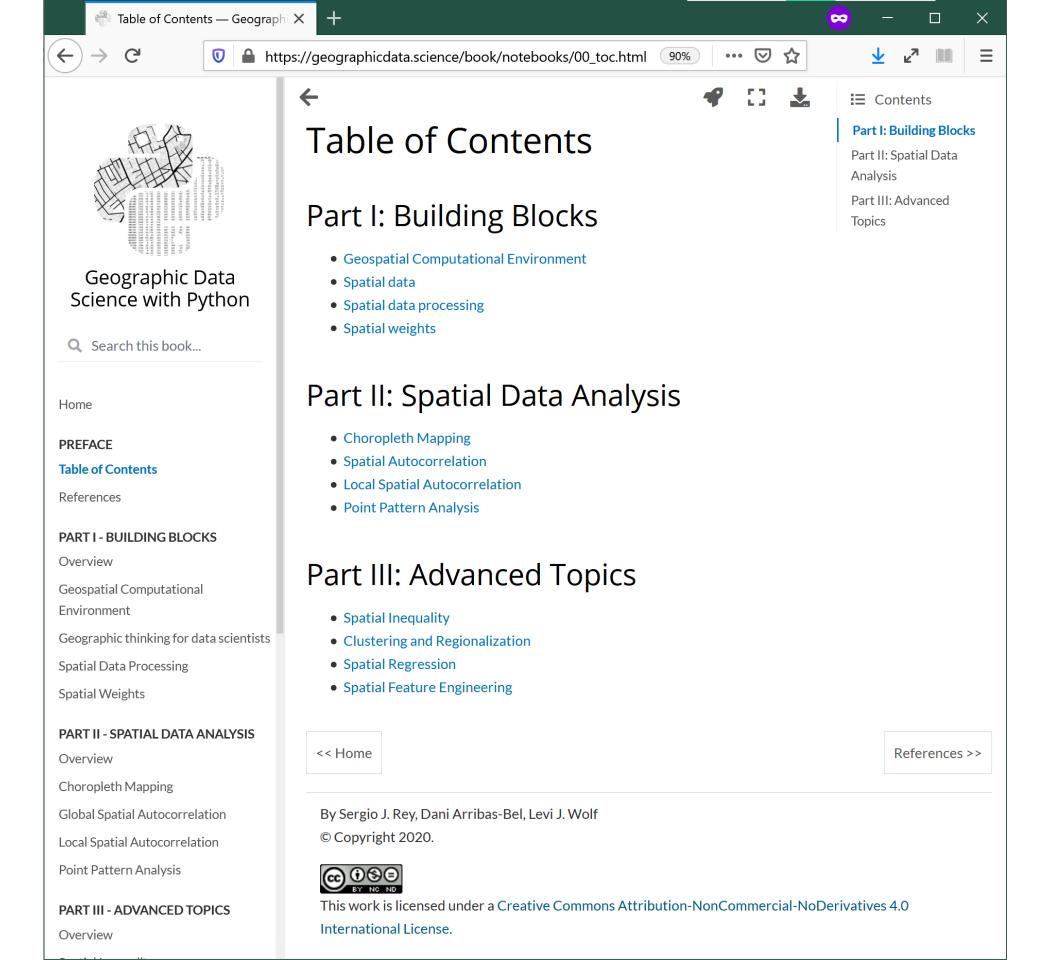
Data Science

• • •



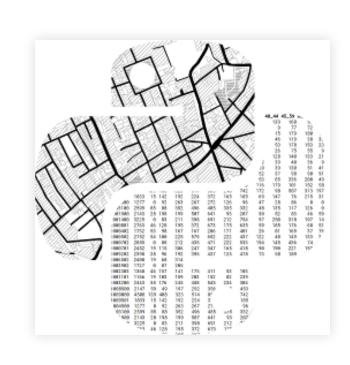
Geographic Data Science

What

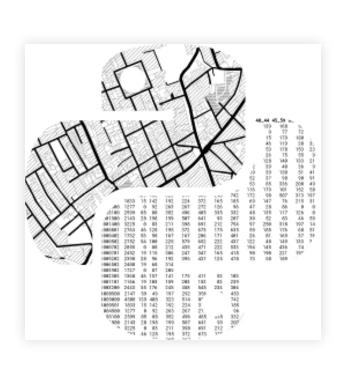


Building Blocks

- Computational Environment
- Geographical Thinking
- Spatial Data
- Spatial Weights



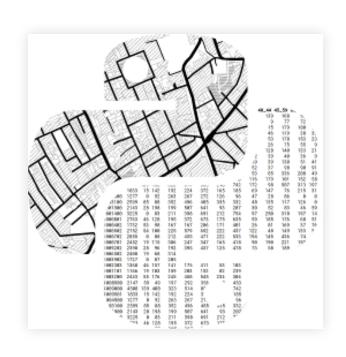
Fundamentals



- Choropleths
- Spatial Autocorrelation
- Local Spatial Autocorrelation
- Point Patterns

Advanced Topics

- Spatial Inequality
- (Spatial) Unsupervised Learning
- Spatial Feature Engineering
- Spatial Modelling



Bonus: Datasets



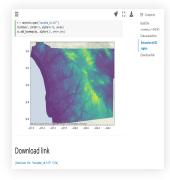










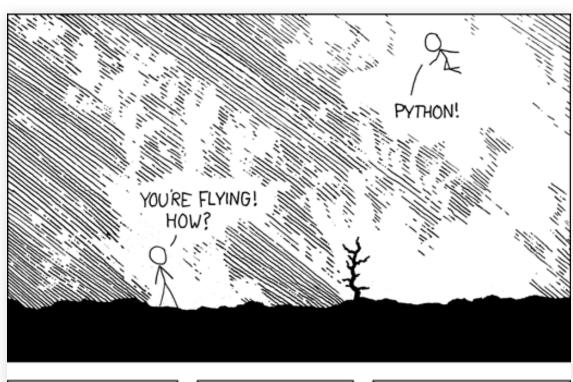






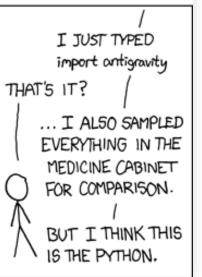
How

Python

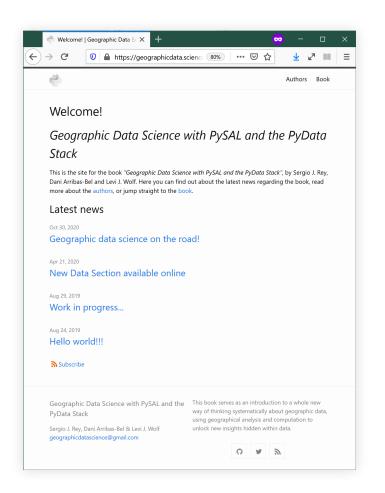


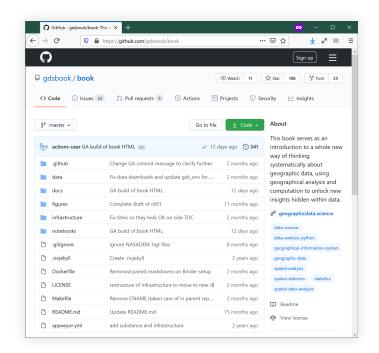


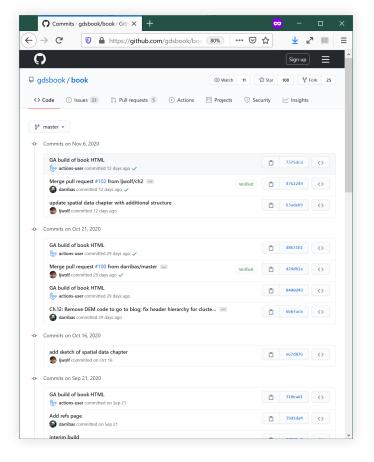




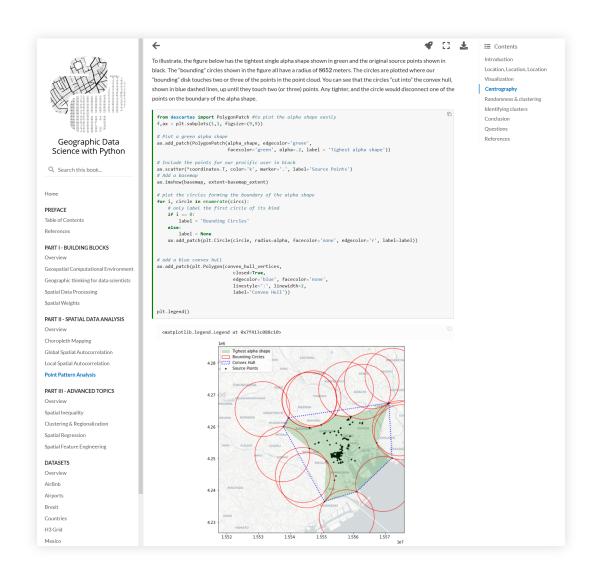
Radically Open

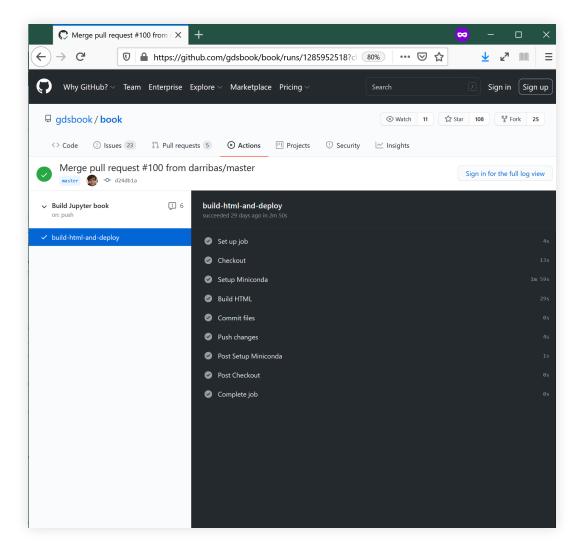




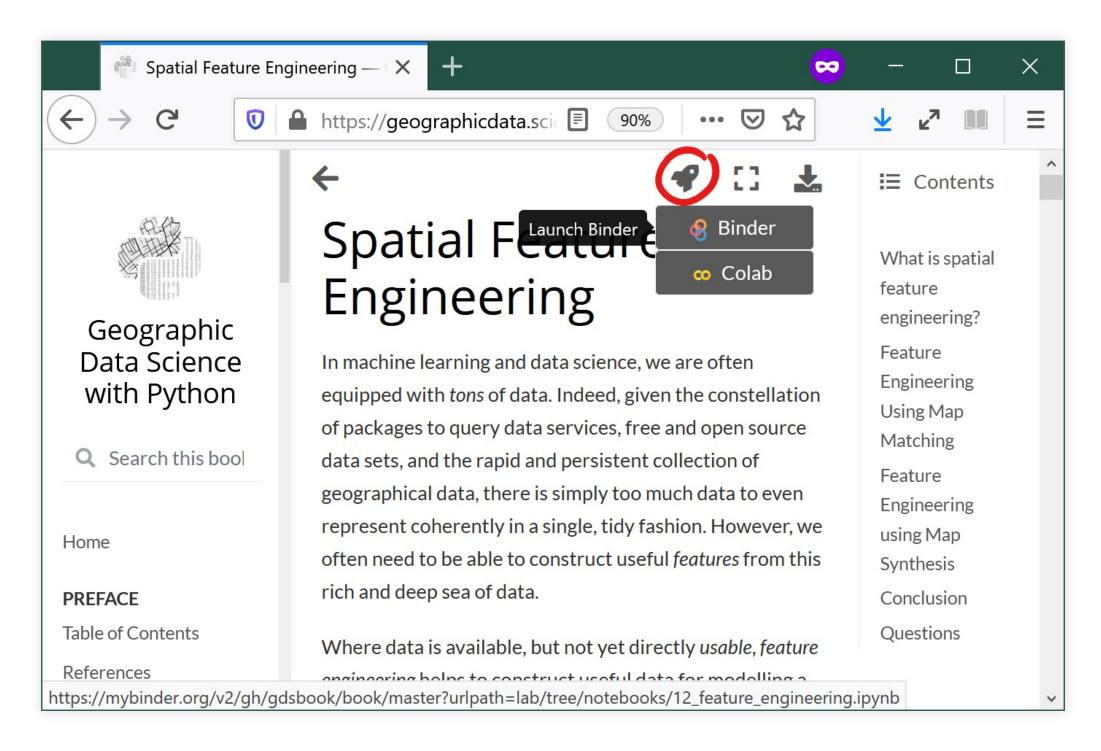


Code as text; text as codE





Try it out!!!



[PDF version of these slides]



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