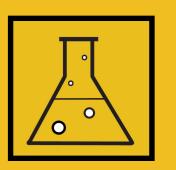
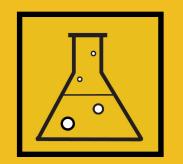
LEARNING LAB, Part 1

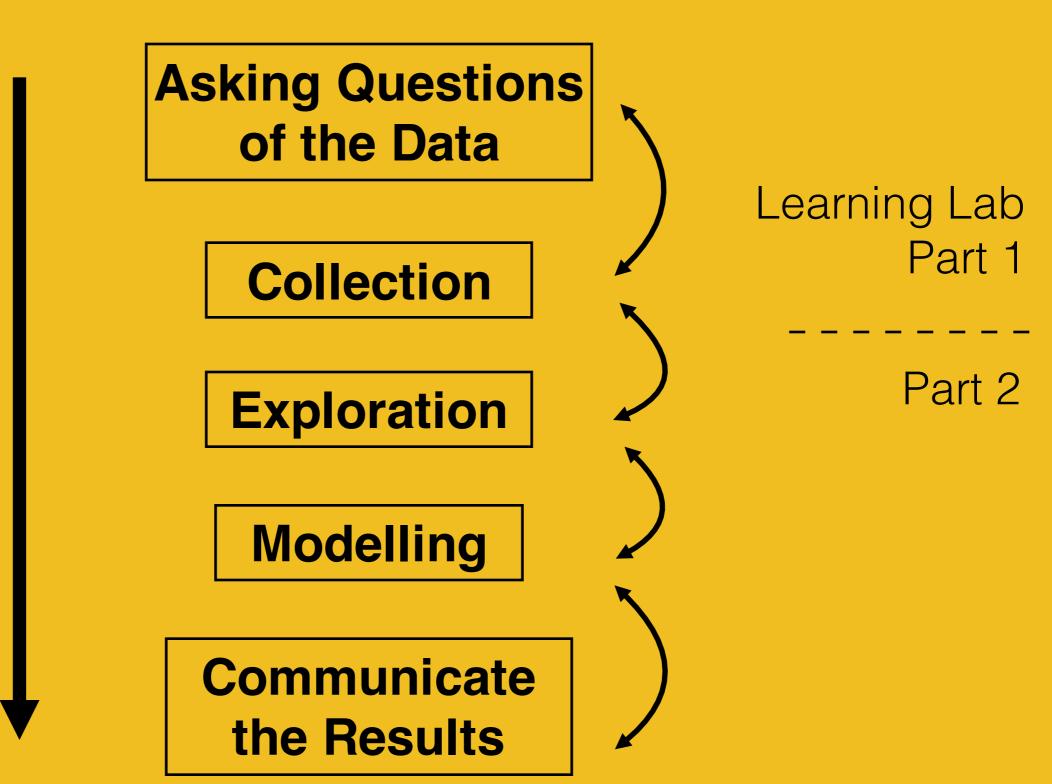


Learning Lab, Part 1:

- ✓ The Data Science Process
 - Asking Questions of Data
- Collecting and Sourcing Data

The Data Science Process





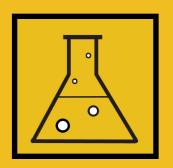


Questions to consider:

- > What is the goal / problem?
- > Is the problem quantifiable?
 - > Domain knowledge



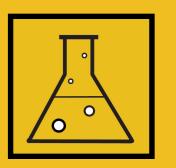




DEMO

Road Traffic Casualties in Leeds

What questions would you like to answer?
Please come up with two questions of your own. Also consider Who, What and Why questions

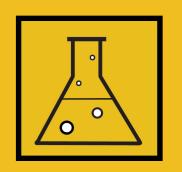


Defining the Goal

Practical Example, Learning Lab Part 1:

Where do cycling crashes cluster in Leeds? What factors are significant in causing road casualties?

Collecting Data



Practical Example:

Collecting Data

- > What data do we have available?
 - > What format is it in?

Is it... .xlsx .csv database

> Is the data good quality?

Are there missing values, empty columns, outliers, strange characters?

Collecting Data



DEMO

Collecting Data

Let's look at the data we have available on Github and Leeds Data Mill.

Collecting Data

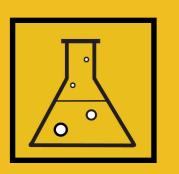


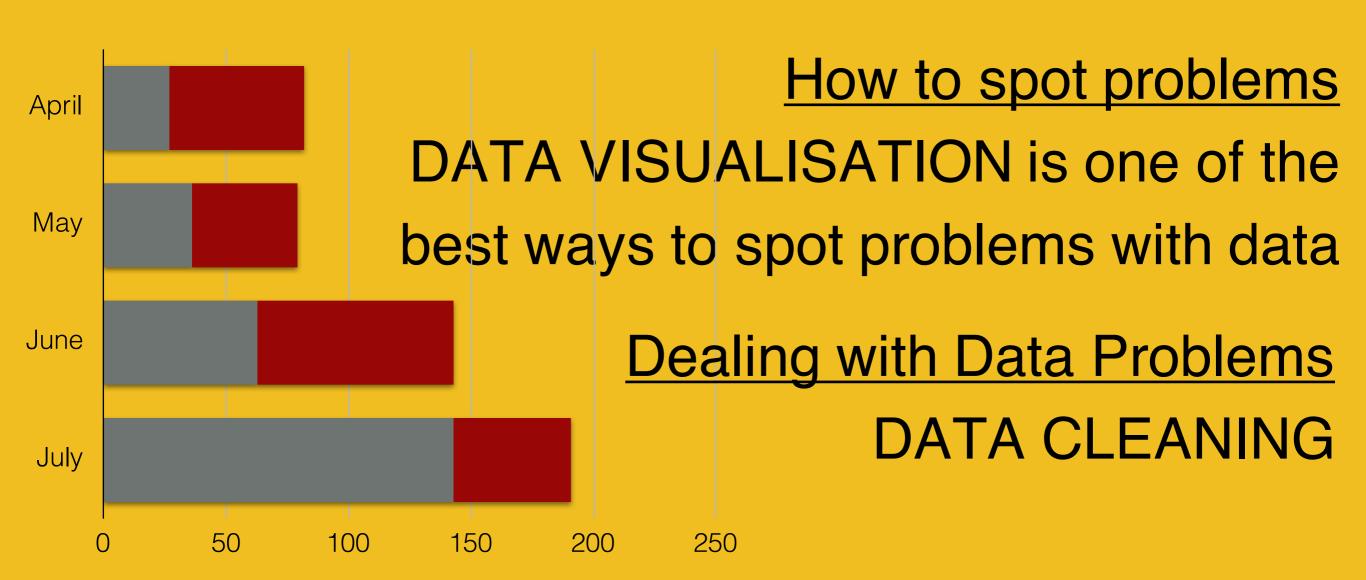
On Data Quality

Common problems:

- > missing (NA) values
 - > empty columns
 - > outliers
- > data entry mistakes
- > unnecessary characters &@?I+\$£

End of Learning Lab, Part 1





Next.... LEARNING LAB, PART 2