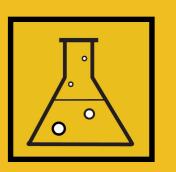
LEARNING LAB, Part 1



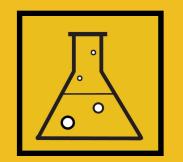
Learning Lab, Part 1:

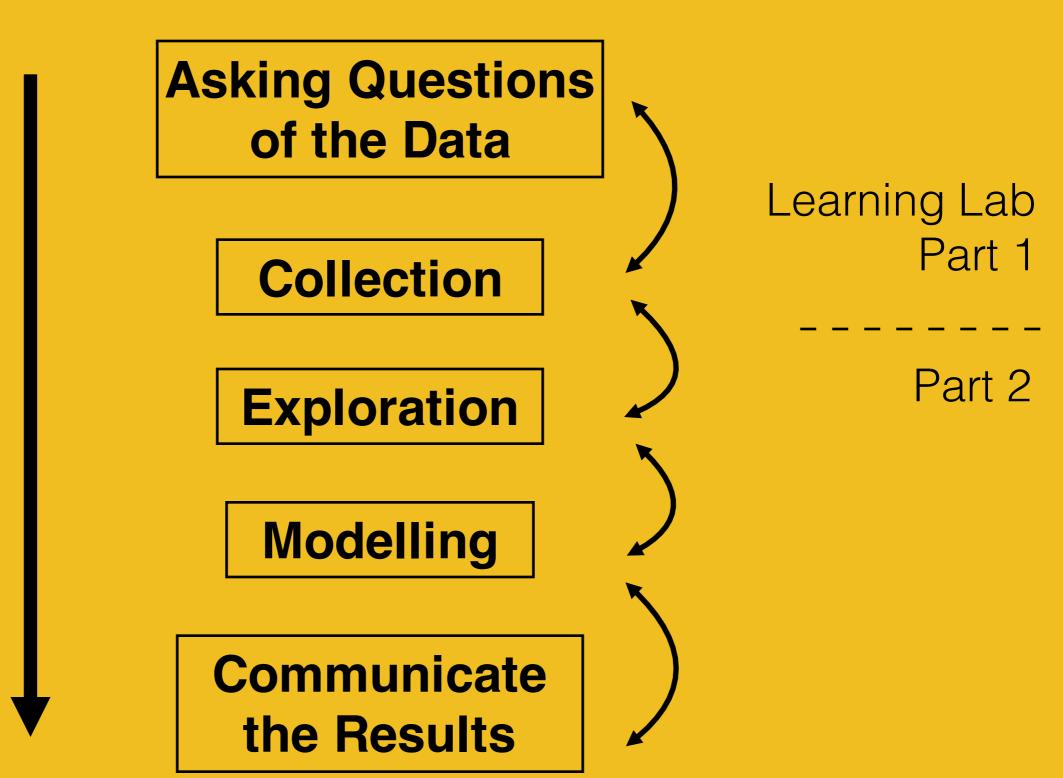
- ✓ The Data Science Process
 - Asking Questions of Data
- Collecting and Sourcing Data

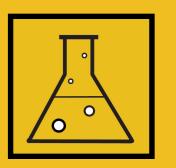
Learning Lab, Part 2:

An interactive, guided session where students can follow along on a practical data science project. Learn how to explore, analyse and visualise data using Excel, Tableau and R.

The Data Science Process





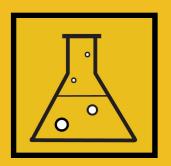


Questions to consider:

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







DEMO

Health Inequalities in Leeds

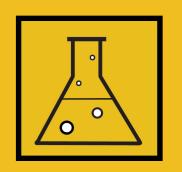
What questions would you like to answer?
Please come up with two questions of your own. Also consider Who, What and Why questions



Defining the Goal

Practical Example, Learning Lab Part 1:

How can we better understand Diabetes in Leeds? How does the problem compare nationally and internationally?



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?



Practical Example:

Collecting Data

> Where can you find data?

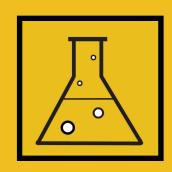
OPEN DATA

> What is it and where can I find it?

Check out our public Dropbox folder:

https://www.dropbox.com/s/d9m429wc7jgda2k/Open%20Data%20-

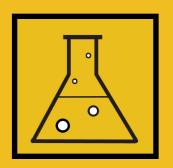
%20Health%20Innovation%20Lab.docx?dl=0



Video

What can Open Data do for you?

https://www.youtube.com/watch?v=Q_I7B7rtPQQ&list=PL6DDzoH u1cx1XJyWzymrAIS0QXXAytYOQ&index=1



DEMO

Collecting Data

Let's look at the data we have available and find out where we can find more open data.

Please feel free to follow along or explore for yourself

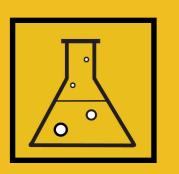


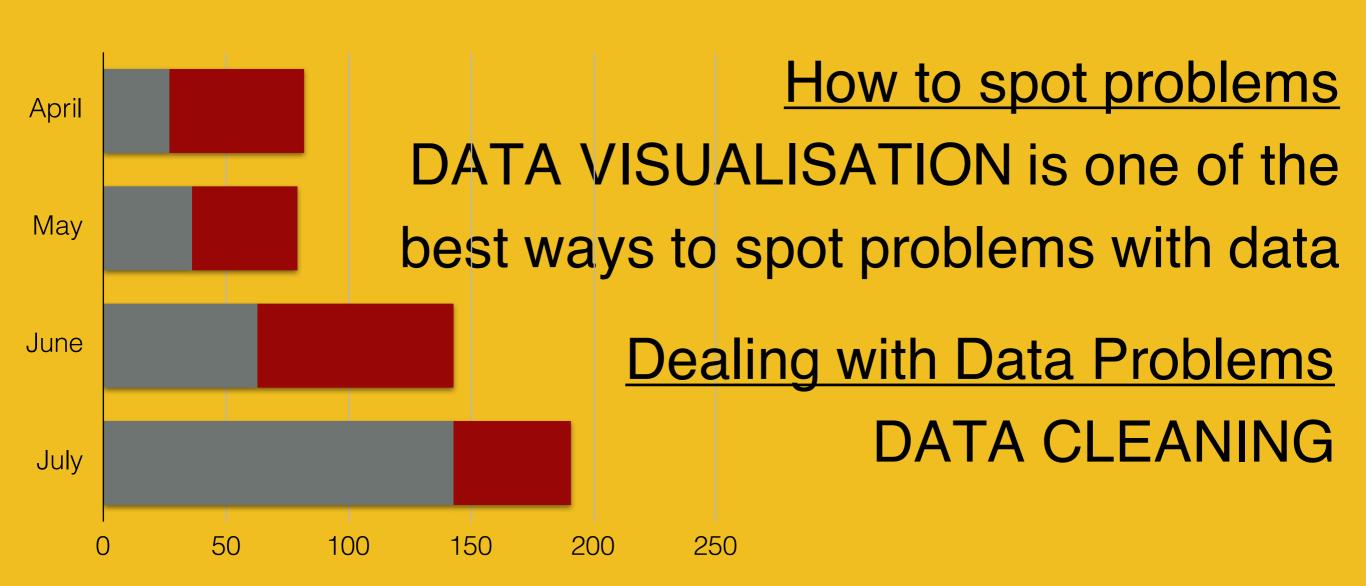
On Data Quality

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