## Data extraction, transformation, and loading in R

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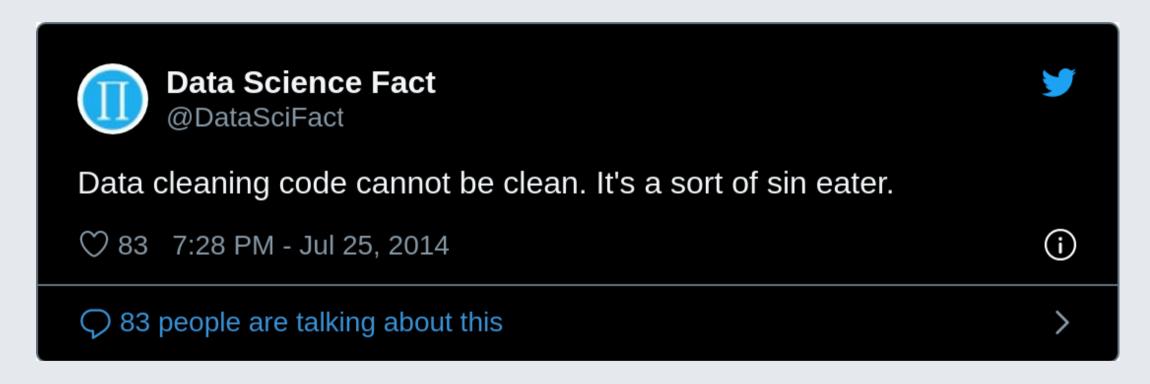
### **Outline**

- Concepts and considerations about data
- Practical session

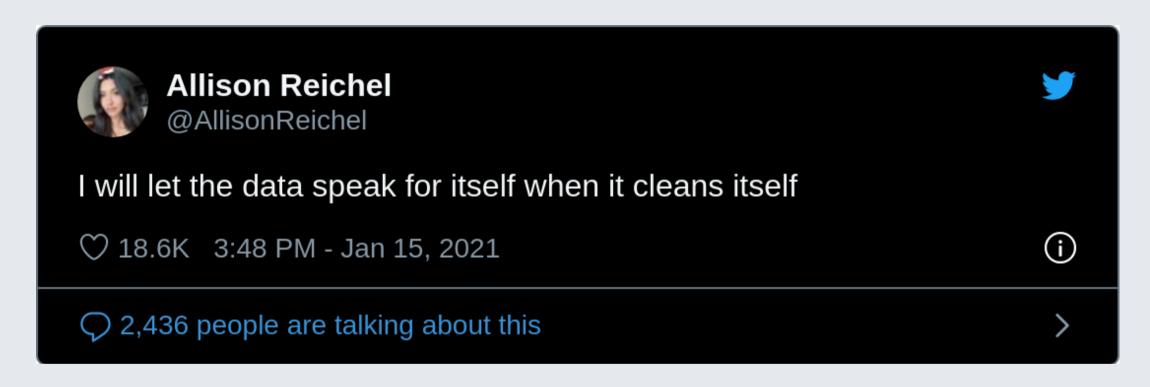
## Concepts and considerations about data in tweets and quotes

#### **Consideration #1:**

Data cleaning/processing/checking is an important, but very challenging, step when working with data



@StatFact tweet



@AllisonReichel tweet

# and I'm still pretty sure some of the data is missing, but it could still be here, in this ONE HUNDRED SHEET excel file

@RallidaeRule twee



@GhazalGulati, via @AmeliaMN tweet

# Classroom data are like teddy bears; real data are like a grizzly with salmon blood dripping out its mouth.

@JennyBryan, via @sgrifter tweet



@naupakaz, via @kwbroman tweet

#### **Consideration #2**

Big data is what everyone is talking about



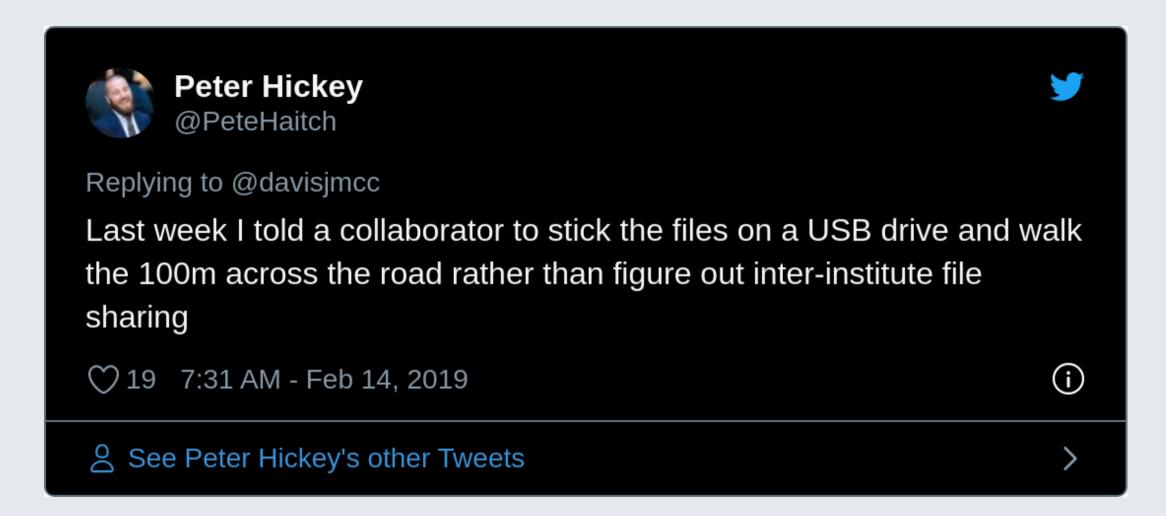
@mlipsitch, via @callin\_bull tweet

## Let's start the "titanic data" movement. Data too big to fail.

@neilfws with assist from @aaronquinlan, tweet

#### **Consideration #3**

# Data sharing requires a well-thought out process that everyone can follow



@PeteHaitch tweet

# Consideration #4 Working with data in R is great!



@tggleeson tweet

### **Practical session**

#### **Practical session**

- We will all go through Exercise #1 in the Practical R for Epidemiologists book
- This is also one of your next assignments for this lecture series. This can be accessed via our GitHub Classroom through this link https://classroom.github.com/a/xQNlWMp-
- This link has also been emailed to you.

### **Questions?**

### Thank you!

Slides can be viewed at https://OxfordIHTM.github.io/open-reproducible-science/session3.html

PDF version of slides can be downloaded at https://OxfordIHTM.github.io/open-reproduciblescience/pdf/session3-working-with-data-in-cpdf

R scripts for slides available here