

# ENVIRONMENTAL DATA ANALYTICS: WEEK 2

#### Tech Roundup

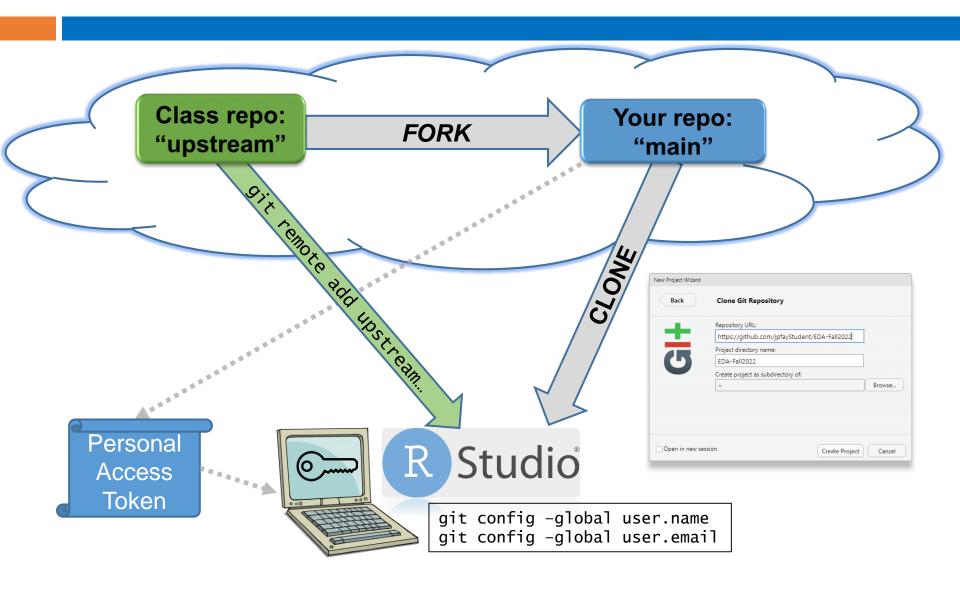
- Issues joining Slack? Navigating Slack?
- Issues installing applications:

```
R... RStudio... Git...
```

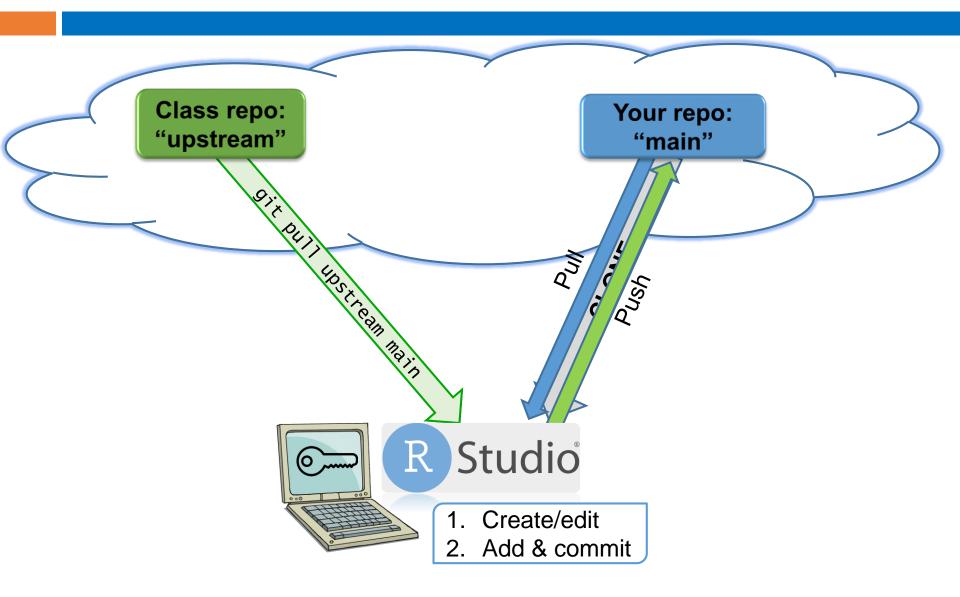
Issues creating your R project?

```
Forking... | Cloning... | PAT... | Committing... | Pushing...
```

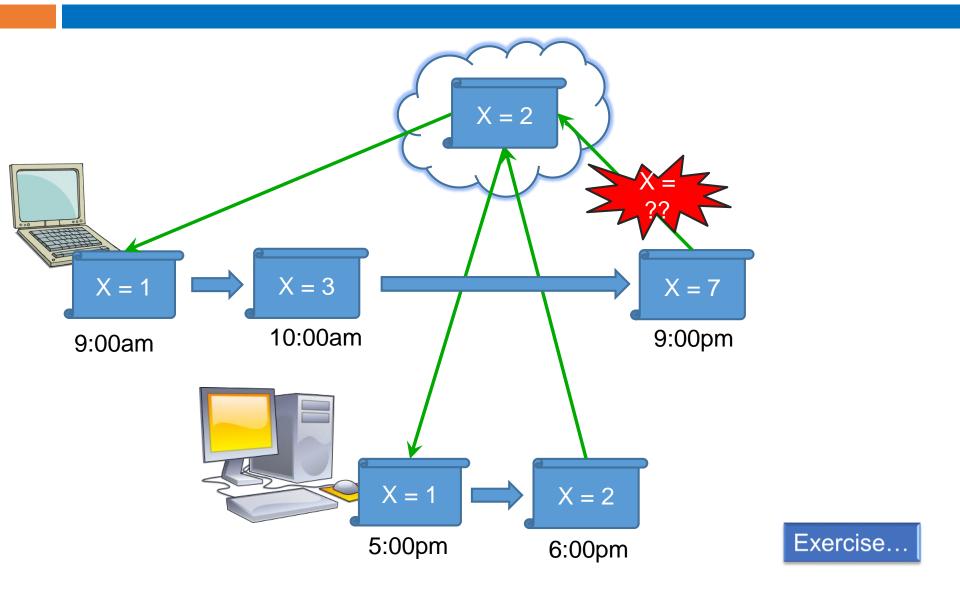
# Explaining Git/GitHub: Setup



## Explaining Git/GitHub: Use



#### Git: Merge conflicts



#### If Git goes totally sideways...

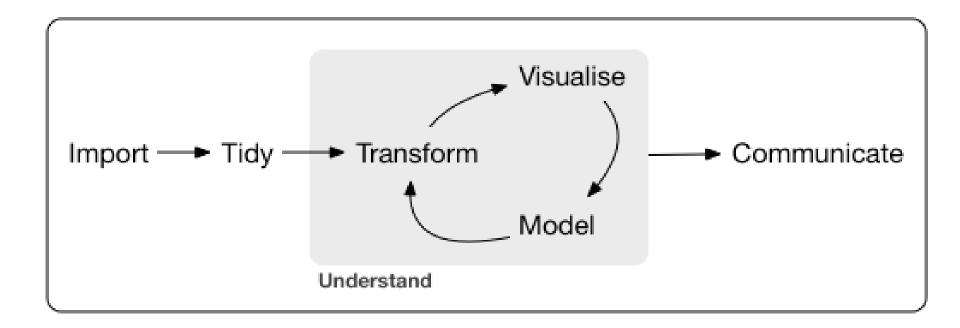
□ Make a back up (e.g. zip) of you project folder

Quit RStudio and rename project folder

 Restart RStudio and create a new project linked to your forked repo

 Copy over any missing items from your renamed folder to your newly cloned repository

### Q&A: What is Data Analytics



https://vita.had.co.nz/papers/tidy-data.pdf

#### Data Types

- Understand what it means to "tidy" data
- □ Differentiate "primary" and "secondary" data
- Differentiate "qualitative" and "quantitative" data
- Identify different file types used in data analytics and discuss why some formats are better than others in terms of transparency and reproducibility
- Describe the various data structures used in data analytics and what each are used for: Vectors, matrices, arrays, data frames, lists
- Understand the difference between R and RStudio
- Become familiar with the typical layout of an RStudio session

#### Up next: Module 2

#### Reproducibility & Coding Basics

- □ What is "reproducibility"? Why is it important?
- □ Working with RMarkdown files...
- □ Writing R code...