# Welcome! Please input this command into R:

```
usethis::use_course("https://bit.ly/2L95hCb")
```

#### Introduction to



and



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#### Schedule

- Getting Started (1:00 − 1:45)
- Intro to tidyhydat (1:45 − 2:15)
- Transforming data (2:15 − 3:00)
- Break (3:00 − 3:30)
- Dates and Joins (3:30 3:45)
- Visualizations (3:45 4:50)
- How to ask for help Where do you go next? (4:50 5:00)

### Introductions

#### Introductions

Sam Albers

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#### Introductions

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# What this workshop is not...

A comprehensive course on all of R



#### What this course is...

A specific starting point in R

A chance for you to code

#### Your turn

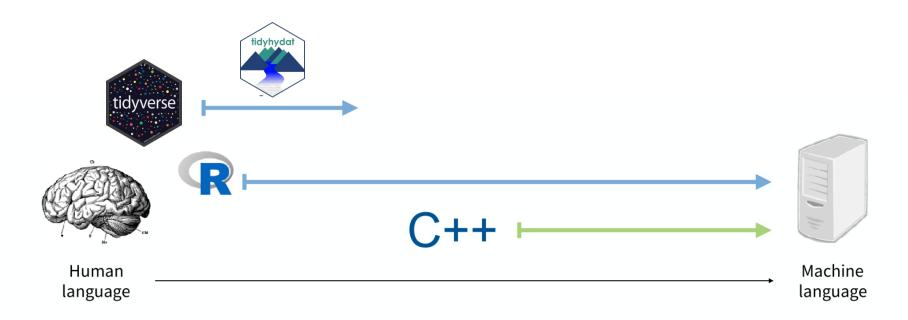
Introduce yourself to your neighbour

- Who are you?
- Why are you here?
- What is your experience with R?

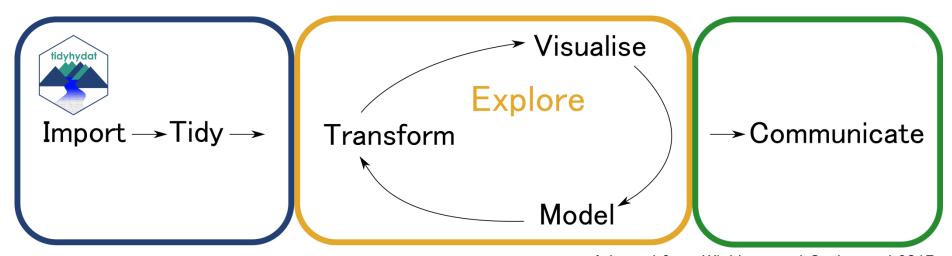
#### Your turn

I'm done I'm stuck

#### R – A programming language for data

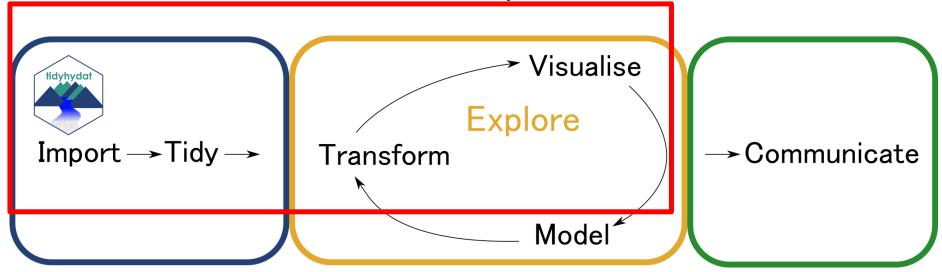


# The Data Analysis Process



Adapted from Wickham and Grolemund 2017

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Adapted from Wickham and Grolemund 2017

# Focus less time of coding and more time on data analysis

# Why use R?

- Free
- Efficient
- Reproducible
- Scalable



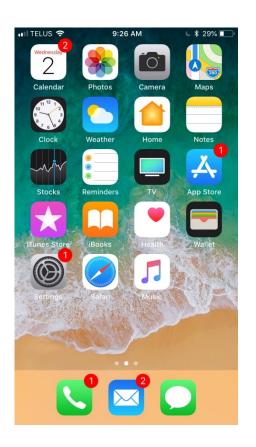




Packages



RStudio



# Anatomy of an R function

# Anatomy of an R function

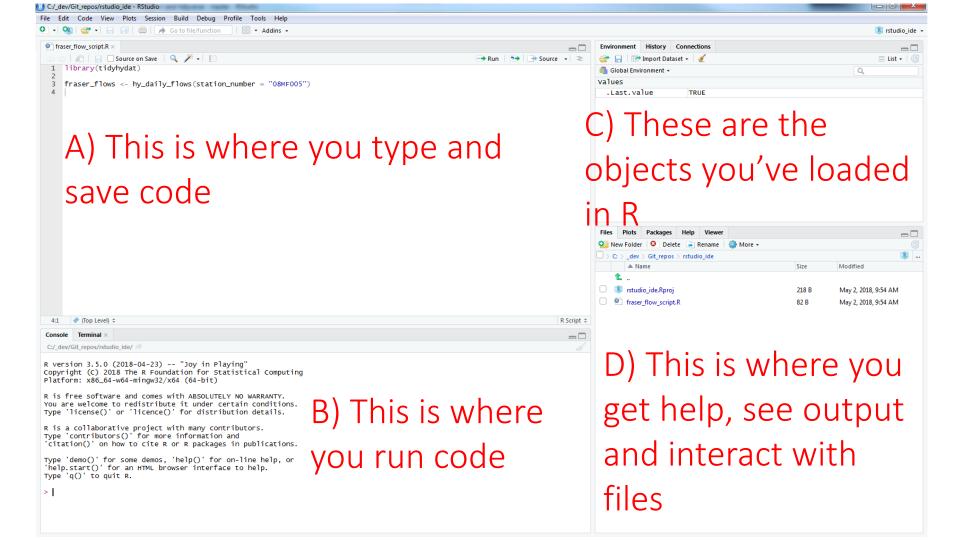
"To understand computations in R, two slogans are helpful:

Everything that exists is an object.

Everything that happens is a function call."

John Chambers

# RStudio

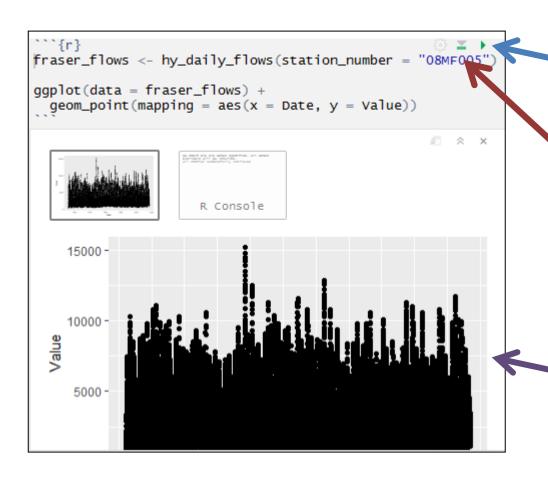


#### Your turn

- Open the file intro-to-tidyhydat-andtidyverse.Rproj
- Open 00-Getting-started.Rmd and start doing analysis!

### A quick word on Notebooks

- Integrates:
  - Code
  - Text
  - Output



Click to run code in chunk

Click to run all code chunks above

Code output