#### Welcome!

Please connect to the wifi and then input this command into R:

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

Then answer the following prompts with "Yes" and/or "Absolutely"

#### Introduction to



and



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Course page:

https://github.com/bcgov/intro-to-tidyhydat-and-tidyverse

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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

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#### Introductions

#### Joel Trubilowicz

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#### Jon Goetz

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#### What this workshop is not...

A comprehensive course on all of R Important Not going to talk importing data – only WSC data



#### What this course is...

A specific starting point in R
A chance for you to code
A chance for you to think about data

analysis differently

#### Your turn

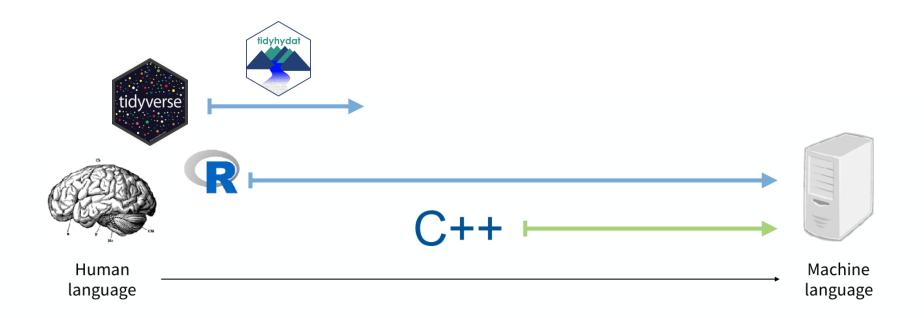
#### Introduce yourself

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

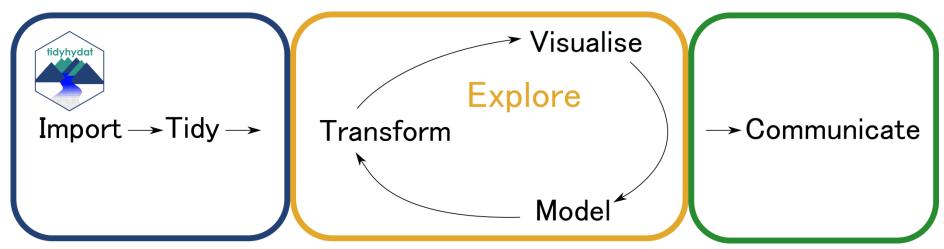
#### Your turn

I'm done I'm stuck

#### R – A programming language for data

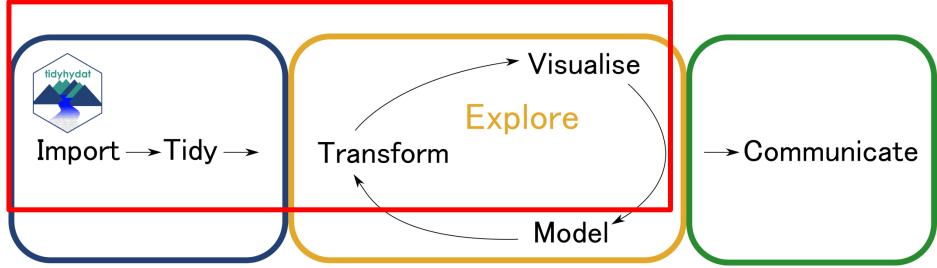


### The Data Analysis Process



Adapted from Wickham and Grolemund 2017

The Data Analysis Process



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

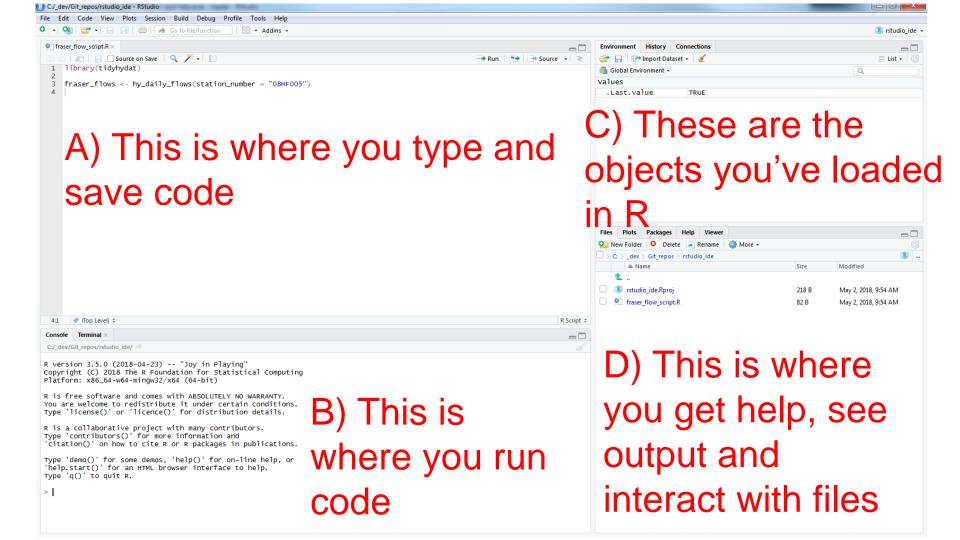
## Anatomy of an R function

"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**

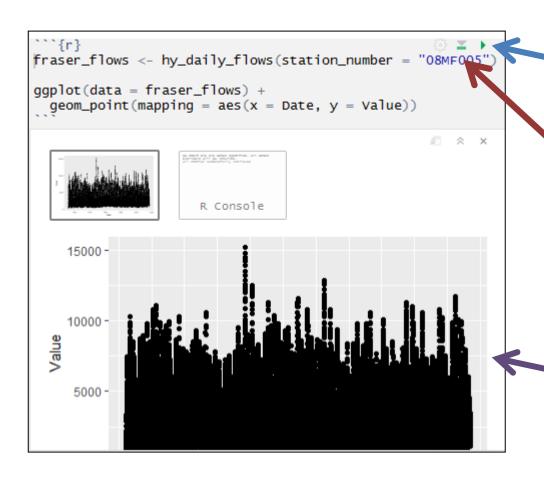


#### Your turn

- 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