

# R fundamentals

---

Matt Espe

13 May 2019

What are fundamentals?

- *not* basics: basics cover what you need to know to get started with R, and are covered well in many other talks/blog posts/etc.
- fundamentals are foundational: create the low-level understanding which helps you to reason about the language.
- many fundamentals involve more advanced topics

# What we will cover today

- What is R? (don't laugh - its more complicated that you think)
- The Read Eval Print Loop
- How R finds variables (and what that means for you)
- Data types in R

Definitely not exhaustive or comprehensive - but knowing the above will help you reason about what R is doing and why.

# What is R?

Audience quiz:

## 1. Rstudio

Is this R?

## **Rstudio**

**NO-** Rstudio is an IDE:   I  ntegrated   D  evelopment  
  E  nvironment

Rstudio provides an integrated place to work with R plus many convenience utilities to help with common issues with coding in R.

## 2. tidyverse

Is this R?

**NO-** the tidyverse primarily is composed of syntactic sugar

What the heck is syntactic sugar?



### 3. R console

# The Read Eval Print Loop

## How R finds variables (and what that means for you)

# Data types in R