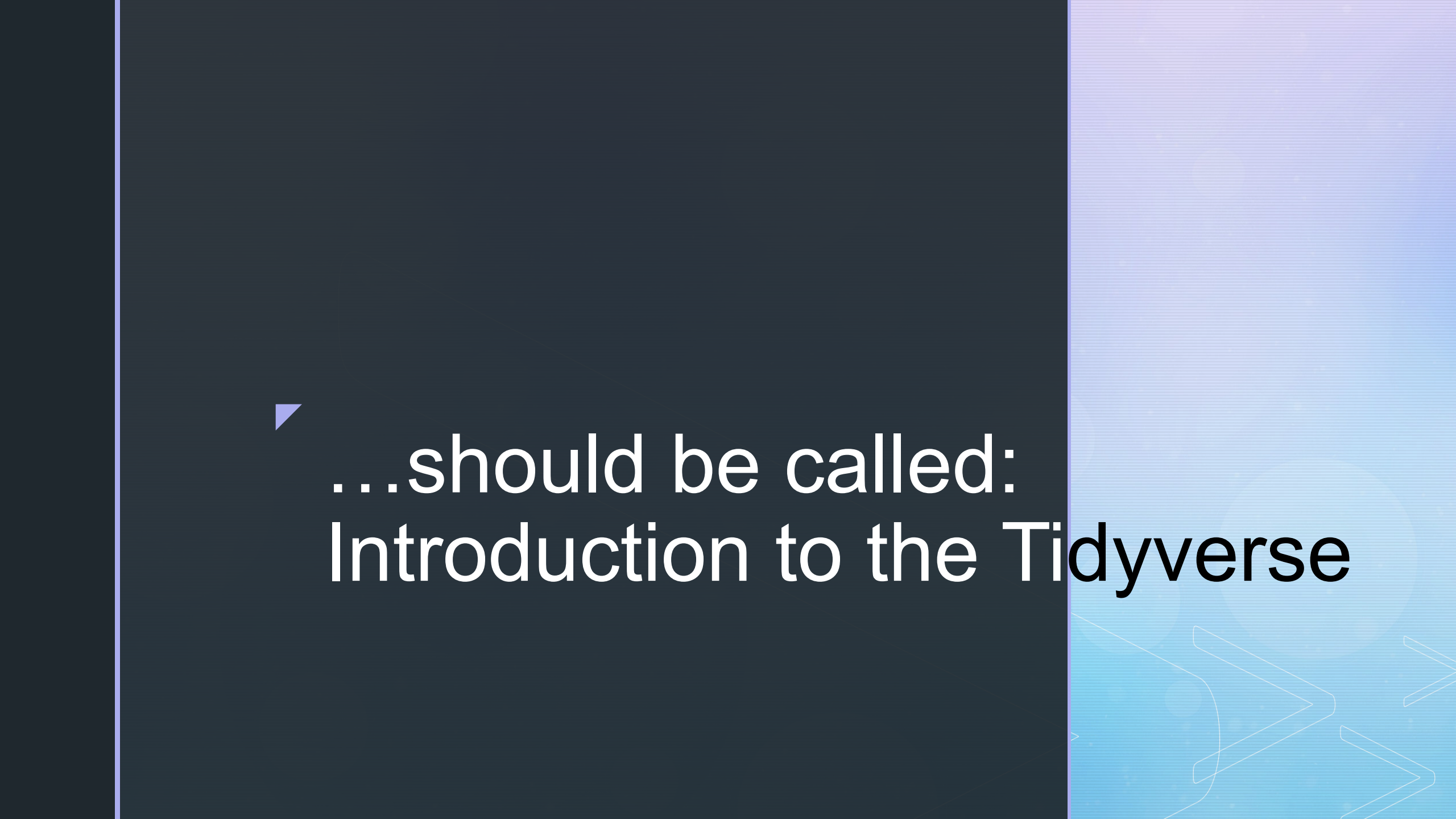


# ▀ R Workshop I: Data Wrangling & Visualization

Steven Tseng

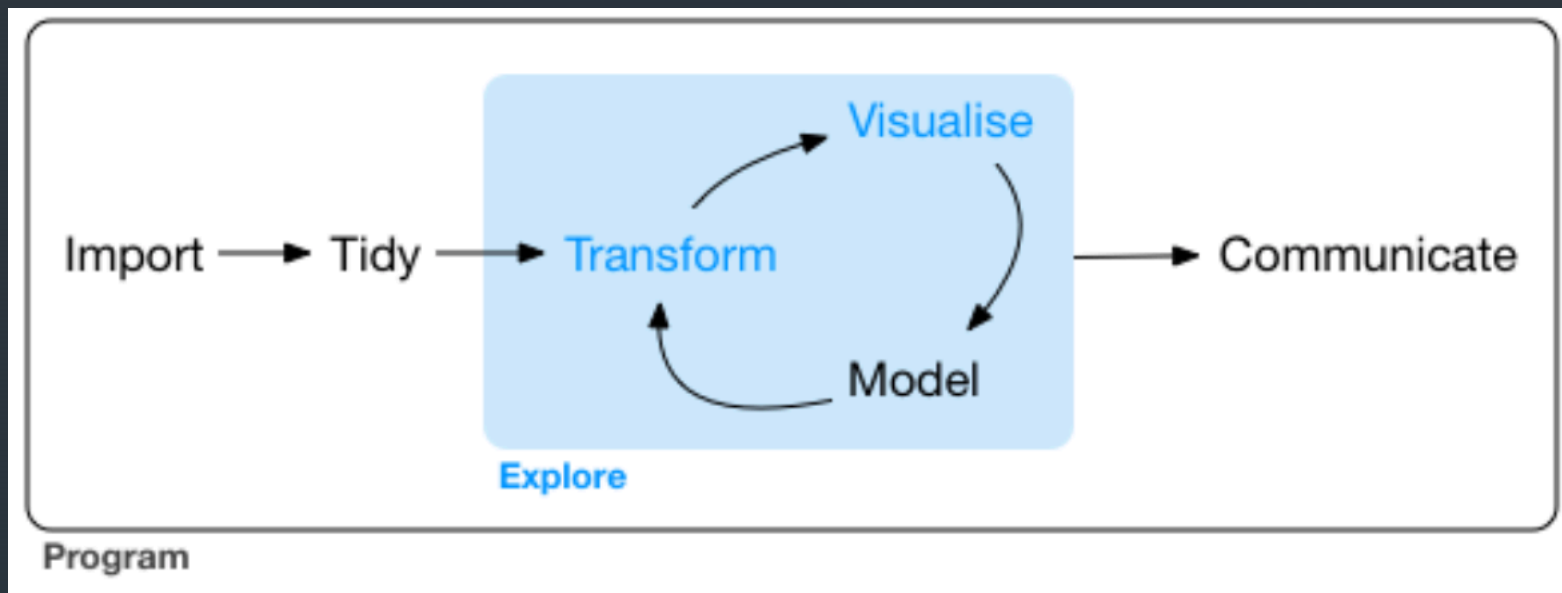
28 February 2018



...should be called:  
Introduction to the Tidyverse

# What is the Tidyverse?

- A collection of packages by Hadley Wickham, Chief Scientist at RStudio
- A collection of tools based on Wickham's philosophy and approach to data science

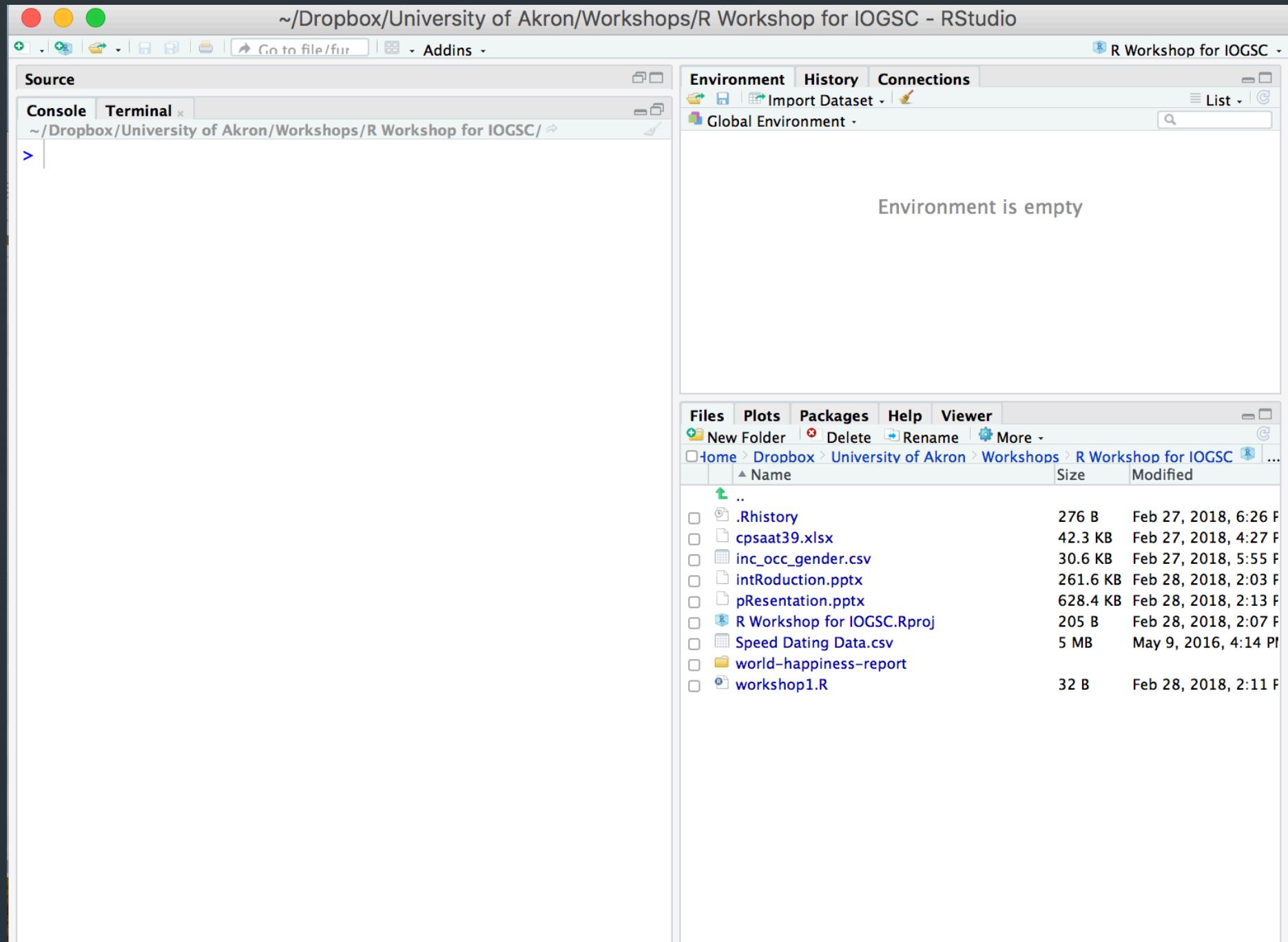


## Warming Up



# Launching

- Open RStudio



# Explore the Console

- `1+1`
- `1 + 1`
- `2*2`
- `print(1+1)`
- `print(hello world)`
  - What went wrong?



# The R Language

- Object-Oriented
- Assign with:
  - **Alt + -**
- `x <- 1`
- `x <- c(1,2,3,4,5)`
- `x <- matrix(c(1,2,3,4), 2, 2)`

# The R Language

- Manipulate objects with functions
- General form:
  - **function(argument1, argument2, ...)**
  - `print(x)`
  - `df <- data.frame(x)`

# The Environment

- Top right
  - Shows objects in current session
- Good practice to clear environment
  - `rm(list=ls())`

# Files & Output

- Bottom right
  - File browser
  - Plots
  - Help
    - ?lm
    - ??lm



# Saving Code

- Top left
- New R Script



# R Projects

- Create projects to organize work in lieu of having various files floating around
  - New folder
  - Create R Project in that folder
  - Close RStudio
  - Open R Project

## ▀ Getting Started with EDA



## Download File

- Data on Employment Wages from BLS



# Load Libraries

- `library(tidyverse)`
- `library("tidyverse")`