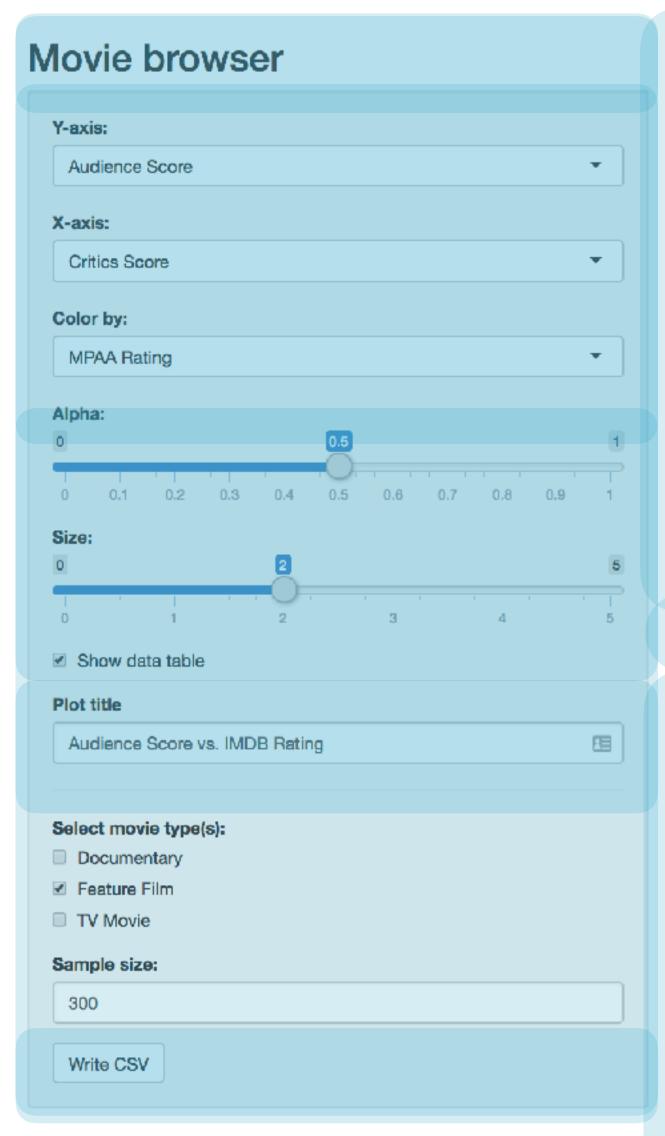


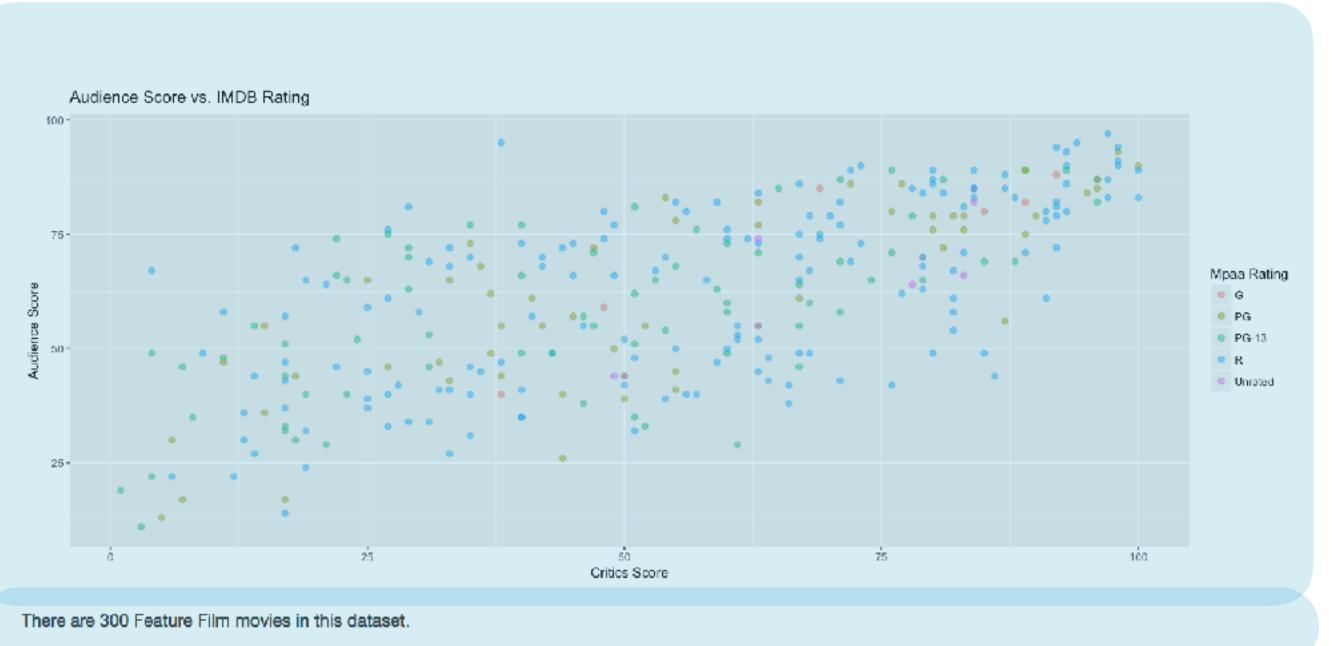


#### BUILDING WEB APPLICATIONS IN R WITH SHINY

### Welcome to the course!







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The Godfather, Part II	Feature Film	Mystery & Suspense		202	R	Paramount Pictures	1974-12- 20T05:00:00Z
Titanic	Feature Film	Drama		194	PG-13	Paramount Pictures	1997-12- 19T05:00:00Z
Meet Joe Black	Feature Film	Drama		178	PG-13	Universal Pictures	1998-11- 13T05:00:00Z
The Postman	Feature Film	Action & Adventure		177	R	Warner Home Video	1997-12- 25T05:00:00Z
The English Patient	Feature Film	Drama		162	R	Miramax Films	1996-11- 15T05:00:00Z
Harry Potter and the Chamber of Secrets	Feature Film	Science Fiction & Fantasy		161	PG	Warner Bros. Pictures	2002-11- 15T05:00:00Z





## Background

- You are familiar with R as a programming language.
- You are familiar with the Tidyverse, specifically ggplot2 and dplyr.





## Help

**DataCamp** 









## Tips

- Always run the entire script, not just up to the point where you're developing code.
- Sometimes the best way to see what's wrong is to run the app and review the error.
- Watch out for commas!



## Anatomy of a Shiny app

```
library(shiny)
```

ui <- fluidPage()</pre>

server <- function(input, output) {}</pre>

shinyApp(ui = ui, server = server)

#### User interface

controls the layout and appearance of app

#### **Server function**

contains instructions needed to build app

### shinyApp()

Creates the Shiny app object





### Data



Let's build a simple movie browser app!



movies.Rdata

Data from IMDB and Rotten Tomatoes on random sample of 651 movies released in the US between 1970 and 2014



### Revisit

```
library(shiny)
library("movies.Rdata")
ui <- fluidPage()</pre>
```

Data used for this app

```
server <- function(input, output) {}</pre>
```

```
shinyApp(ui = ui, server = server)
```





BUILDING WEB APPLICATIONS IN R WITH SHINY

# Let's practice!