Foundations of Data Science with R

Jameson Watts, Ph.D.

Agenda

- 1. Course Overview and Expectations
- 2. Example Analysis of Wine Prices

Course Overview and Expectations

Contact Information

- ► Email: jwatts@willamette.edu
- ► Office Hours: after class
- Appointments: jamesonwatts.youcanbook.me (Skype or phone call)

Class Materials

- Base R
- ▶ RStudio 1.2
- R for Data Science
- ▶ DataCamp Classroom

Other resources:

- https://twitter.com/r4dscommunity
- https://bookdown.org/yihui/rmarkdown
- http://google.com

Reading the Course Outline

- Class Topics
 - Subjects I plan to cover during that day's lecture
- Reading and Assignments
 - ▶ DCC: assignments in the DataCamp Classroom
 - R4ds: chapters to read in the online textbook

Assignments

- ▶ DataCamp homework assignments (25%)
- ► Midterm exams (50%)
- ► Final Presentations and Report (25%)

Course Policies and Expectations

- Name tents
- Collaboration
- Late work
- Effort
 - 2-4 hours outside of class each week
 - struggle, Google, struggle, doh!
 - start with the basics... ramp up very fast

Analysis of wine prices

Dataset

library(tidyverse)

```
## x dplyr::filter() masks stats::filter()
## x dplyr::lag() masks stats::lag()
summary(cars)
```

```
## speed dist

## Min. : 4.0 Min. : 2.00

## 1st Qu.:12.0 1st Qu.: 26.00

## Median :15.0 Median : 36.00

## Mean :15.4 Mean : 42.98
```

Slide with Plot

