GGPLOT Review

David/Meg

2025-02-26

GGplot Review

Learning objectives

- GGPlot
 - Mapping your dataframe columns to axes
 - Choosing a geometry for different visualizations
 - Modifying plot specifics

GGPlot Basic structure

What are the 3 minimum parts to make a plot using ggplot2?

Give a description and example for each:

- 1.
- 2.
- 3.

Constructing plots

Look at this plot of data from mpg:

Answer these questions:

- 1. What are the axes?
- 2. What aesthetics are mapped?
- 3. What is the geometry?

```
# Reproduce the inline graph using the mpg dataset and ggplot2

# uncomment: ggplot(..., aes(...)) + ...
```

Another graph, this time using the births data

Read-in US Births data again.

```
usb = read.csv("https://github.com/Colorado-State-University-CMB/CM515-course-2025/raw/refs/heads/main/s
ggplot(usb, aes(x=day_of_week, y=births)) + geom_jitter() + ggtitle("US births data")
```

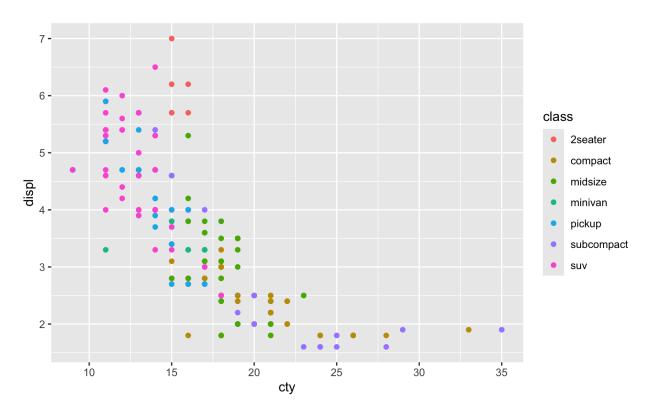
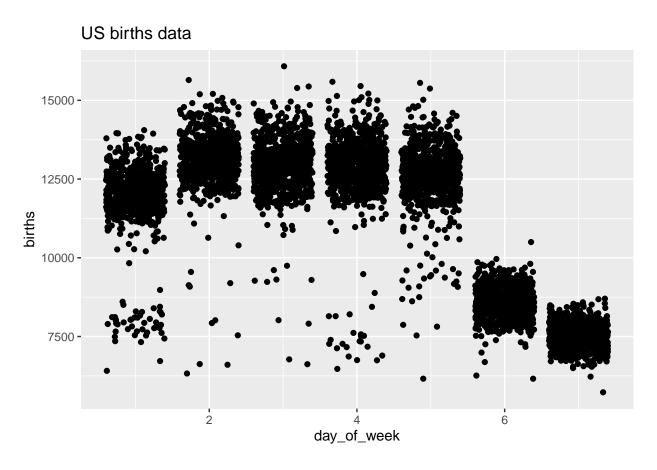


Figure 1: Plot of MPG data



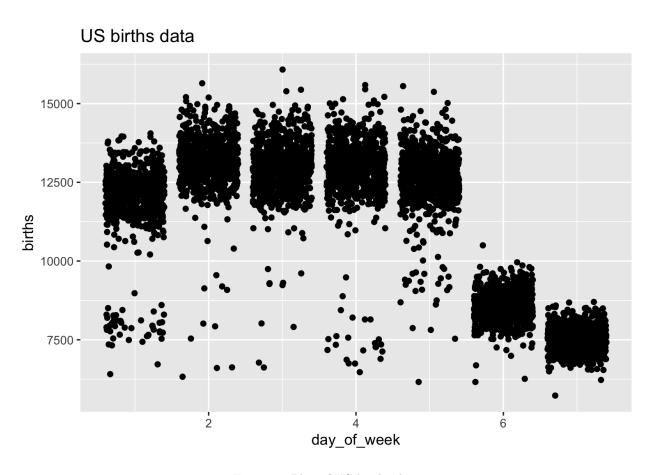


Figure 2: Plot of US births data