Lecture 8. Graphics

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Goals

- Learn how to create quick graphs
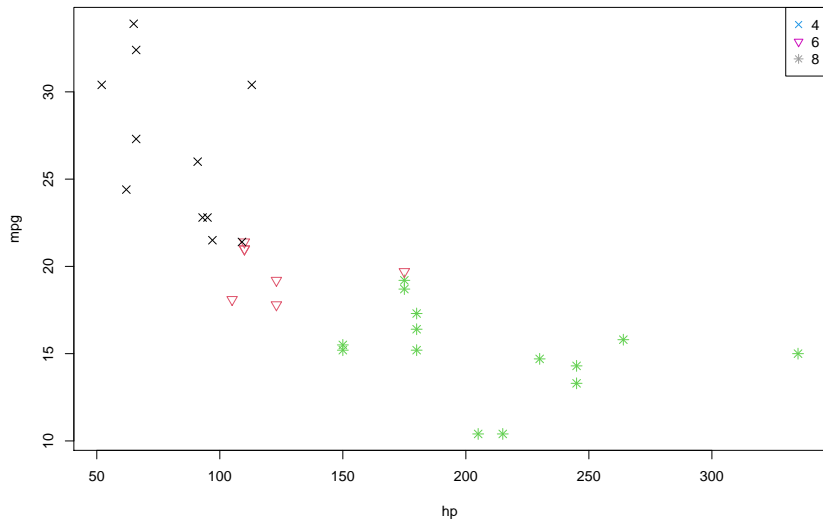- Learn how to create pretty graphs

Why graphs?

- ▶ Graphs help you and your readers visualize your data
- ▶ Use graphs for your presentations
  - ▶ I tend to break this rule a lot because I'm terrible and like regression tables
  - ▶ But in general, people like it when you use graphs
- ▶ Use graphs for your papers
  - ▶ Put the table in the appendix!

base R graphs

- ▶ These are kinda ugly (no offense)
- ▶ But they are useful when you just need to. . . see something. . . as a graph
- ▶ Think of base R graphs as a sketchpad. You can use it to draft something but do not use it as your final version (IMO).

base R graph example

ggplot2 graphs

- ggplot2 graphs are prettier
- Package has more themes and allows you to customize your graphs in a billion different ways
- And unlike base R graphs, ggplot2 graphs look like they were made in the 21st century

ggplot2 graph example