**Objectives**

Upon completion of this module, students should be able to:

* Understand the value of R for data science and the social sciences
* Use R and the ggplot library to produce basic graphical displays of their data
* Distinguish the appropriate type of plot to use depending on the data they are working with

**What to do this week:**

* Watch the [Week 1 lectures](https://canvas.upenn.edu/courses/1599836/pages/week-1-1a-introducing-visualization) prior to the start of the synchronous session on Thursday, 9/2 at 6pm ET
  + [Week 1 - 1a Introducing Visualization (15:07)](https://canvas.upenn.edu/courses/1599836/pages/week-1-1a-introducing-visualization-15-07)
  + [Week 1 - 2 Changing an Aesthetic (4:13)](https://canvas.upenn.edu/courses/1599836/pages/week-1-2-changing-an-aesthetic-4-13)
  + [Week 1 - 3 Adding Facets to a Graph (3:35)](https://canvas.upenn.edu/courses/1599836/pages/week-1-3-adding-facets-to-a-graph-3-35)
  + [Week 1 - 4 Beyond Scatterplots: Different Types of Graphs (8:44)](https://canvas.upenn.edu/courses/1599836/pages/week-1-4-beyond-scatterplots-different-types-of-graphs-8-44)
  + [Week 1 - 5 Single Variable Graphs (Bar Charts)](https://canvas.upenn.edu/courses/1599836/pages/week-1-5-single-variable-graphs-bar-charts)
* Download the following files to complete your work for this week in the [Week 1 folder](https://canvas.upenn.edu/courses/1599836/files).
  + [Visualization handout](https://canvas.upenn.edu/courses/1599836/files/98936099/download?wrap=1): refer to it while watching the Week 1 lecture on visualization. Be sure to read the handout thoroughly prior to the synchronous session.
* [Attend Synchronous Session on Thursday 9/2, 6-7pm ET (information on accessing session here)](https://canvas.upenn.edu/courses/1599836/pages/synchronous-session-and-office-hours-information)
* You can download the script (command file) that corresponds to the videos [here](https://canvas.upenn.edu/courses/1599836/files/98935998/download?wrap=1)[download](https://canvas.upenn.edu/courses/1599836/files/98935998/download?download_frd=1).

**Homework:**

* [Read textbook, (Links to an external site.)](https://r4ds.had.co.nz/) chapter 3 before beginning the homework assignment
* [Homework on Visualization](https://canvas.upenn.edu/courses/1599836/assignments/9122685) due Monday 9/6
* [Need help with the course site? Start here.](https://canvas.upenn.edu/courses/1599836/pages/course-technology-guide)