

GRD 610A

Data Visualization II

January 27, 2021 | R Basics





Visualization of the Week

Revisit Padlet

https://padlet.com/ischilling_ccs/mmzv9zq2ic8e6igs



**What makes an effective
data visualization?**





Let's Get Started in R

Data Visualization: A Practical Introduction by Kieran Healy, Chapter 2





R Markdown

- R Markdown allows a mix of text, code, and images to be written and saved in one document
- Making it easier to keep track of notes, code, and output together
- Outputs documents in HTML, Word, and PDF

Markdown	Output
# Header	Header
## Subhead	Subhead
Plain text	Plain text
<i>*italics*</i>	<i>italics</i>
bold	bold
<code>`verbatim`</code>	verbatim
1. List	1. List
2. List	2. List
- Bullet 1	° Bullet 1
- Bullet 2	° Bullet 2
Footnote.[^1]	Footnote ¹
[^1]: The footnote.	¹ The footnote.

Figure 2.1 from p. 34 of Healy, Data Visualization: A Practical Introduction showing “elements of RMarkdown syntax”



R Markdown Setup

- Set parameters and output formats in the YAML
- Formatting text
- Code chunks and parameters on code chunks
- ?html_document
- Navigation

```
---  
title: "Data Visualization Notes"  
author: "Jenn Schilling"  
date: "2020-01-27"  
output:  
  html_document:  
    theme: flatly  
    toc: TRUE  
    toc_float: TRUE  
    code_download: TRUE  
---
```

R Markdown Notes File

Data Visualization: A Practical Introduction by Kieran Healy, Chapter 2, p. 36



15 Minute Break



Things to Know About R

Data Visualization: A Practical Introduction by Kieran Healy, Chapter 2, p. 38





R Basics

- R is an interpreter
 - > means R is ready for a command
 - + means R is waiting for more information (your last command is not complete)
 - If you get stuck with +, press the Esc key to get back to >
 - CTRL + ENTER
- “Everything has a name”
 - Names are case sensitive
 - Objects
 - Functions
 - Constants
- “Everything is an object”



Lab Procedure

- Follow along with the book chapter
- Save your work as a .Rmd
- Knit to an HTML
- Submit to Blackboard after class
- [Rubric](#)



Let's Get into RStudio

Data Visualization: A Practical Introduction by Kieran Healy, Chapter 2, pp. 38-53





Tasks to Complete

- Reading (see Syllabus)
- Prepare for your Visualization of the Week