

# GRD 610A

## Data Visualization II

January 27, 2021 | R Basics





# Visualization of the Week

# Revisit Padlet

[https://padlet.com/ischilling\\_ccs/mmzv9zq2ic8e6igs](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	<b>Header</b>
## Subhead	<b>Subhead</b>
Plain text	Plain text
<i>*italics*</i>	<i>italics</i>
<b>**bold**</b>	<b>bold</b>
`verbatim`	verbatim
1. List	1. List
2. List	2. List
- Bullet 1	° Bullet 1
- Bullet 2	° Bullet 2
Footnote.[^1]	Footnote <sup>1</sup>
[^1]: The footnote.	<sup>1</sup> 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







**10 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”



# 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