



# **R in 3 Months: Week 6**

## **(Git + GitHub)**



# Agenda

1. Housekeeping
2. Four Tips
3. GitHub
4. Next Week



# Housekeeping

- Catch-up Week
- Create discussion threads for general questions (eg how to get data from Tableau Dashboards)



# Four Tips



# Do all websites give download links?

## TYPES OF COMPUTERS AND INTERNET SUBSCRIPTIONS

Survey/Program: American Community Survey TableID: S2801 Product: 2019: ACS 5-Year Estimates Subject Tables ▾

Notes

Selections

1 Geo

Years

Topics

Surveys

123 Codes

Hide

Filter

Transpose

Margin of Error

Restore

Excel

Download

More Data

Print

Map

### Sorry, that table is too large to display.

The size of this table may exceed your browser's capabilities and may result in error or browser instability.

Download the entire data or adjust your filters in the toolbar for a smaller table.

DOWNLOAD TABLE

FILTER RESULTS

To proceed with the table display anyway, [open the table](#).



# Do all websites give download links?

- Sometimes you can find an R package for accessing data
  - [{tidycensus}](#) contains data from the US Census
  - [{WDI}](#) contains data from the World Bank
- You might be able to scrape the webpage or use an API (Charlie's putting together a discussion thread on this).



# Working with `tabyl` objects

When you use `tabyl()` it creates a special `data.frame` which are manipulated with the `adorn_*()` functions.

**But** sometimes you need to turn it back into a tibble:

```
gss_cat %>%  
  tabyl(marital) %>%  
  adorn_totals(c("row", "col")) %>%  
  untabyl()
```



# Creating beautiful tables in RMarkdown

There are **many** packages for creating beautiful tables in RMarkdown.

- Create very simple tables with `knitr::kable()`
- [Create fancy static tables with {gt}](#)
- Create fancy interactive tables with [{reactable}](#) or [{DT}](#)

For more, see <https://rfor.us/tables>





# Rounding

Can you help me better understand the round function? I don't understand the digits part? Does it only apply to decimals? What if you want to round to the nearest whole number what would you put? Or to round to the nearest 10?



# Rounding

```
round(14.5)
```

```
## [1] 14
```

The `round()` function rounds to the nearest **even** number



# Rounding

If you want to round 0.5 up, use `janitor::round_half_up()`

```
library(janitor)
round_half_up(14.5)
```

```
## [1] 15
```



# Git + GitHub



# Group Work

In a group, nominate one person to create a new project, add a local Git repository, and then push it to GitHub.

Have the nominated person share their screen and then walk through the steps as a group

Add any questions that come up to [this discussion thread](#).



# Git + GitHub Questions



# Next Week

1. Advanced data wrangling
2. The main thing to make sense of is the concept of tidy data (it's a hard concept, but worth the effort to figure it out!)
3. Project assignment: figure out ways your data is not tidy and tidy it (sounds simple, but it's not!)
4. You'll work in your GitHub repository from now on so you'll submit a link to the code in your repo for Charlie's review