Keyboard shortcuts

Run source line(s) in console: Command+Enter (Ctrl+Enter on Windows)

Insert assignment operator, <-: Alt+- (dash)

Insert pipe operator, %>%: Cmd+Shift+M (Ctrl+Shift+M on Windows)

Cancel / get unstuck: Escape key. If you forget to close a paranthesis, quote, etc., and your R prompt shows + instead of >, focus cursor on console, and hit the Escape key.

General setup / options

- Tools, Global Options:
 - Uncheck "Restore .RData into workspace at startup"
 - Set to Never: "Save workspace to .RData on exit: Never"
- Use Projects! Create a project with File New Project.
 - This creates a .Rproj file. This is just a metadata file that opens R running in that folder so R is running where your data lives.
 - File New File New R Script creates a new R script in your project folder. Save this script and write commands in a script. Use new scripts for new tasks/classes.

Packages

If you don't have a particular package installed already: install.packages(packagename). Only dplyr, readr, and tidyr are strictly required. Load packages in each script each time you start R/RStudio.

```
library(dplyr)
library(readr)
library(tidyr)
```

dplyr verbs

- filter(): Limits rows returns only rows matching conditions
- select(): Limits columns based on name, position, etc.
- mutate(): Adds new variables, modifies existing variables
- arrange(): Arranges data in ascending order (use desc(var) to arrange descending)
- summarize(): Reduces multiple values down to a single value
- group by(): Groups a data frame/tibble by one or more variables. Most useful with summarize().

The pipe: %>%

When you load the **dplyr** library you can use %>%, the *pipe*. Running x %>% f(args) is the same as f(x, args). If you wanted to run function f() on data x, then run function g() on that, then run function h() on that result: instead of nesting multiple functions, h(g(f(x))), it's preferable and more readable to create a chain or pipeline of functions: x %>% f() %>% g() %>% h(). Pipelines can be spread across multiple lines, with each line ending in %>% until the pipeline terminates. The keyboard shortcut for inserting %>% is Cmd+Shift+M on Mac, Ctrl+Shift+M on Windows.