```
library(tidyverse)
## -- Attaching packages ------
----- tidyverse 1.3.0 --
## ggplot2 3.2.1 purrr 0.3.3
                  dplyr 0.8.3
## tibble 2.1.3
                  stringr 1.4.0
## tidyr 1.0.0
## readr 1.3.1
                   forcats 0.4.0
## -- Conflicts ---------------
----- tidyverse_conflicts() --
## x dplyr::filter() masks stats::filter()
## x dplyr::lag() masks stats::lag()
reads2019 <- read csv("~/Downloads/Blogging A to Z/SaraReads2019 allrated.csv",
col names = TRUE)
## Parsed with column specification:
## cols(
   Title = col character(),
##
##
   Pages = col double(),
##
    date started = col character(),
   date read = col character(),
##
##
   Book.ID = col_double(),
   Author = col character(),
##
##
    Additional Authors = col character(),
##
   AverageRating = col double(),
##
   OriginalPublicationYear = col double(),
##
    read time = col double(),
   MyRating = col_double(),
##
##
   Gender = col double(),
##
   Fiction = col_double(),
##
   Childrens = col double(),
   Fantasy = col double(),
##
##
    SciFi = col double(),
##
    Mystery = col double(),
    SelfHelp = col_double()
##
##)
```

Using this dataset, I'm going create and modify multiple variables – I'll turn some of my genre flags into factors, which aids in data visualization; convert my start and finished dates from character to date variables; extract the day of the week I started and finished each book; and label books based on whether they were recently published (in the last five years) or older.

Notice that I both created the Age variable and turned it into a factor, so it's okay to use a newly created variable in the same mutate wrap. I also converted my character dates into date format so that I could go on to extract day of the week (wday, a function from lubridate). In fact, this block of mutate code includes both base R and tidyverse functions. I could even pull in functions from other R packages. Basically any code you used to write as data\$variable <- f(data\$variable), you can embed in mutate as:

```
data <- data %>%
mutate(variable = f(variable))
```

Sure, it seems more verbose when you're doing one quick change, but changing datasets often involve multiple variables, and may require you to use mutate with filters or group_bys. That makes tidyverse much more powerful and cleaner.