Titanic exercise

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Install required packages

```
# install.packages("readr")
# install.packages("dplyr")
# install.packages("ggplot2")
```

Load required libraries

```
library(readr)
library(dplyr)
library(ggplot2)
```

Read the data set (uses readr)

```
column_types <- cols(
   Survived = col_factor(),
   Pclass = col_factor(ordered = TRUE),
   Sex = col_factor(),
   Embarked = col_factor()
)
train <- read_csv("./kaggle/titanic/train.csv", col_types = column_types)</pre>
```

Rename the factors to be human readable (uses dplyr)

View train tibble

```
train
```

```
## # A tibble: 891 x 12
```

```
##
     PassengerId Survived Pclass Name Sex
                                                Age SibSp Parch Ticket Fare Cabin
                                 <chr> <fct> <dbl> <dbl> <chr> <dbl> <chr>
##
           <dbl> <fct>
                          <fct>
               1 No
                                                              0 A/5 2~ 7.25 <NA>
##
                          3rd
                                 Braun~ male
                                                 22
   2
               2 Yes
                                 Cumin~ fema~
                                                 38
                                                              0 PC 17~ 71.3 C85
##
                          1st
                                                        1
                                 Heikk~ fema~
                                                              0 STON/~ 7.92 <NA>
##
               3 Yes
                          3rd
                                                 26
                                                        0
##
   4
               4 Yes
                          1st
                                 Futre~ fema~
                                                 35
                                                        1
                                                              0 113803 53.1 C123
##
   5
               5 No
                          3rd
                                 Allen~ male
                                                 35
                                                        0
                                                              0 373450 8.05 <NA>
                                 Moran~ male
               6 No
                                               NA
                                                        0
                                                              0 330877 8.46 <NA>
##
   6
                          3rd
##
   7
               7 No
                          1st
                                 McCar~ male
                                                 54
                                                        0
                                                              0 17463 51.9 E46
##
               8 No
                                 Palss~ male
                                                2
                                                        3
                                                              1 349909 21.1
                                                                            <NA>
   8
                          3rd
##
   9
               9 Yes
                          3rd
                                 Johns~ fema~
                                                 27
                                                        0
                                                              2 347742 11.1
                                                                            <NA>
                                 Nasse~ fema~
                                                              0 237736 30.1 <NA>
## 10
              10 Yes
                          2nd
                                                 14
                                                        1
## # ... with 881 more rows, and 1 more variable: Embarked <fct>
```

Plots and stuff (uses ggplot2)

```
ggplot(data = train) + geom_point(mapping = aes(
    x = Age,
    y = Fare,
    shape = Sex,
    color = Survived
))
```

