

Example Walkthrough

NYC Data Science Academy

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Header 1

Header 2

Header 3

Example Workflow of the shiny project

- Pick a dataset
- Save the dataset to a sqlite database
- Build user interface in ui.R
- Build server backend in server.R
 - Write query to extract the data from database according to user input
 - Use dplyr/tidyr to preprocess the data if needed
 - Use ggplot2/plotly/googleVis/leaflet to visualize your data

R code chunks

```
summary(cars)
```

```
##      speed      dist
##  Min.   : 4.0    Min.   : 2.00
##  1st Qu.:12.0    1st Qu.: 26.00
##  Median :15.0    Median : 36.00
##  Mean   :15.4    Mean   : 42.98
##  3rd Qu.:19.0    3rd Qu.: 56.00
##  Max.   :25.0    Max.   :120.00
```

```
library(dplyr)
```

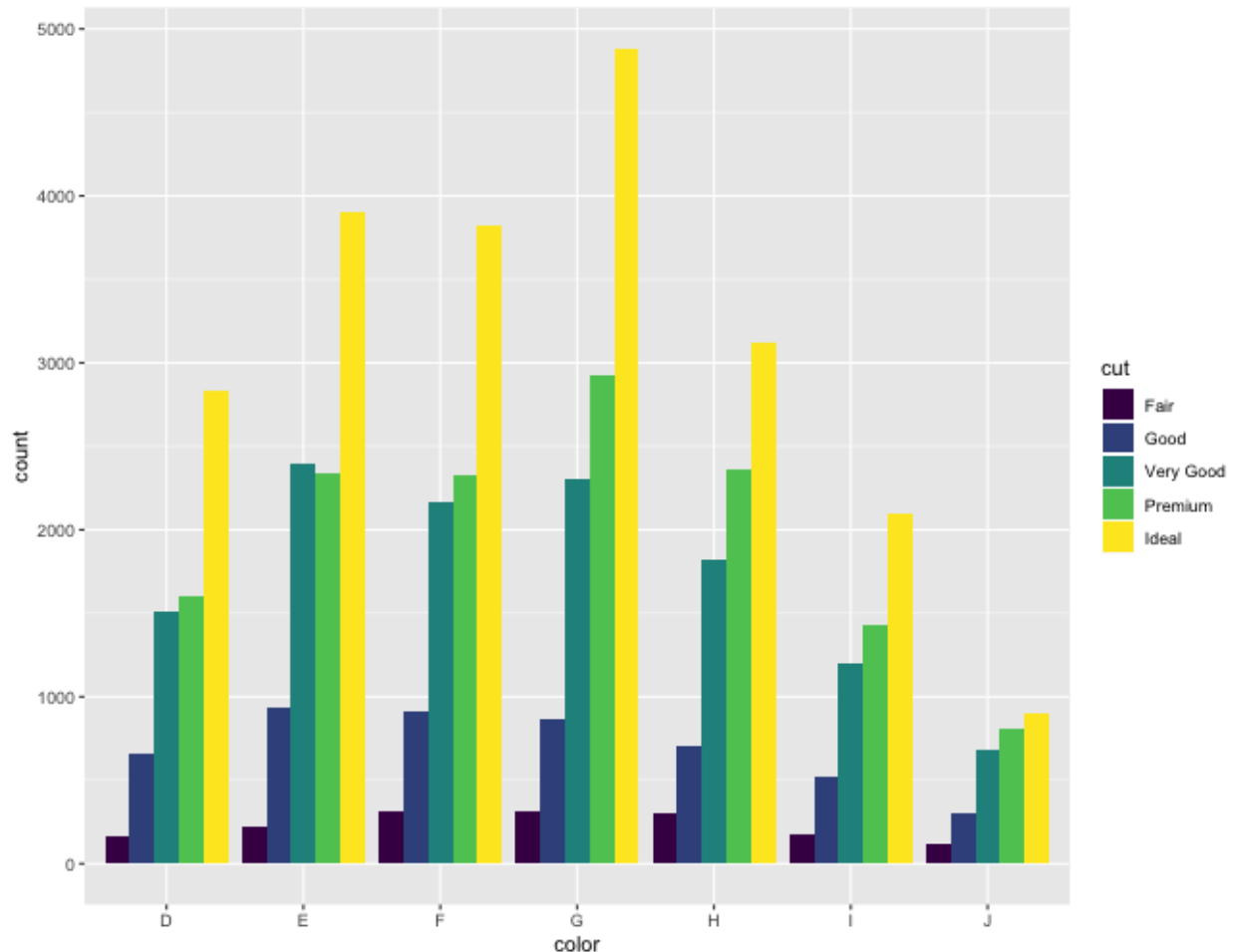
```
##
## Attaching package: 'dplyr'

## The following objects are masked from 'package:stats':
##
##   filter, lag

## The following objects are masked from 'package:base':
##
##   intersect, setdiff, setequal, union
```

```
library(ggplot2)

ggplot(data = diamonds, aes(x = color)) +
  geom_bar(aes(fill = cut), position = "dodge")
```



Introduction

- NYC's Department of Health and Mental Hygiene (DOHMH) conducts unannounced inspections of restaurants at least once a year to check food handling, food temperature, personal hygiene, and vermin control. Since 2010, NYC restaurants have to prominently post their Grade (e.g. A/B/C) which empowers diners with decision-making information and incentivizes establishments to improve their hygiene.
- Download the csv file from [here](#) and rename it to `data.csv`. Move the file to the same directory of your markdown file and use relative path to read it.

Load dataset

You need to change `eval=TRUE` after you move the `data.csv` in the same directory

```
library(data.table)
raw.df <- fread("./data.csv", stringsAsFactors = F)
raw.df <- as.data.frame(raw.df)
str(raw.df)
```