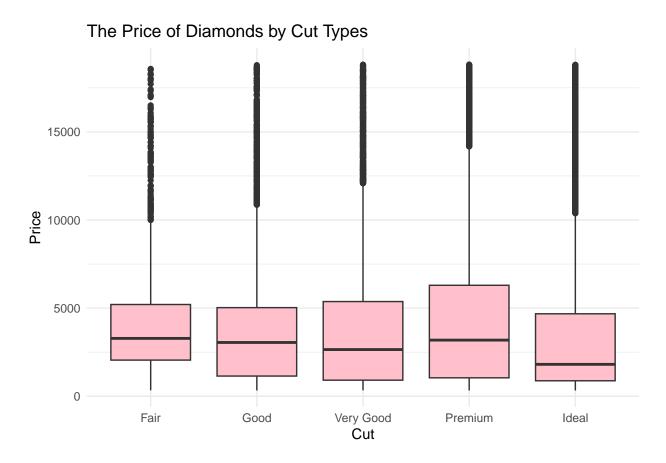
DataViz_Homework

PakkapornCh

2023-07-10

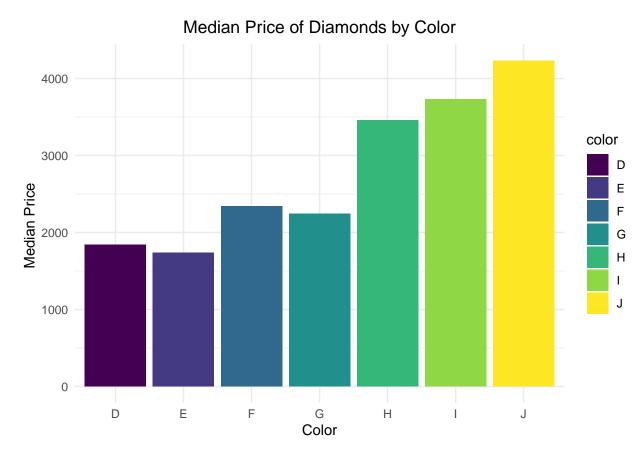
```
library(tidyverse)
## -- Attaching core tidyverse packages ----- tidyverse 2.0.0 --
## v dplyr
                                     2.1.4
              1.1.2
                        v readr
## v forcats 1.0.0
                         v stringr
                                     1.5.0
## v ggplot2 3.4.2
                         v tibble
                                     3.2.1
## v lubridate 1.9.2
                         v tidyr
                                     1.3.0
## v purrr
              1.0.1
## -- Conflicts -----
                                          ------ tidyverse_conflicts() --
## x dplyr::filter() masks stats::filter()
## x dplyr::lag()
                     masks stats::lag()
## i Use the conflicted package (<a href="http://conflicted.r-lib.org/">http://conflicted.r-lib.org/</a>) to force all conflicts to become error
library(ggplot2)
```

1 The Price of Diamonds by Cut Types



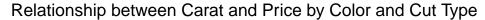
There are many outliers in diamond prices for each cut type, which means factors other than cut type influence the prices of diamonds.

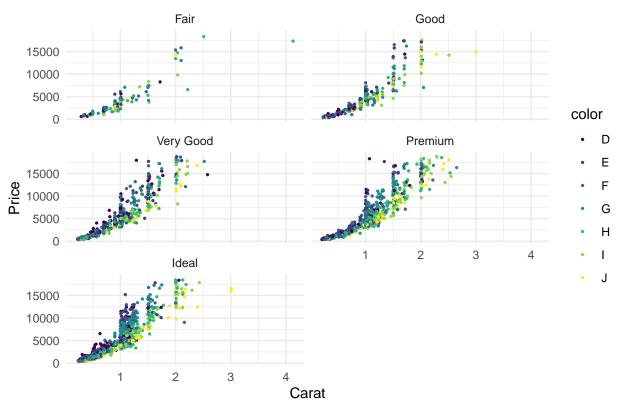
2 Median Price of Diamonds by Color



Color J has the highest median price, and color E has the lowest median price.

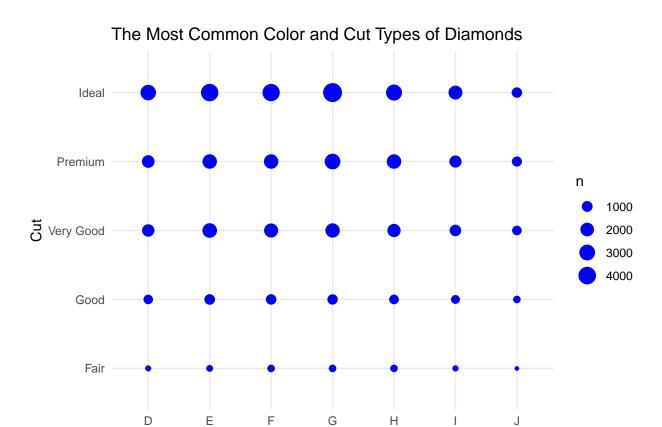
3 Relationship between Carat and Price by Color and Cut Type





Prices vary according to carat. Color J tends to have a lower price than other colors at the same carat. Color D tends to have a higher price than other colors at the same carat.

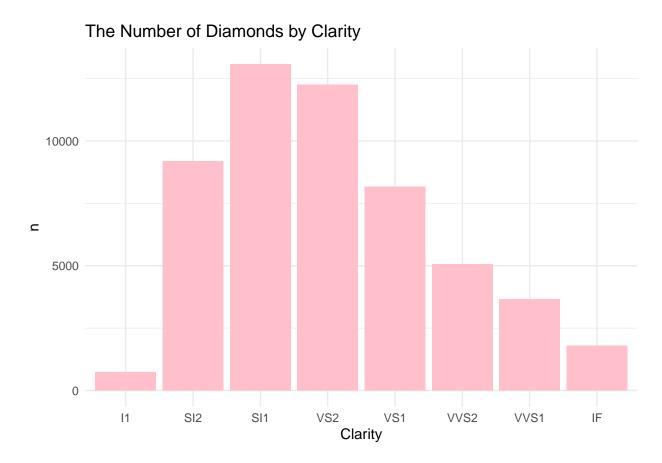
4 The Most Common Color and Cut Types of Diamonds



The group of ideal-cut-type and G-color diamonds has the largest number.

5 The Number of Diamonds by Clarity

Color



Clarity SI1 has the largest number, followed by VS2 and SI1. Clarity I1 has the smallest number.