Bar graphs

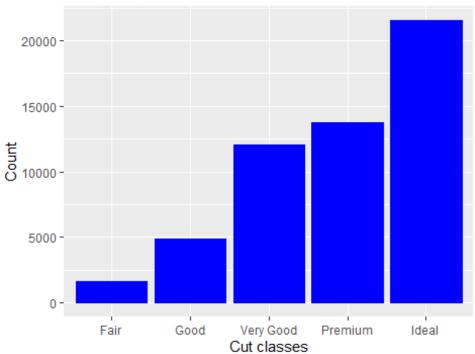
D K

2021-06-22

```
library(tidyverse)
## -- Attaching packages ------
----- tidyverse 1.3.0 --
## v ggplot2 3.3.3
                    v purrr
                             0.3.4
## v tibble 3.0.3
                    v dplyr
                             1.0.2
## v tidyr
           1.1.2
                    v stringr 1.4.0
## v readr 1.3.1
                    v forcats 0.5.0
## Warning: package 'ggplot2' was built under R version 4.0.5
## -- Conflicts ------
----- tidyverse_conflicts() --
## x dplyr::filter() masks stats::filter()
## x dplyr::lag() masks stats::lag()
# Read the diamonds dataset
data(diamonds)
# Summary statistics of diamonds dataset
summary(diamonds)
##
      carat
                                  color
                                             clarity
                                                             depth
                        cut
## Min. :0.2000
                  Fair
                          : 1610
                                  D: 6775
                                           SI1
                                                 :13065
:43.00
                          : 4906
## 1st Qu.:0.4000
                                           VS2
                  Good
                                  E: 9797
                                                 :12258
                                                         1st
Qu.:61.00
## Median :0.7000
                  Very Good:12082
                                                 : 9194
                                                         Median
                                  F: 9542
                                           SI2
:61.80
## Mean
         :0.7979
                  Premium :13791
                                  G:11292
                                           VS1
                                                 : 8171
                                                         Mean
:61.75
## 3rd Qu.:1.0400
                  Ideal
                          :21551
                                  H: 8304
                                           VVS2
                                                 : 5066
                                                         3rd
Qu.:62.50
## Max.
         :5.0100
                                  I: 5422
                                           VVS1
                                                 : 3655
                                                         Max.
:79.00
##
                                  J: 2808
                                           (Other): 2531
##
      table
                     price
                               Min. : 0.000
                                              Min. : 0.000
## Min.
        :43.00
                 Min. : 326
## 1st Qu.:56.00
                 1st Qu.: 950
                               1st Qu.: 4.710
                                              1st Qu.: 4.720
## Median :57.00
                 Median : 2401
                               Median : 5.700
                                              Median : 5.710
                               Mean : 5.731
## Mean
         :57.46
                 Mean : 3933
                                              Mean : 5.735
## 3rd Qu.:59.00
                 3rd Qu.: 5324 3rd Qu.: 6.540
                                              3rd Qu.: 6.540
```

```
Max.
         :95.00
                   Max.
                          :18823
                                   Max. :10.740
                                                           :58.900
                                                    Max.
##
##
         Z
  Min. : 0.000
##
   1st Qu.: 2.910
##
##
   Median : 3.530
## Mean
         : 3.539
   3rd Qu.: 4.040
##
## Max.
          :31.800
##
# Frequency of diamond cut within cut classes
# Variables used - x-axis cut
ggplot(diamonds, aes(x=cut)) +
  geom_bar(color="blue", fill="blue") +
  labs (x = "Cut classes",
        y = "Count",
        title = "Frequency of diamond cut within cut classes") +
  theme(legend.position="top")
```

Frequency of diamond cut within cut classes



```
title = "Total price of diamond cut within cut classes") +
theme(legend.position="top")
```

