

# Report\_Diamonds

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## Summary of Diamonds

```
library(tidyverse)
```

```
## -- Attaching packages ----- tidyverse 1.3.2 --
## v ggplot2 3.4.0      v purrr   0.3.5
## v tibble  3.1.8      v dplyr  1.0.10
## v tidyr   1.2.1      v stringr 1.4.1
## v readr   2.1.3      v forcats 0.5.2
## -- Conflicts ----- tidyverse_conflicts() --
## x dplyr::filter() masks stats::filter()
## x dplyr::lag()    masks stats::lag()
```

```
summary(diamonds$cut)
```

```
##      Fair      Good Very Good   Premium    Ideal
##      1610      4906      12082      13791      21551
```

```
summary(diamonds$price)
```

```
##      Min. 1st Qu.  Median      Mean 3rd Qu.      Max.
##      326      950      2401      3933      5324      18823
```

## R Markdown

This is an R Markdown document. Markdown is a simple formatting syntax for authoring HTML, PDF, and MS Word documents. For more details on using R Markdown see <http://rmarkdown.rstudio.com>.

When you click the **Knit** button a document will be generated that includes both content as well as the output of any embedded R code chunks within the document. You can embed an R code chunk like this:

```
summary(diamonds)
```

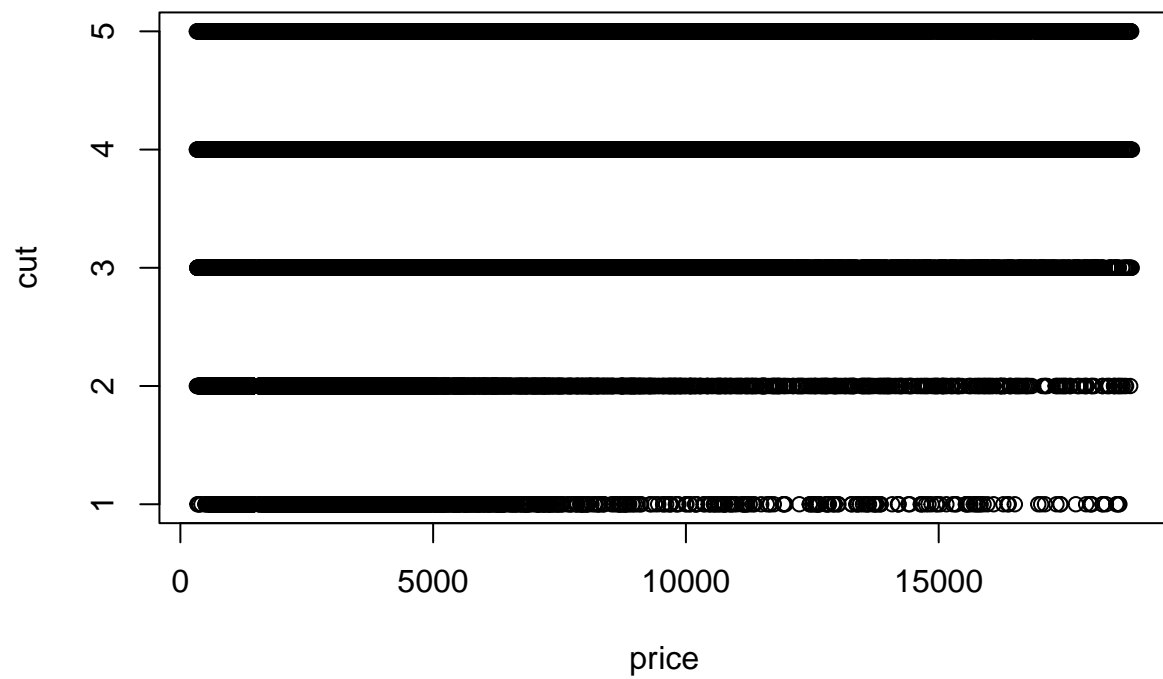
```
##      carat      cut      color      clarity      depth
## Min.   :0.2000 Fair      : 1610 D: 6775 SI1      :13065 Min.   :43.00
## 1st Qu.:0.4000 Good      : 4906 E: 9797 VS2      :12258 1st Qu.:61.00
## Median :0.7000 Very Good:12082 F: 9542 SI2      : 9194 Median :61.80
```

```
## 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 x y
## Min. :43.00 Min. : 326 Min. : 0.000 Min. : 0.000
## 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 :57.46 Mean : 3933 Mean : 5.731 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 Max. :58.900
##
## z
## Min. : 0.000
## 1st Qu.: 2.910
## Median : 3.530
## Mean : 3.539
## 3rd Qu.: 4.040
## Max. :31.800
##
```

## Including Plots

You can also embed plots, for example:

```
library(tidyverse)
plot(diamonds$price,diamonds$cut,xlab = "price",ylab = "cut")
```



## Figures

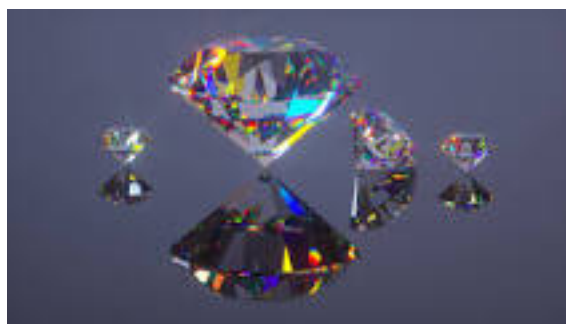


Figure 1: alt-text

Note that the `echo = FALSE` parameter was added to the code chunk to prevent printing of the R code that generated the plot.