

My R Markdown report

AP

2025-10-26

Data analysis using tidyverse package

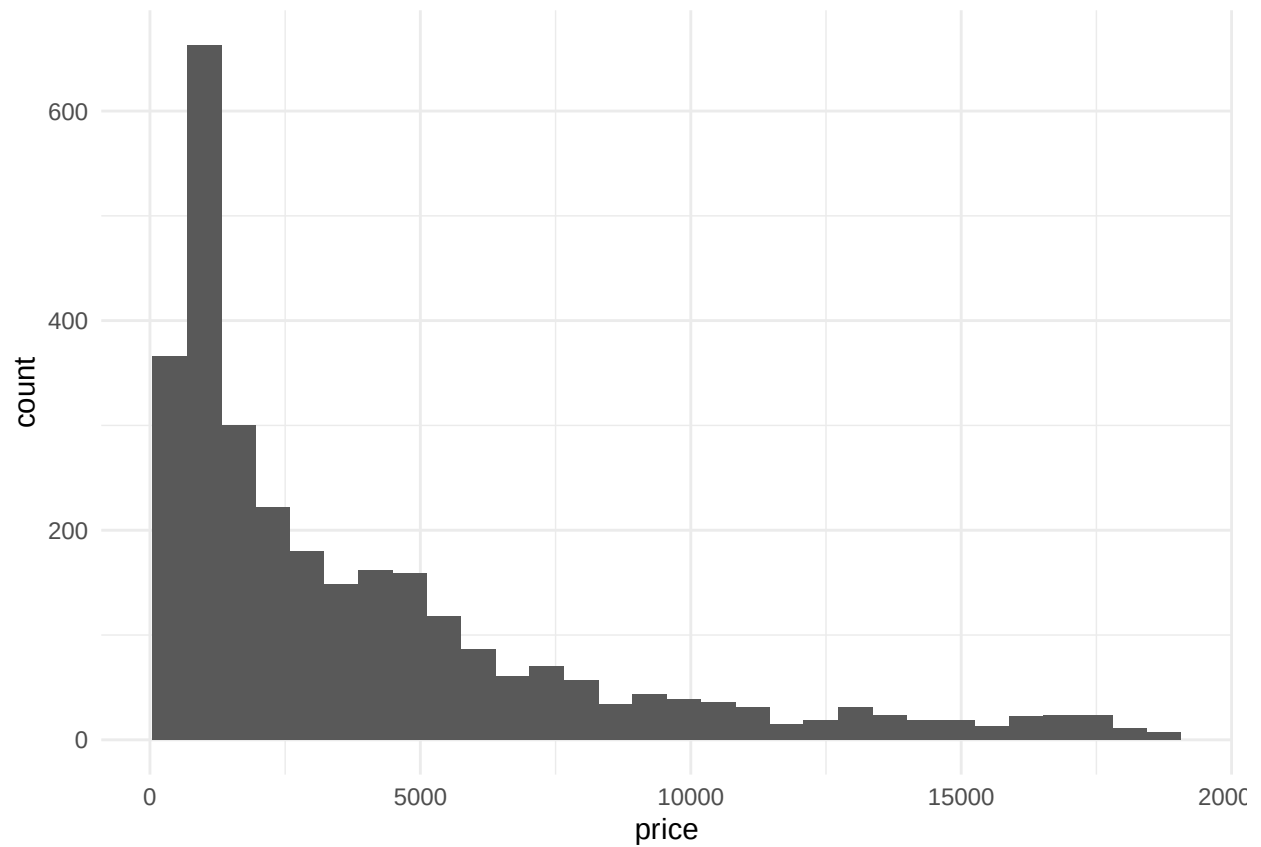
Today I will use R to manipulate data and `package` to do all the work.

```
library(tidyverse)
diamonds %>%
  select(price, cut, color, carat) %>%
  head(10)
```

```
## # A tibble: 10 x 4
##   price cut      color carat
##   <int> <ord>    <ord> <dbl>
## 1   326 Ideal      E     0.23
## 2   326 Premium    E     0.21
## 3   327 Good       E     0.23
## 4   334 Premium    I     0.29
## 5   335 Good       J     0.31
## 6   336 Very Good  J     0.24
## 7   336 Very Good  I     0.24
## 8   337 Very Good  H     0.26
## 9   337 Fair       E     0.22
## 10  338 Very Good  H     0.23
```

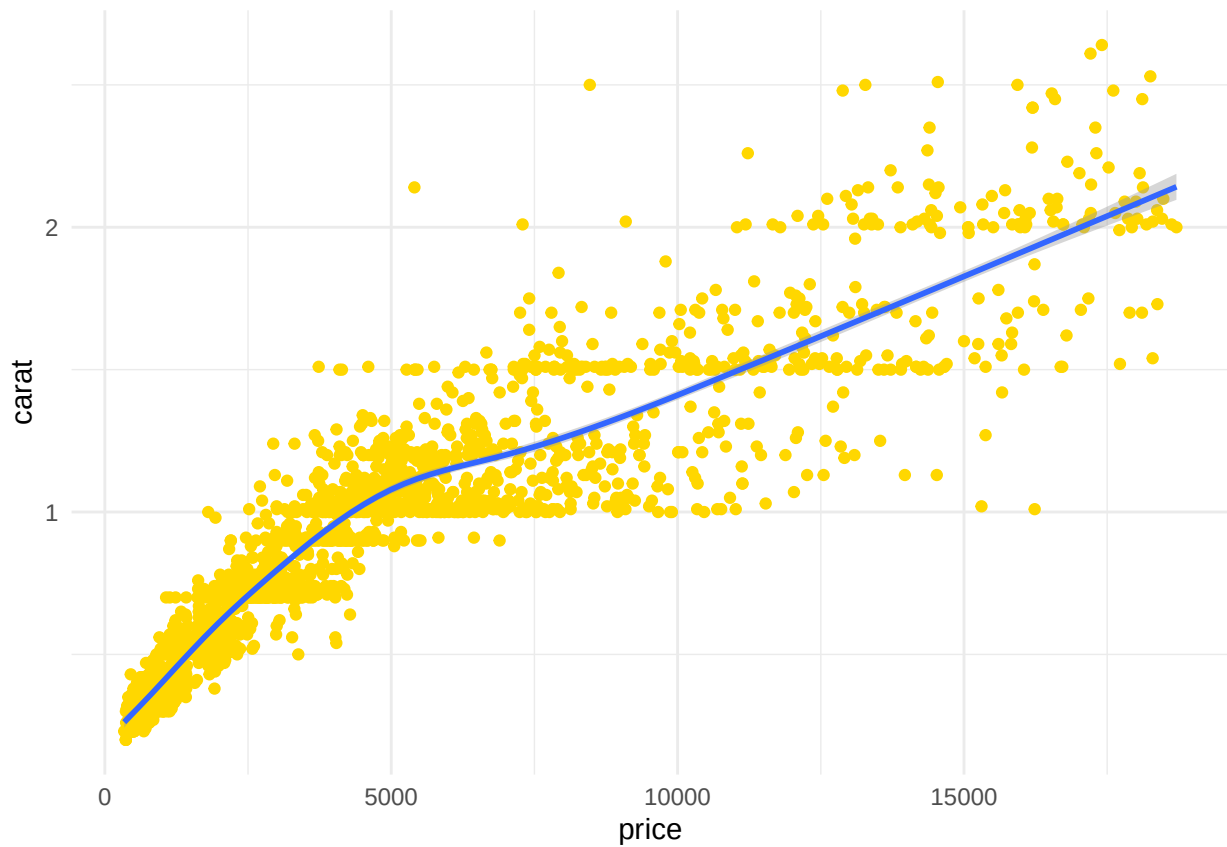
A histogram price chart

```
mini_dia <- sample_n(diamonds, 3000)
ggplot(data = mini_dia,
  mapping = aes(x=price)) +
  geom_histogram() +
  theme_minimal()
```



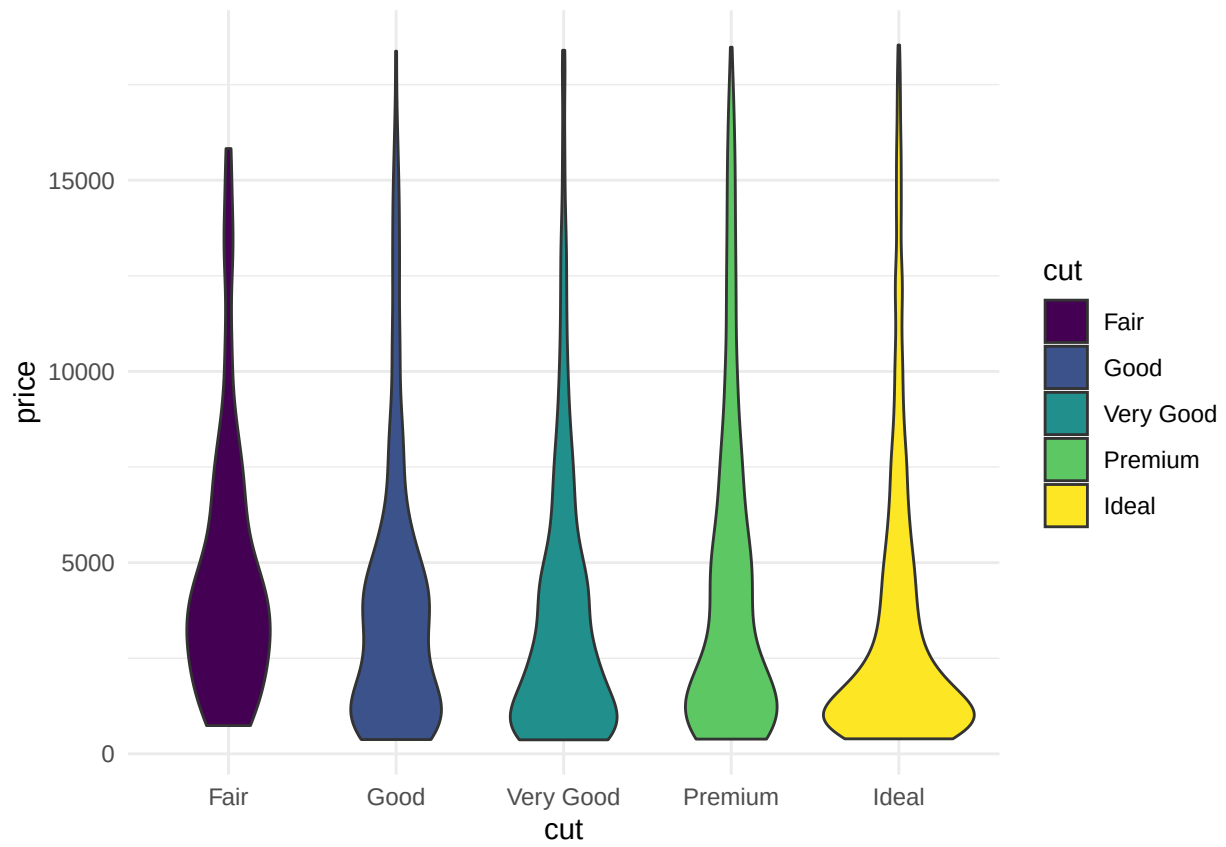
sample price x carat

```
mini_dia <- sample_n(diamonds, 3000)
ggplot(mini_dia, aes(x = price, y=carat)) +
  geom_point(color="gold") +
  geom_smooth() +
  theme_minimal()
```



sample of distribution

```
mini_dia <- sample_n(diamonds, 3000)
ggplot(data = mini_dia,
       mapping = aes(x=cut, y=price, fill=cut)) +
  geom_violin() +
  theme_minimal()
```



-THIS IS THE END OF THE REPORT-