

# Data Visualization Bootcamp Homework

Pueng

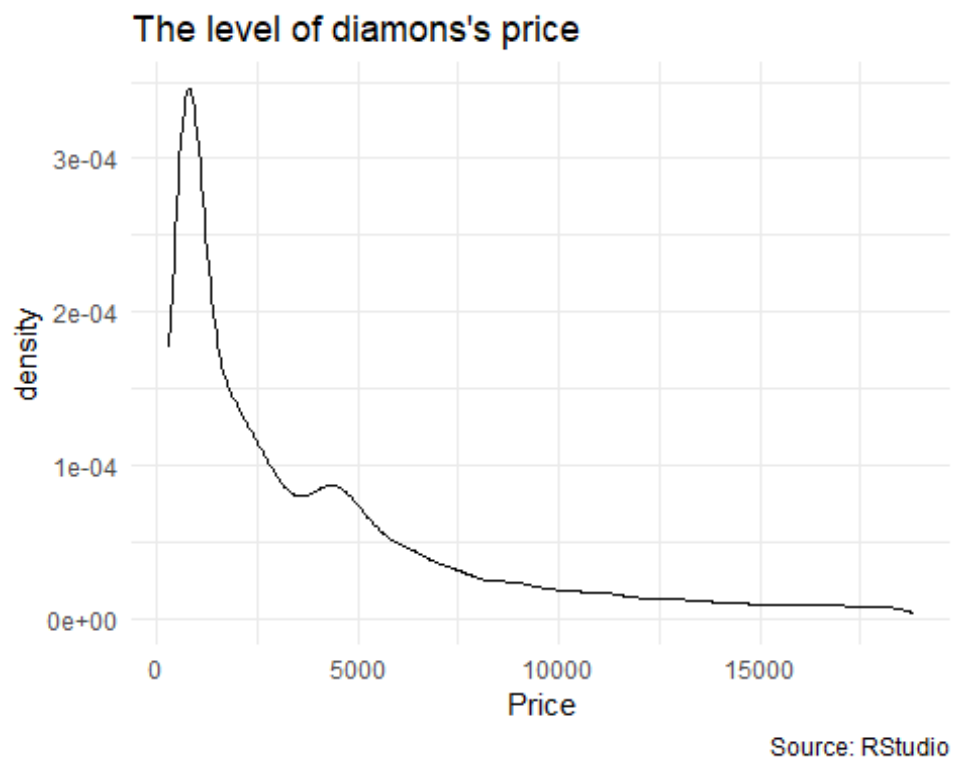
2023-08-06

## Instruction

use diamonds dataset to create 5 charts. knit pdf and submit in discord.

### Add your first chart

```
library(ggplot2)
ggplot(diamonds, aes(price))+
  geom_density() +
  theme_minimal()+
  labs(
    title = "The level of diamons's price",
    x = "Price",
    caption = "Source: RStudio"
  )
```

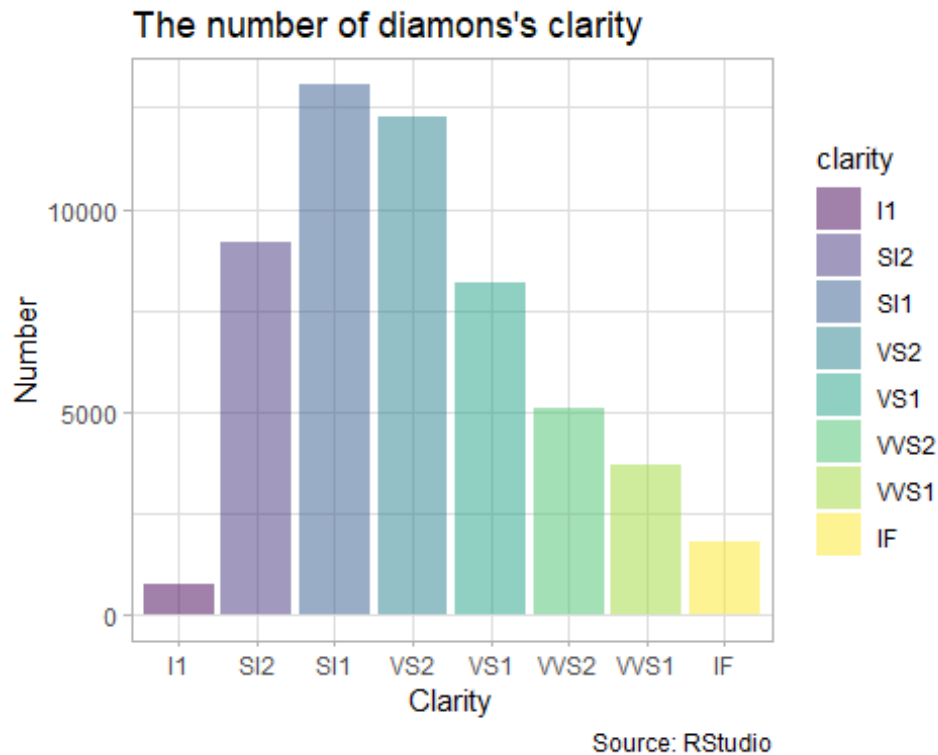


```
library(ggplot2)
ggplot(diamonds,
```

```

aes(clarity, fill = clarity))+
geom_bar(position="stack",alpha=0.5) +
theme_light()+
  labs(
    title = "The number of diamons's clarity",
    x = "Clarity",
    y = "Number",
    caption = "Source: RStudio"
  )

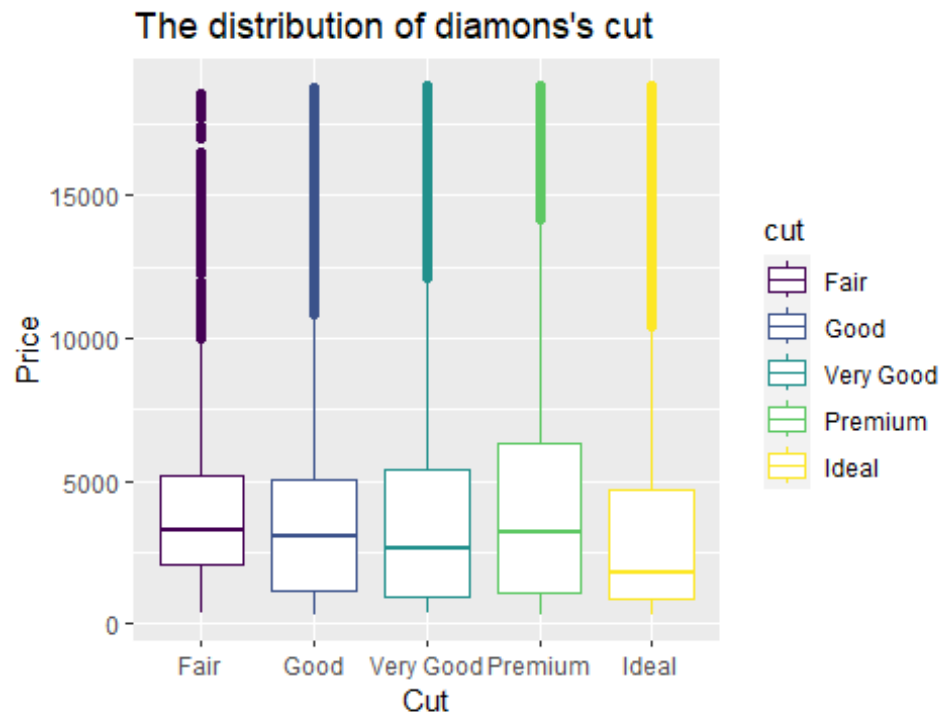
```



```

ggplot(diamonds,
  aes(x=cut, y=price, col = cut)) +
  geom_boxplot()+
  labs(
    title = "The distribution of diamons's cut",
    x = "Cut",
    y = "Price",
    caption = "Source: RStudio"
  )

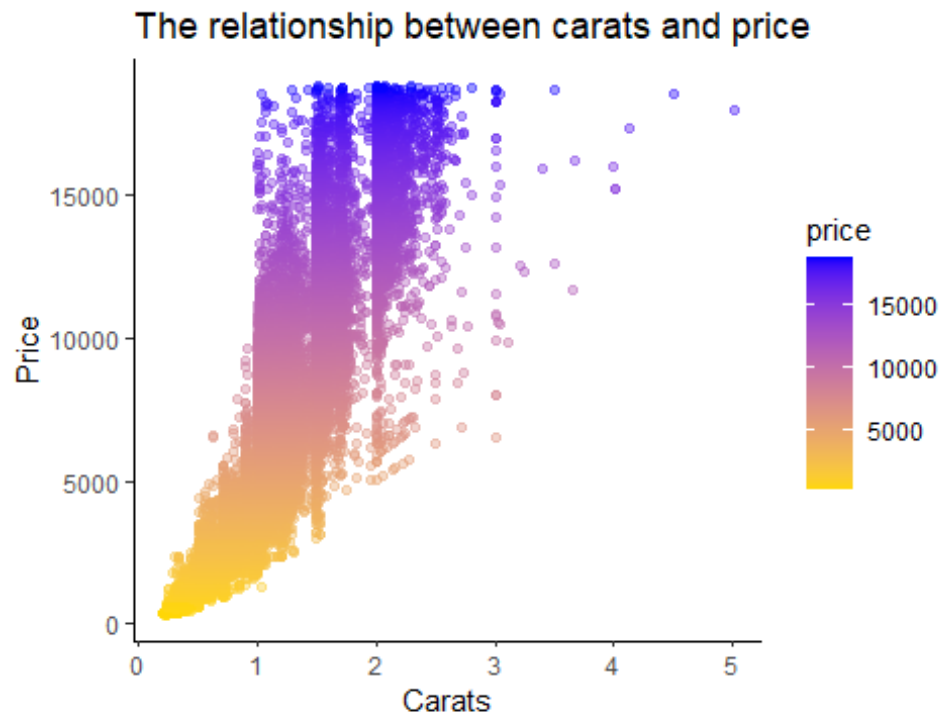
```



Source: RStudio

```
ggplot(diamonds, aes(carat, price, col = price)) +
  geom_point(alpha=0.4) +
  theme_classic() +
  scale_color_gradient(low="gold",
                      high="blue")+

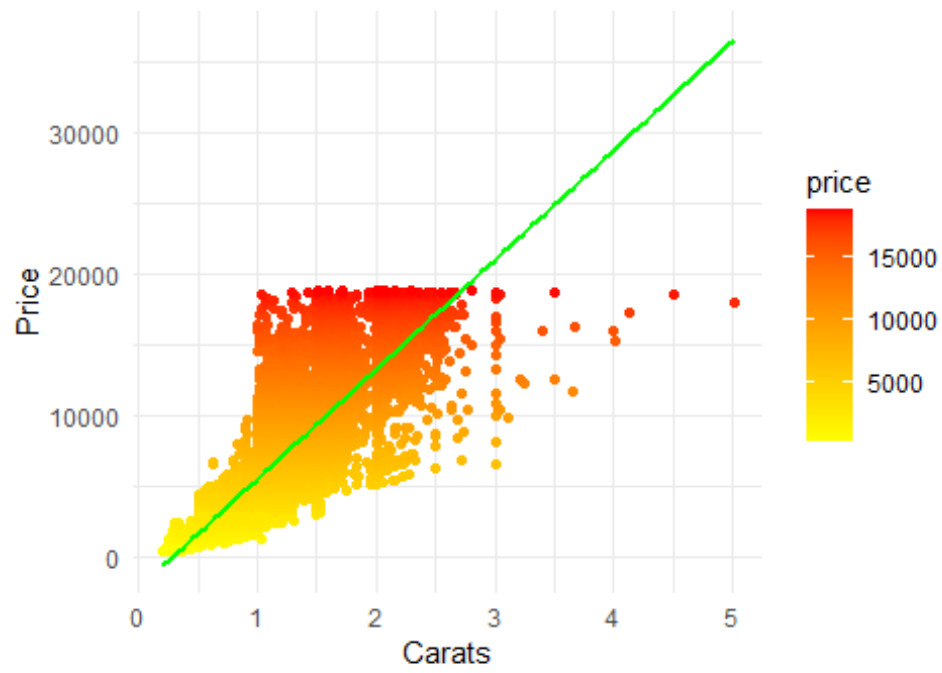
  labs(
    title = "The relationship between carats and price",
    x = "Carats",
    y = "Price",
    caption = "Source: RStudio"
  )
```



Source: RStudio

```
ggplot(diamonds, aes(carat, price, col = price)) +  
  geom_point() +  
  scale_color_gradient(low = "yellow",  
                       high = "red") +  
  geom_smooth(method = "lm",  
              col = "green") +  
  theme_minimal() +  
  labs(  
    title = "The impact of carats on price",  
    x = "Carats",  
    y = "Price",  
    caption = "Source: RStudio"  
  )  
## `geom_smooth()` using formula = 'y ~ x'
```

The impact of carats on price



Source: RStudio