Homework of Data Viz

Nink

Data Viz Batch 6

```
install.packages(
   c("tidyverse", "patchwork","lubridate","ggthemes","ggplot2")
)
```

```
## Installing packages into '/cloud/lib/x86_64-pc-linux-gnu-library/4.2'
## (as 'lib' is unspecified)
```

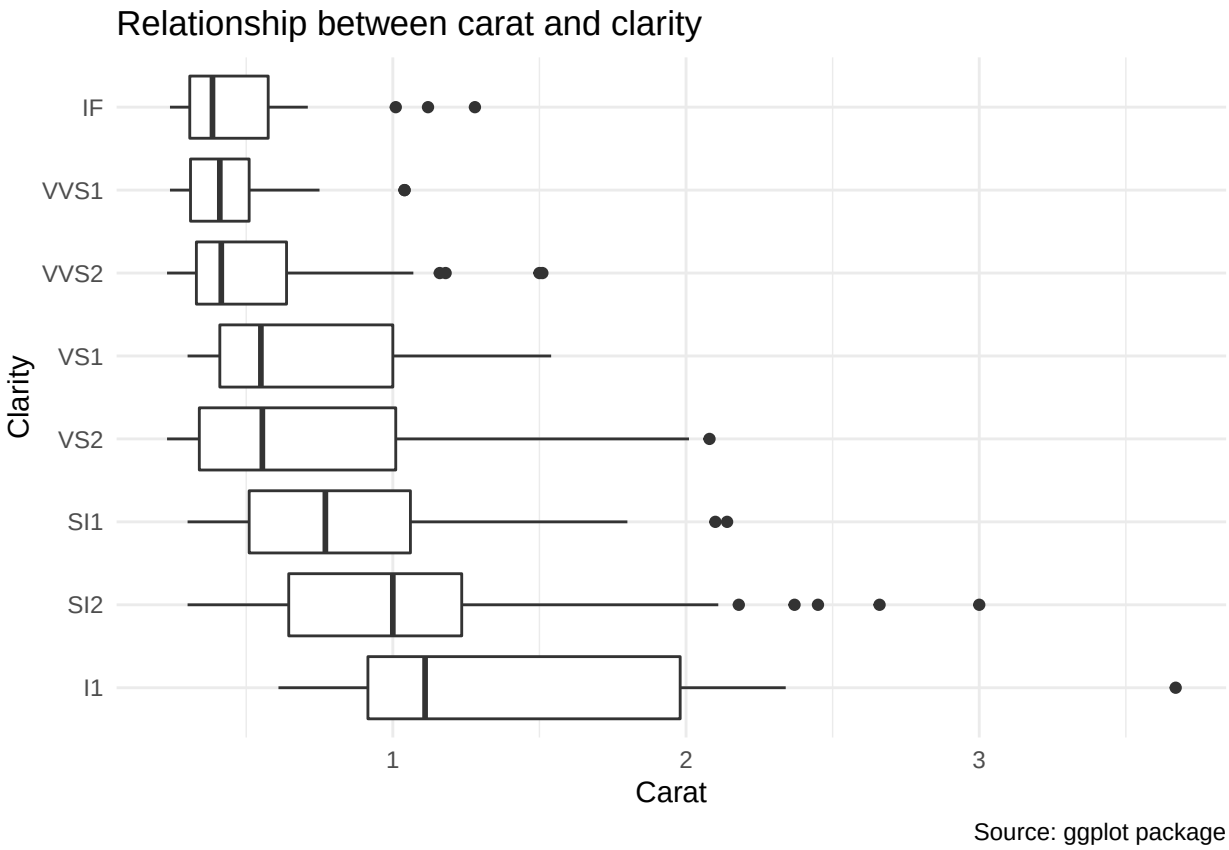
```
library(tidyverse)
```

```
## -- Attaching packages --------------------------------------- tidyverse 1.3.2 --
## v ggplot2 3.3.6      v purrr   0.3.4
## v tibble  3.1.8      v dplyr   1.0.10
## v tidyr   1.2.1      v stringr 1.4.1
## v readr   2.1.2      v forcats 0.5.2
## -- Conflicts ------------------------------------------ tidyverse_conflicts() --
## x dplyr::filter() masks stats::filter()
## x dplyr::lag()    masks stats::lag()
```

```
library(patchwork)
library(ggplot2)
library(ggthemes)
```

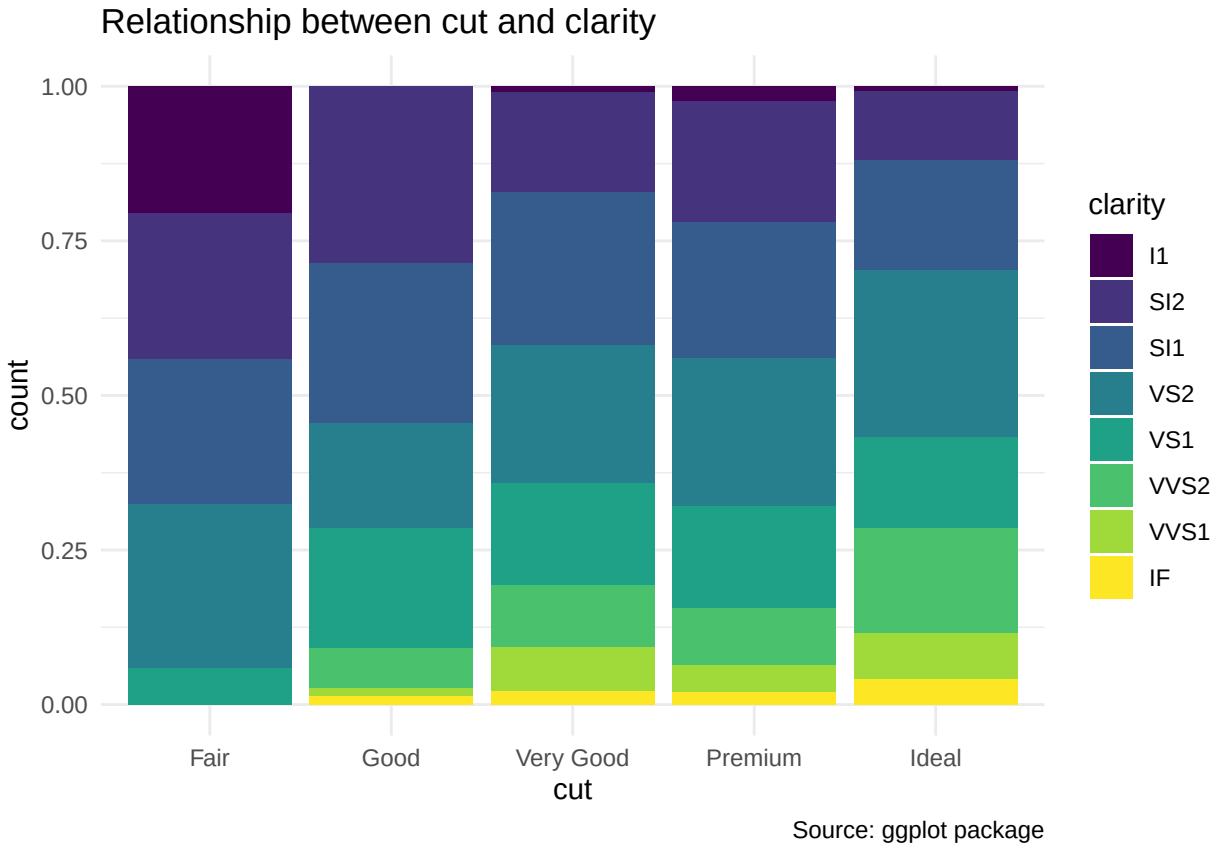
Create New Viz 1

```
set.seed(40)
ggplot(sample_n(diamonds,500), aes(carat, clarity)) +
  geom_boxplot() +
  labs(
    title = "Relationship between carat and clarity",
    x ="Carat",
    y ="Clarity",
    caption="Source: ggplot package"
  ) +
  theme_minimal()
```



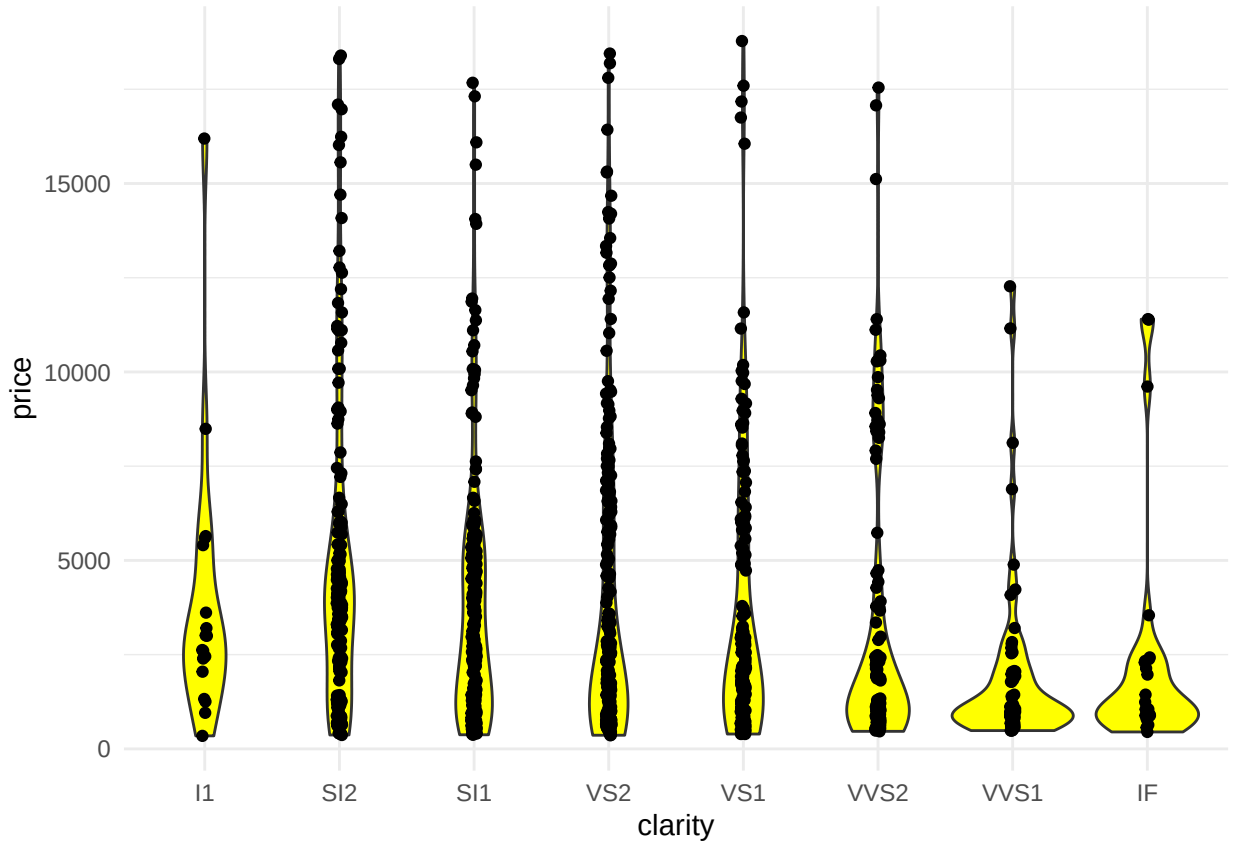
Create New Viz 2

```
set.seed(40)
ggplot(sample_n(diamonds,1000), aes(cut, fill = clarity)) +
  geom_bar(position = "fill") +
  labs(
    title = "Relationship between cut and clarity",
    caption="Source: ggplot package"
  ) +
  theme_minimal()
```



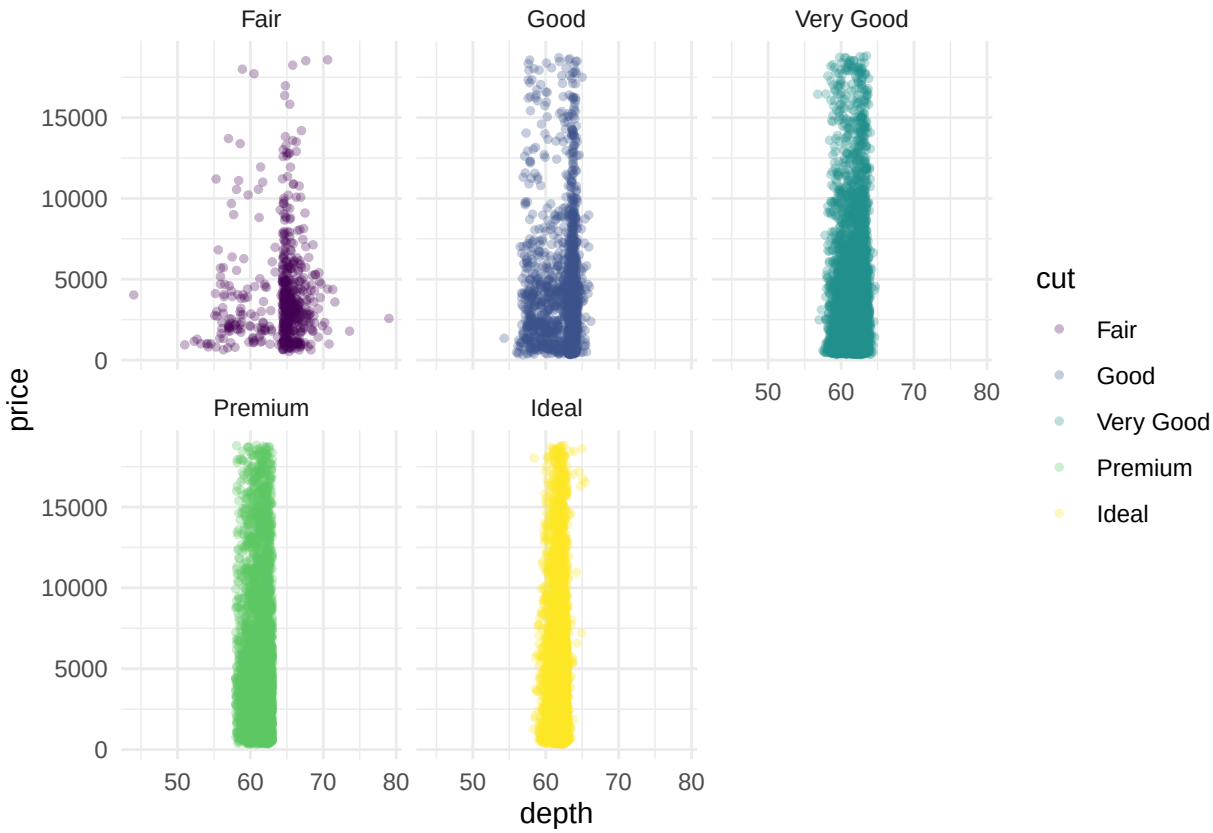
Create New Viz 3

```
set.seed(40)
ggplot(sample_n(diamonds,1000), aes(clarity, price)) +
  geom_violin(fill = "yellow") +
  geom_jitter(width=0.02) +
  theme_minimal()
```



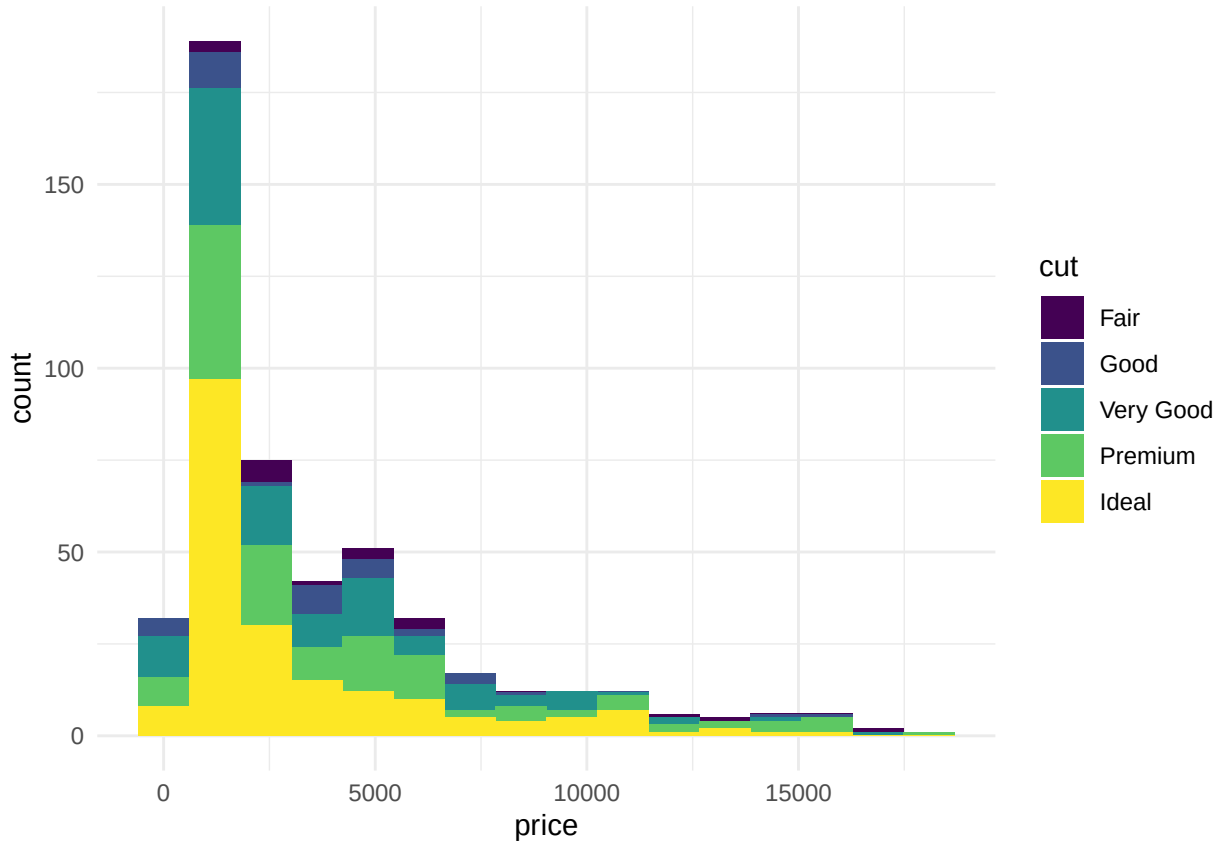
Create New Viz 4

```
set.seed(40)
diamonds %>%
  sample_n(20000) %>%
  ggplot(aes(depth, price, color=cut)) +
  geom_point(size=1,alpha=0.3) +
  theme_minimal() +
  facet_wrap(~cut, ncol=3)
```



Create New Viz 5

```
set.seed(40)
diamonds %>%
  sample_n(500) %>%
  ggplot( aes(price, fill= cut)) +
    geom_histogram(bins=16) +
    theme_minimal()
```


150
100
50
0
count
0
5000
10000
15000
price
cut
Fair
Good
Very Good
Premium
Ideal