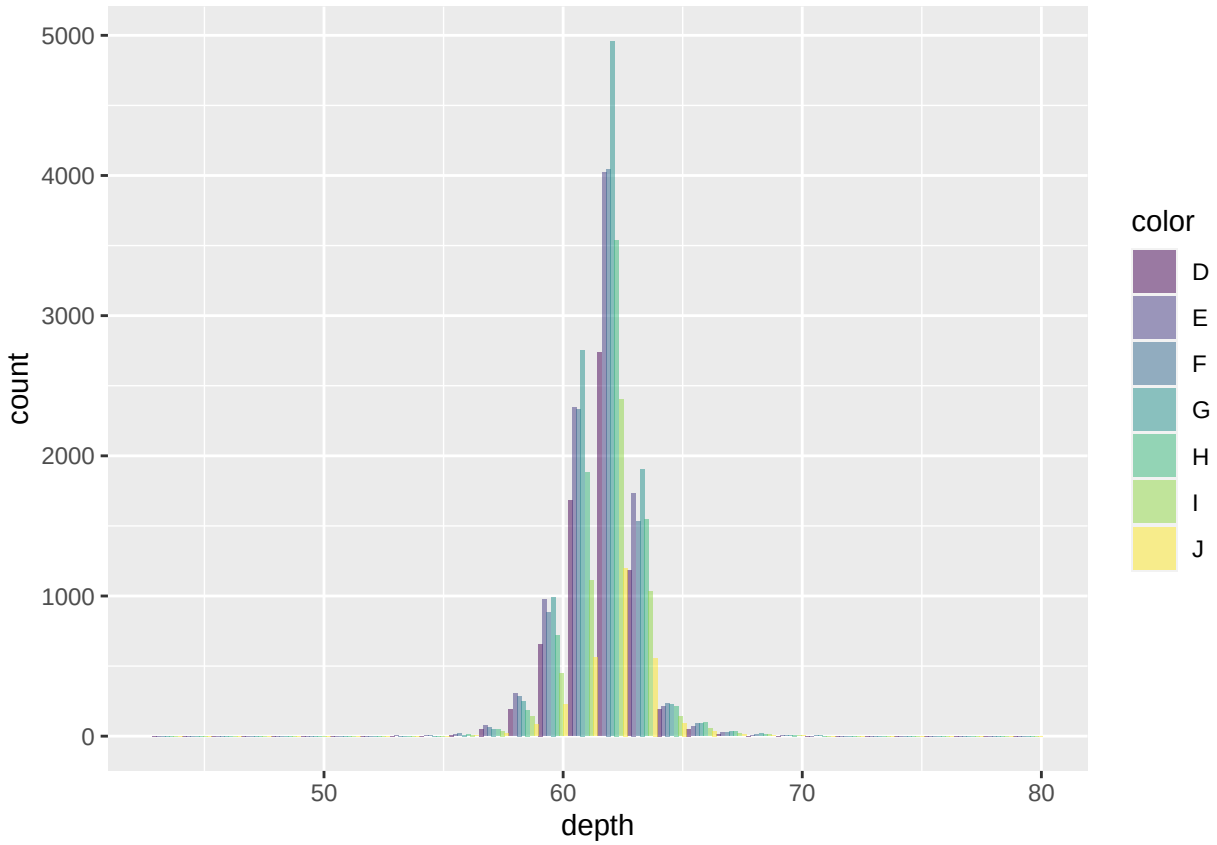
R Notebook

```
library(tidyverse)
```

```
## -- Attaching packages --------------------------------------- tidyverse 1.3.2 --
## v ggplot2 3.4.0      v purrr   1.0.1
## v tibble  3.1.8      v dplyr   1.0.10
## v tidyr   1.2.1      v stringr 1.5.0
## 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()
```

```
library(ggplot2)
#Chart 1 (Histogram)
diamonds %>%
  ggplot(aes(depth, fill = color)) + geom_histogram(alpha = 0.5,position = "dodge")
```

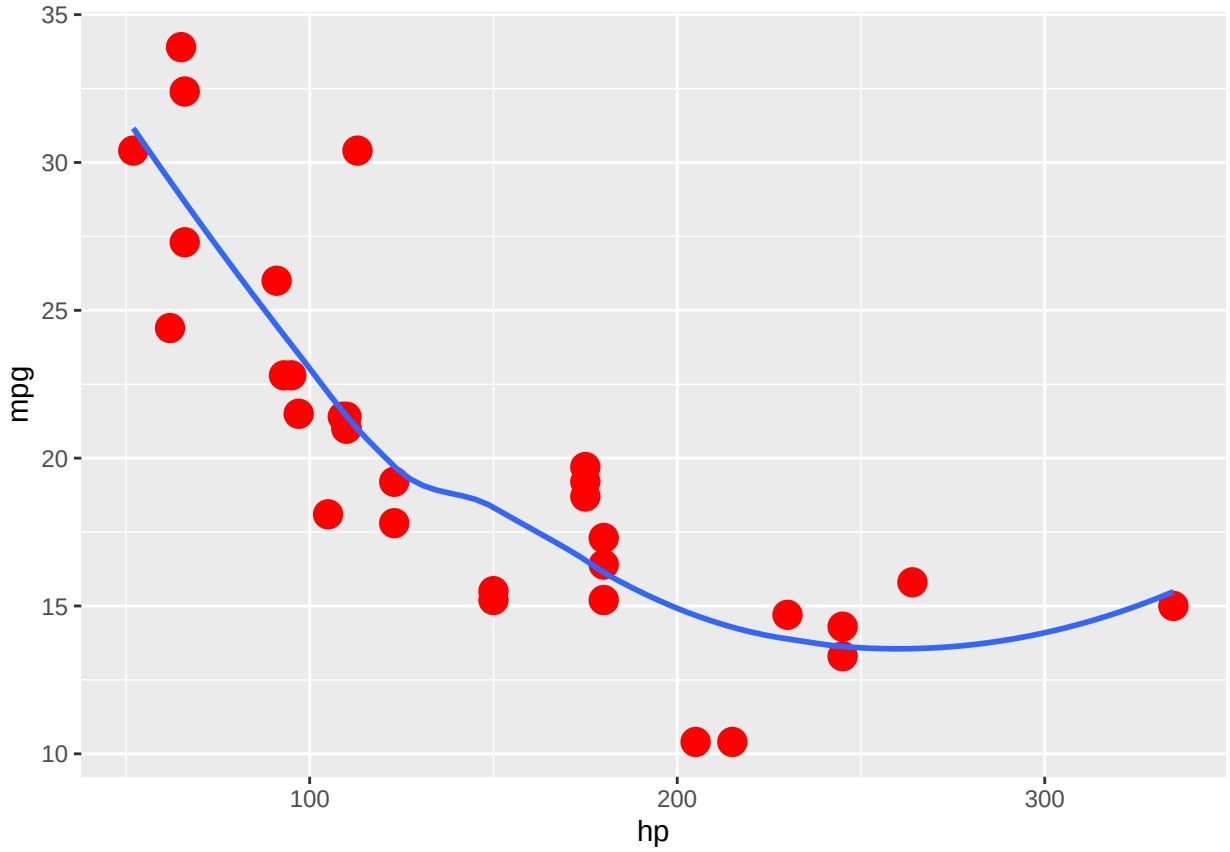
```
## `stat_bin()` using `bins = 30`. Pick better value with `binwidth`.
```



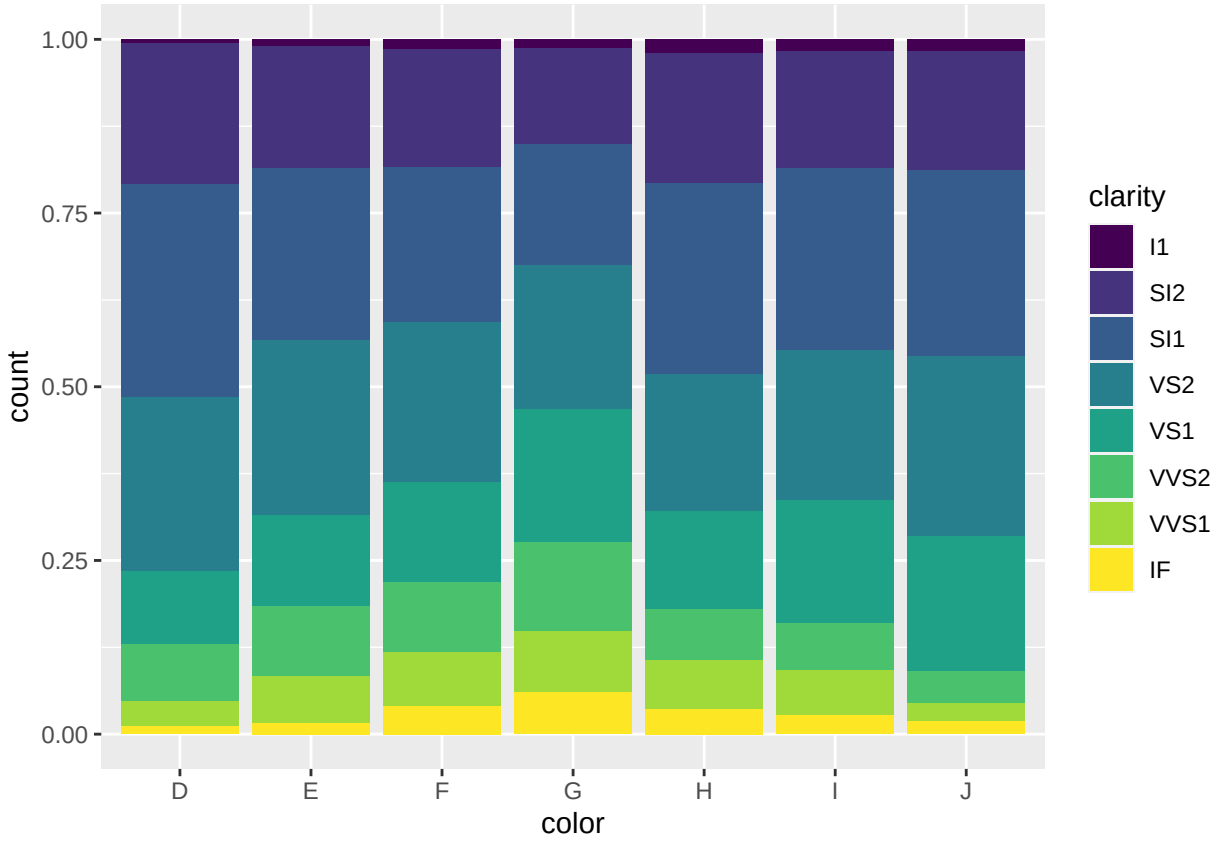
```
new_mtcars <- mtcars %>%
                      mutate(am = factor(am,
                      levels = c(0,1),
                      labels = c("Manual","Auto")))
```

```
library(tidyverse)
library(ggplot2)
#Chart 2 (Scatter plot)
new_mtcars %>%
  ggplot(aes(hp,mpg, )) + geom_point(pch = 16, col = "red",size = 5) + geom_smooth(fill = "blue",se = F
```

```
## `geom_smooth()` using method = 'loess' and formula = 'y ~ x'
```

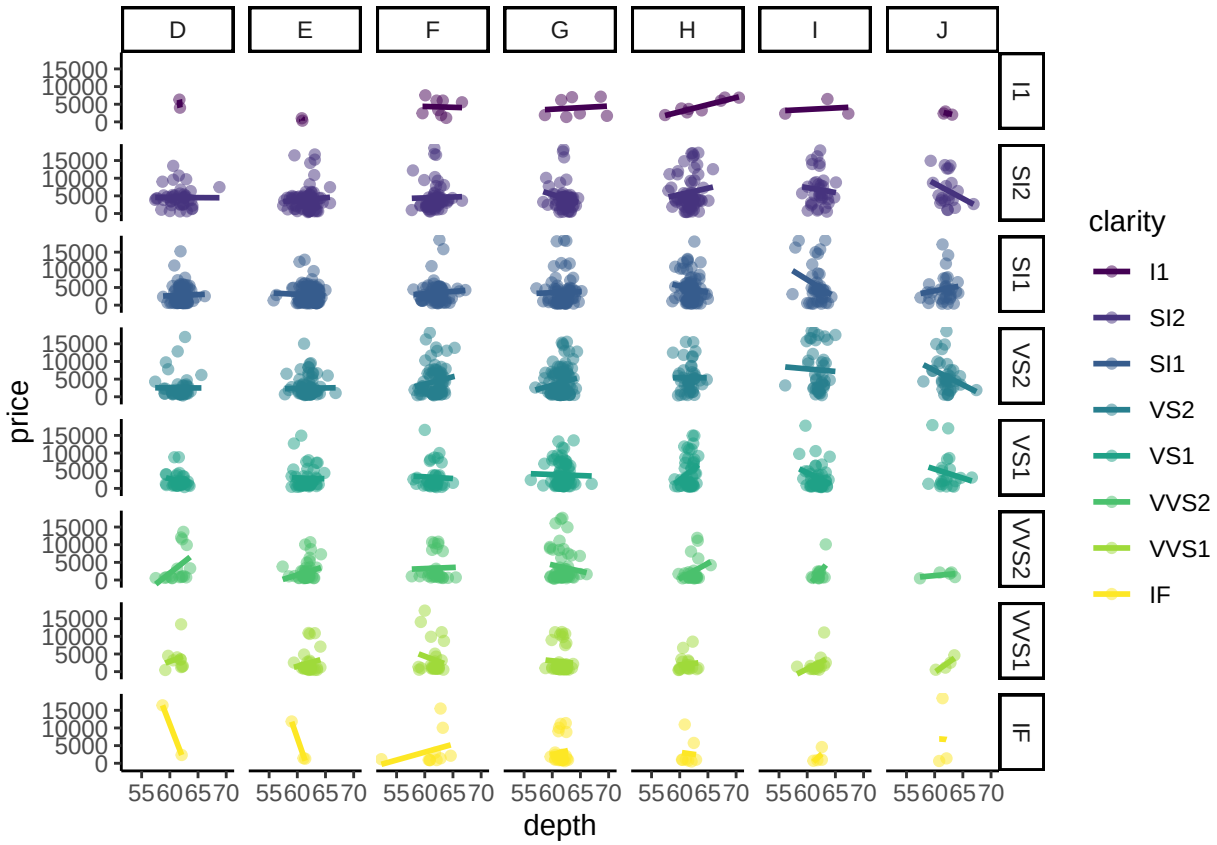



```
#Chart 3 (Bar plot)
diamonds %>%
  ggplot(aes(color,fill = clarity)) + geom_bar(position = "fill")
```

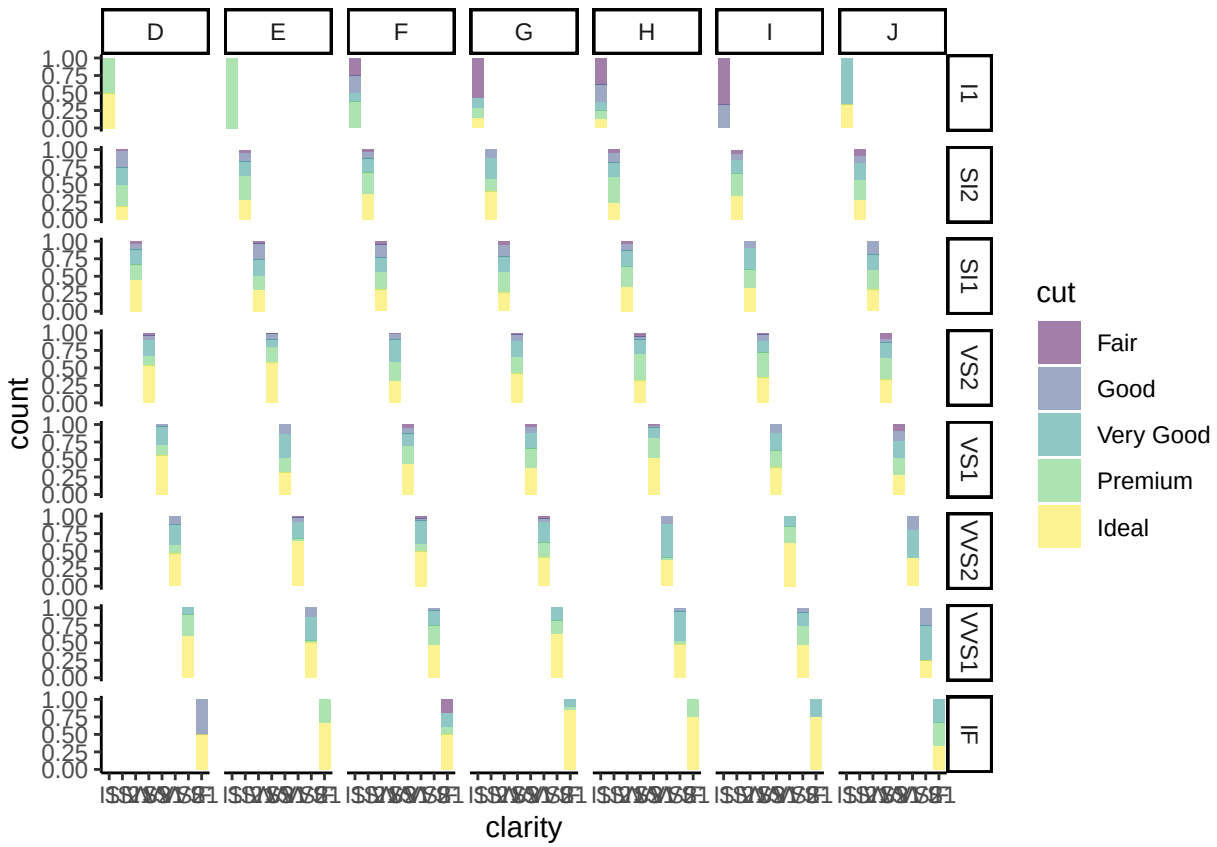



```
#chart 4 (facet_grid)
set.seed(42)
ggplot(sample_n(diamonds, 2000),
       aes(depth,price , color=clarity)) +
  geom_point(alpha=0.5) +
  geom_smooth(method = "lm" , se=F) +
  theme_classic() +
  facet_grid(clarity ~ color)
```

```
## `geom_smooth()` using formula = 'y ~ x'
```

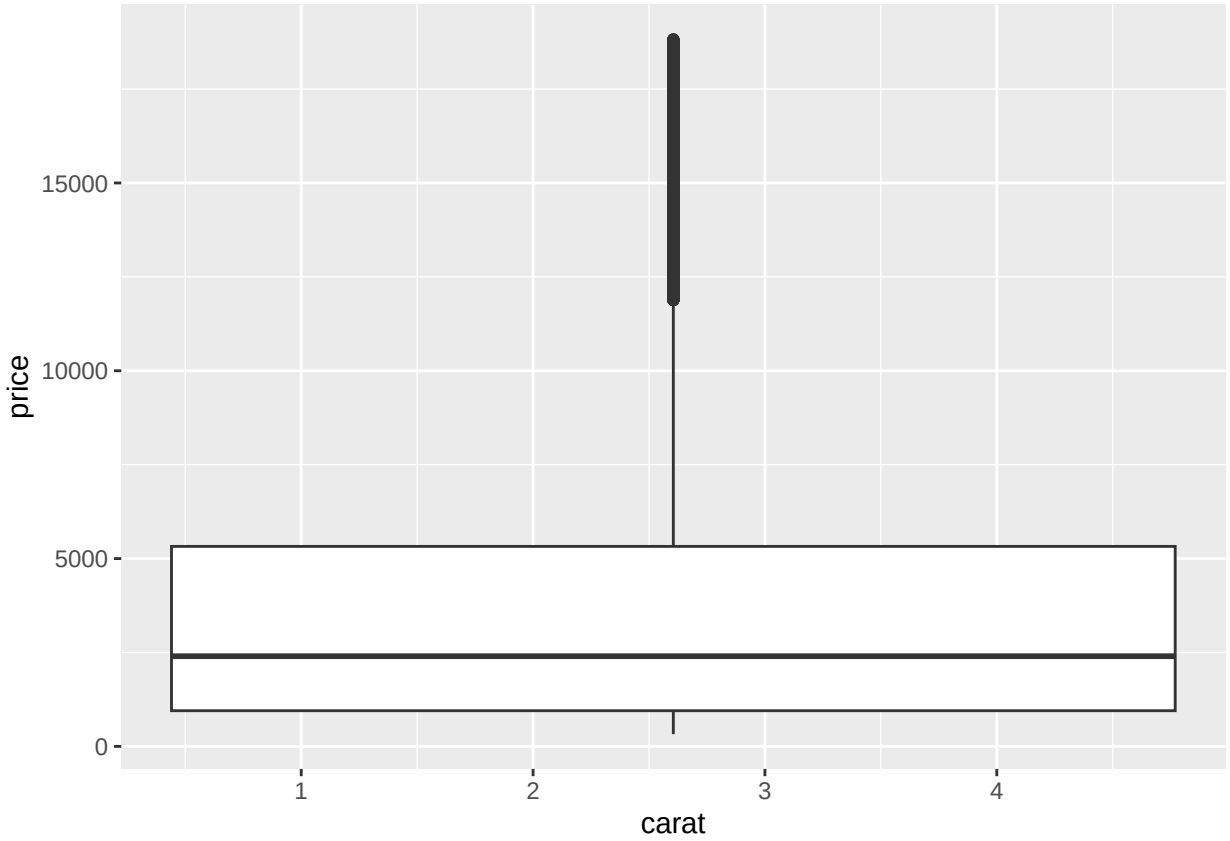



```
set.seed(42)
ggplot(sample_n(diamonds, 2000),
       aes(clarity, fill=cut)) +
  geom_bar(alpha=0.5,position = "Fill") +
  theme_classic() +
  facet_grid(clarity ~ color)
```




```
#chart 5 (Box plot)
diamonds %>%
  ggplot(aes(carat,price))+ geom_boxplot()
```

```
## Warning: Continuous x aesthetic
## i did you forget 'aes(group = ...)'?
```


price
15000
10000
5000
0
1
2
3
4
carat