R Notebook

Numtan

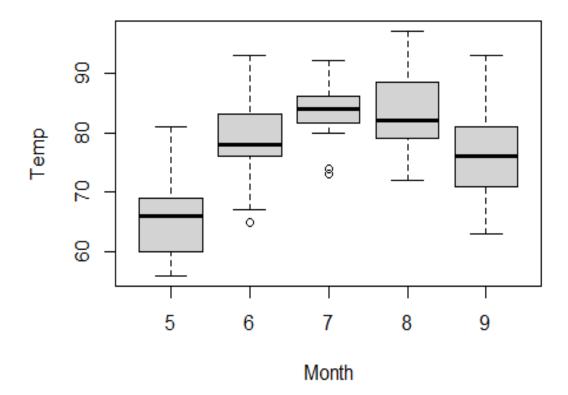
graph creation by using ggplot2

from 2 dataset

1. airquality

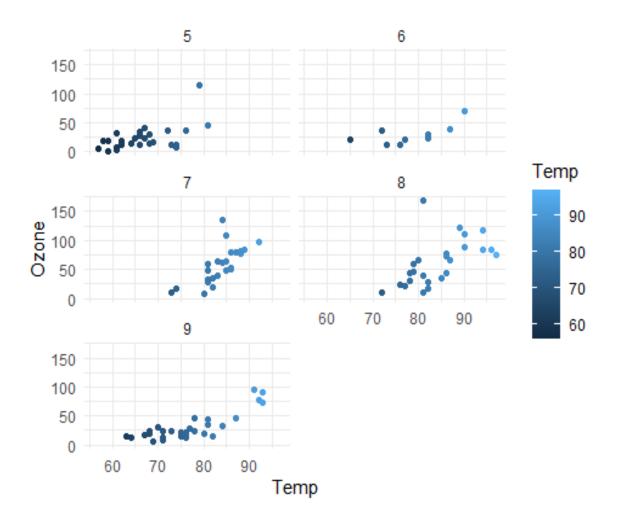
1.1 In descriptive statistics graphically demonstrating the locality, spread and skewness groups of temperature in each month

```
library(ggplot2)
library(latexpdf)
boxplot(Temp ~ Month, data = airquality)
```



1.2 relationship between temperature and the ozone value in each month

```
ggplot(airquality, aes(Temp,Ozone, col=Temp)) + geom_point()+theme_minimal()+
facet_wrap(~ Month, ncol=2)
## Warning: Removed 37 rows containing missing values (geom_point).
```



2.Diamond

2.1 boxplot of the price value in each cut

```
library(tidyverse)
## — Attaching packages
                                                                 tidyverse
1.3.2 -
## √ tibble 3.1.8

√ dplyr

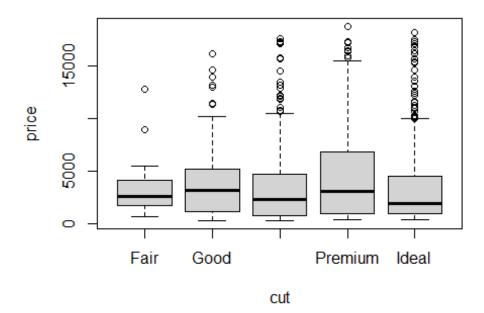
                                   1.0.10
## √ tidyr

√ stringr 1.4.1

             1.2.0
## √ readr

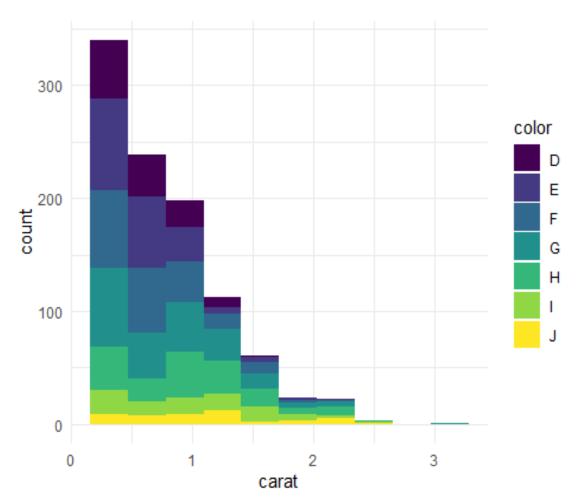
√ forcats 0.5.2

             2.1.2
## √ purrr
             0.3.4
## -- Conflicts -
tidyverse_conflicts() —
## X dplyr::filter() masks stats::filter()
## X dplyr::lag()
                     masks stats::lag()
boxplot(price~cut, data = sample_n(diamonds, size = 1000))
```



$2.2\ distribution$ of diamond's carat and show the color propotion

```
ggplot(sample_n(diamonds, size = 1000), aes(carat,
fill=color))+geom_histogram(bins = 10)+theme_minimal()
```



2.2 Relationship between carat and price in each diamond's color

```
ggplot(sample_n(diamonds,size = 1000),aes(carat,price,col=color)) +
geom_point() +geom_smooth(method = "lm") +
facet_wrap(~color,ncol=3)+theme_minimal()
## `geom_smooth()` using formula 'y ~ x'
```

