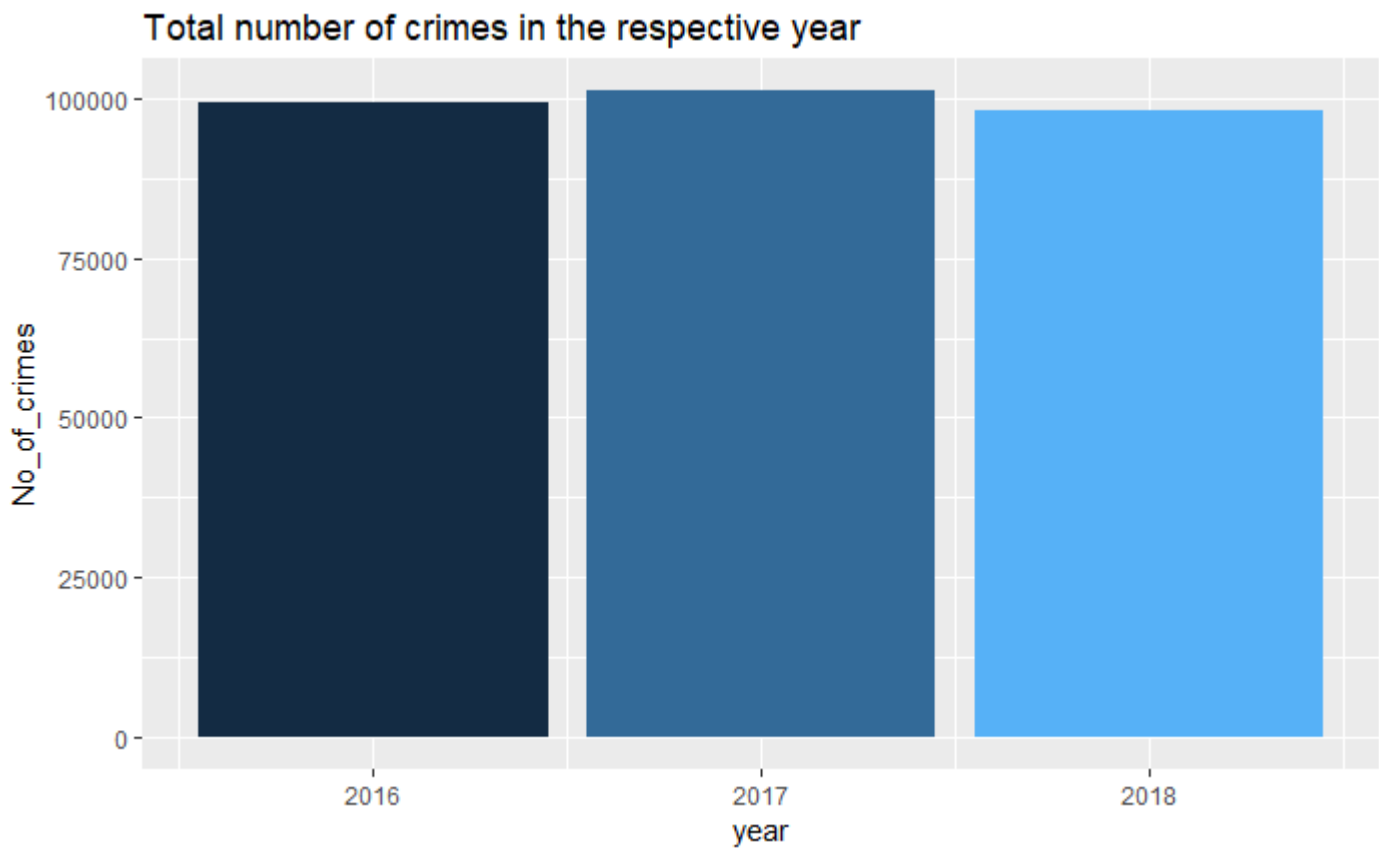


```

number <- crime %>%
  group_by(year) %>%
  summarise(No_of_crimes = n())
number <- number[c(2016,2017,2018), ]
number <- crime %>%
  group_by(year) %>%
  summarise(No_of_crimes = n())
ggplot(number, aes(x = year, y = No_of_crimes, fill = year )) +
  geom_col() +
  ggtitle("Total number of crimes in the respective year") +
  theme(legend.position="none")

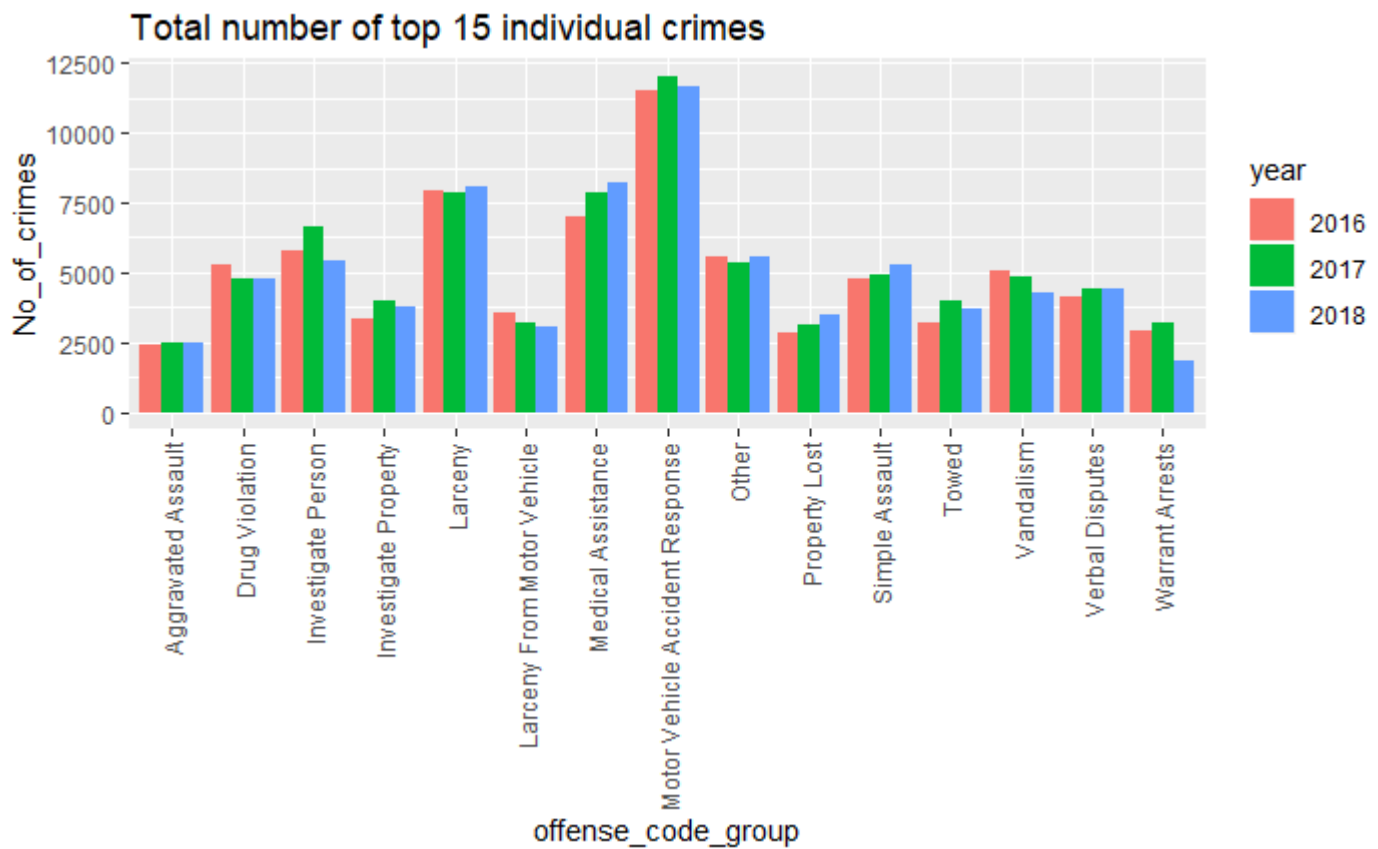
```



```

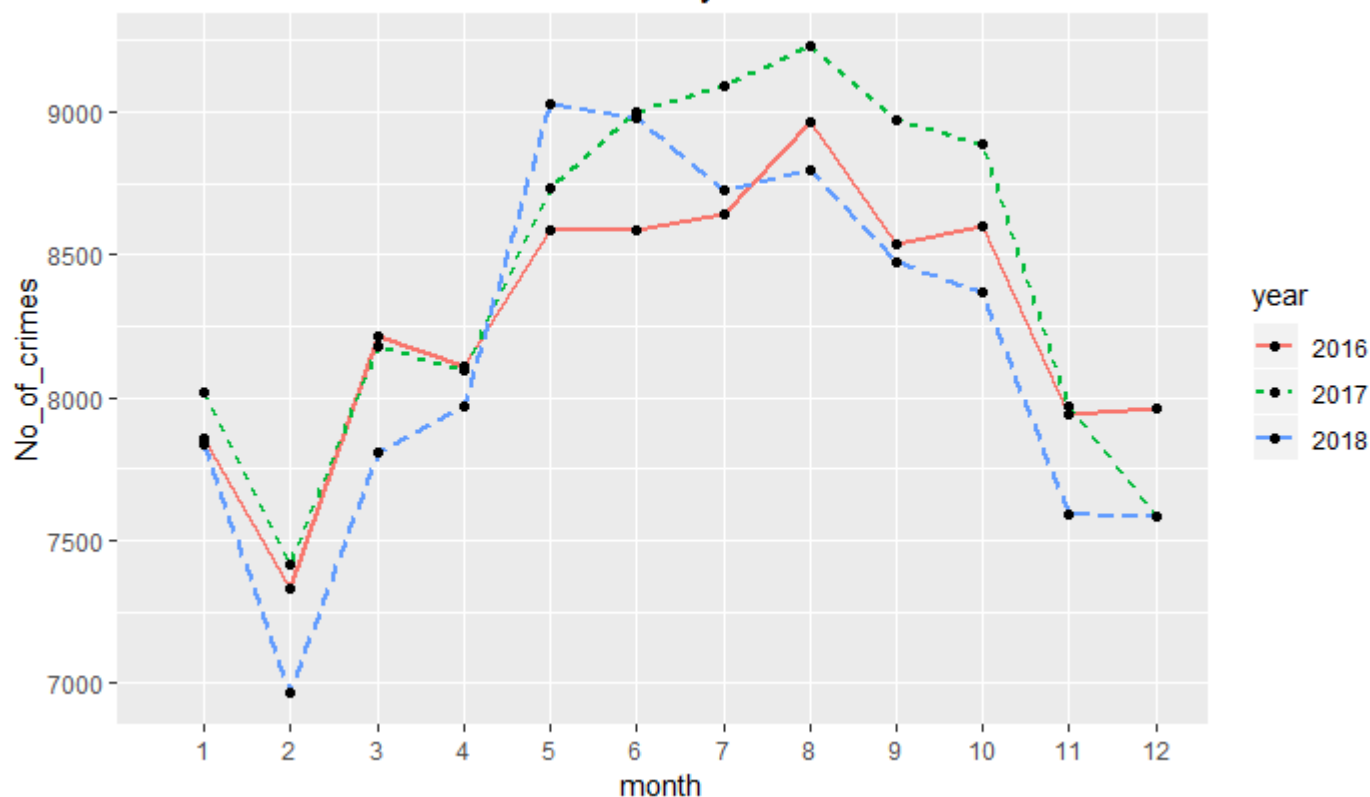
Offense_Code1$year <- as.factor(Offense_Code1$year)
ggplot(Offense_Code1, aes(x = offense_code_group, y = No_of_crimes, fill = year )) +
  geom_col(position="dodge") +
  theme(axis.text.x = element_text(angle = 90, hjust = 1, vjust = .5)) +
  ggtitle("Total number of top 15 individual crimes")

```

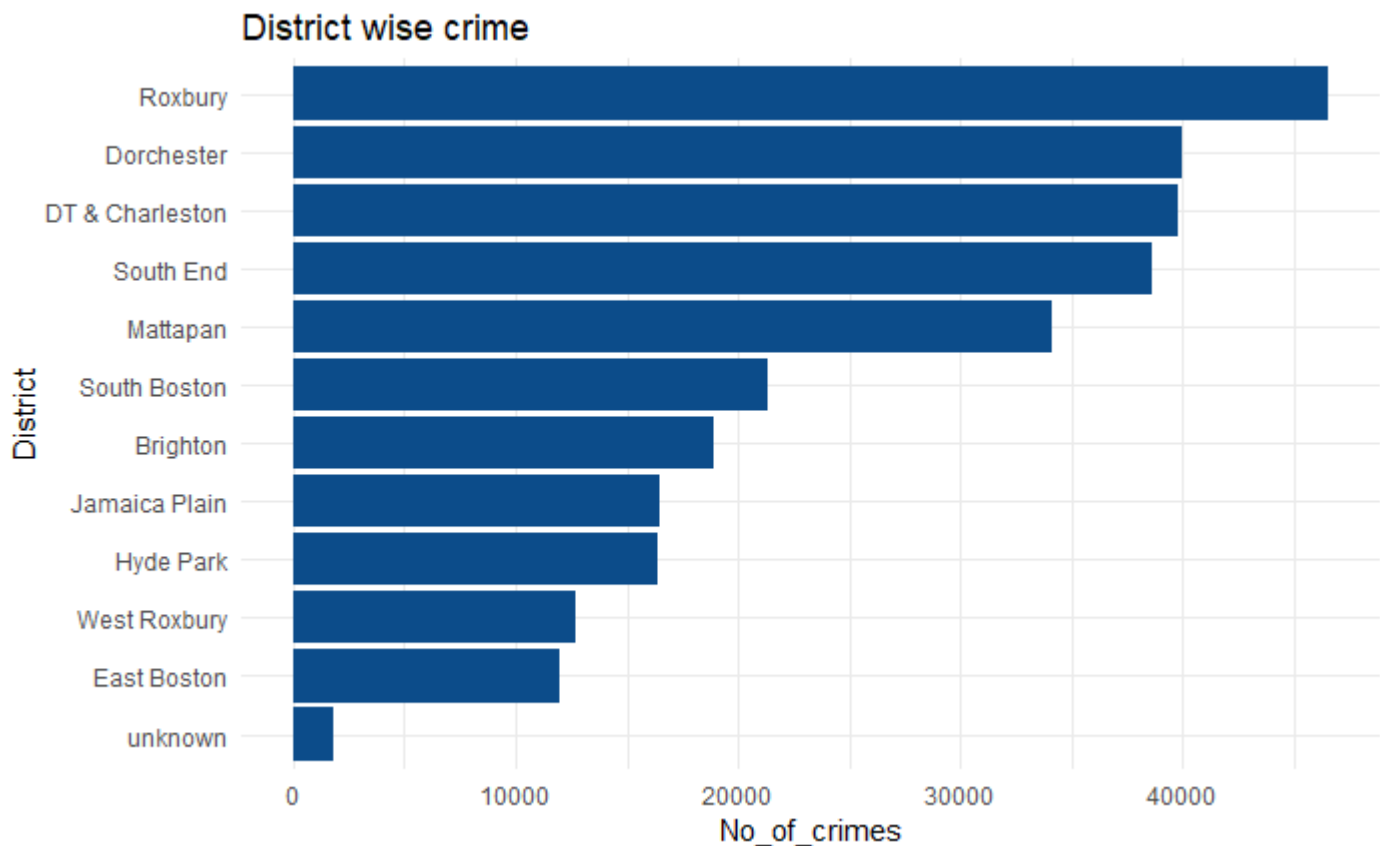

[Hide](#)

```
Month$year <- as.factor(Month$year)
Month$month <- as.factor(Month$month)
ggplot(Month, aes(x = month, y = No_of_crimes, fill = year, group = year)) +
  geom_line(size = 1, aes(linetype = year, color = year)) + geom_point() +
  expand_limits(x=c(0,12)) +
  ggtitle("Number of crimes recorded over the years")
```

Number of crimes recorded over the years


[Hide](#)

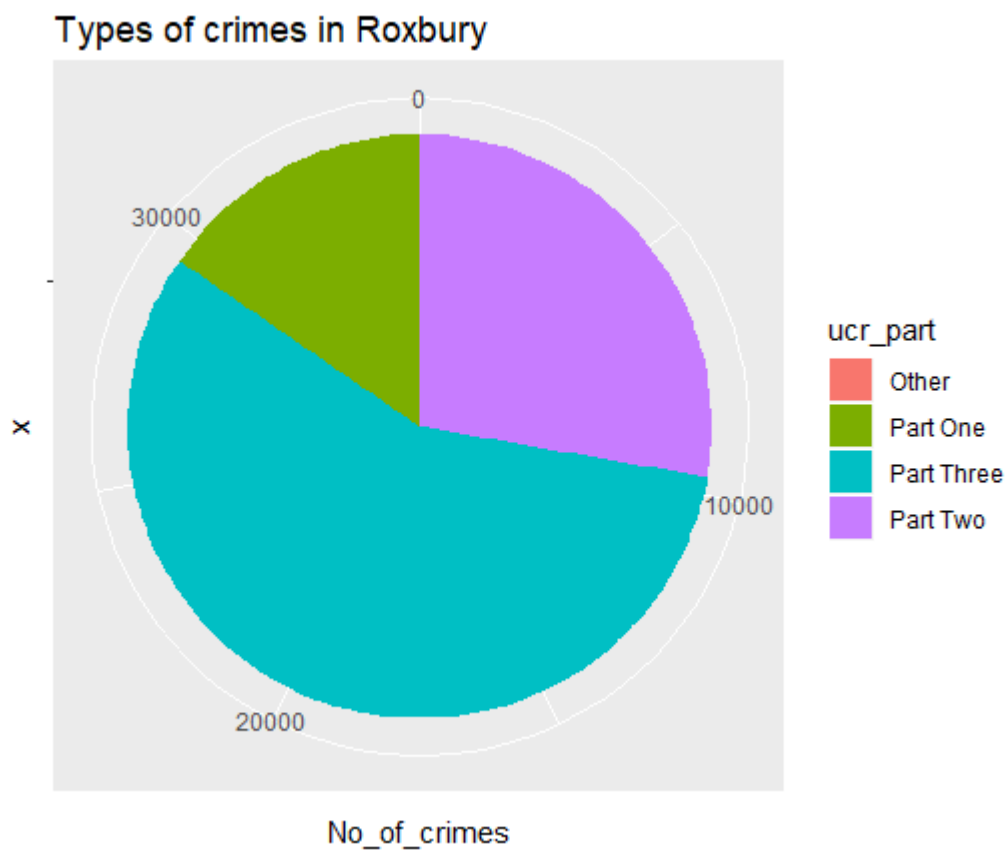
```
## District wise
#crimeclean<-crime[complete.cases(crime),]
library(ggplot2)
library(dplyr)
crime$origdistrictname <- plyr::mapvalues(crime$district,
                                          from=c('','A1','A15','A7','B2','B3','C6','C11','D4','D1
4','E5','E13','E18'),
                                          to=c('unknown','DT & Charleston','DT & Charleston','Eas
t Boston','Roxbury','Mattapan','South Boston','Dorchester','South End','Brighton','West Roxbury'
,'Jamaica Plain','Hyde Park'))
district <- crime %>%
  group_by(origdistrictname) %>%
  summarise(No_of_crimes=n())
#Bar plot
ggplot(data = district) +
  aes(x = reorder(origdistrictname,No_of_crimes), weight = No_of_crimes) + coord_flip()+
  geom_bar(fill = "#0c4c8a") + labs(title = "District wise crime",y="No_of_crimes",x="District")
+
  theme_minimal()
```


[Hide](#)

```
#ggplot(data = district) +aes(x=year,y=origdistrictname, fill = No_of_crimes) +geom_tile() +labs
(title = "Heat Map") #+scale_fill_distiller(palette = "Set1")+theme_minimal()
```

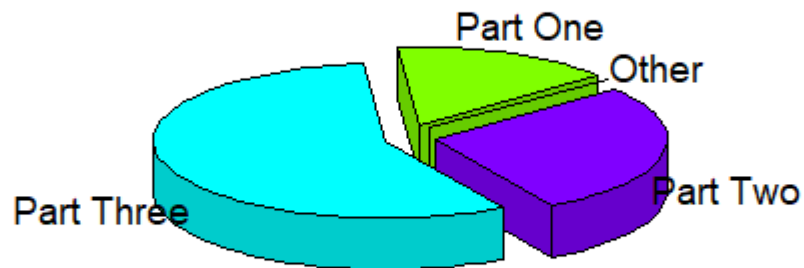
[Hide](#)

```
crimeroxbury <- filter(crime,origdistrictname=='Roxbury' & offense_code_group %in% n)
ucr_rox <- crimeroxbury %>%
  group_by(ucr_part) %>%
    summarise(No_of_crimes=n())
bp<- ggplot(ucr_rox, aes(x="", y=No_of_crimes, fill=ucr_part))+
  geom_bar(width = 1, stat = "identity")
pie <- bp + coord_polar("y",start = 0) + labs(title = "Types of crimes in Roxbury")
pie
```

[Hide](#)

```
library(plotrix)
pie3D(ucr_rox$No_of_crimes, labels = ucr_rox$ucr_part, main = "An exploded 3D pie chart", explod
e=0.1, radius=.9, labelcex = 1.2, start=0.7)
```

An exploded 3D pie chart



Roxbury Street wise part one crimes

