4주차 실습

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실습 1

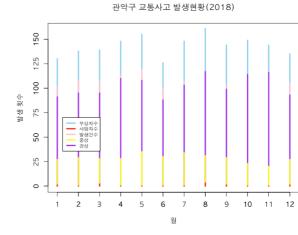
(1) 데이터 설정

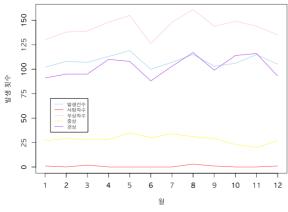
```
data <- read.csv("/Users/chr1s0/desktop/2022-1/R/week4/src/data(2018).csv") df_1 <- data %>% filter(시군구 == "관악구") %>% select(발생건수, 사망자수, 부상자수, 중상, 경상) count <- df_1$발생건수 death_count <- df_1$사망자수 injury_count <- df_1$사망자수 serious_count <- df_1$부상자수 serious_count <- df_1$경상 colors <- c("skyblue", "red", "pink", "yellow", "purple") month <- c(1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12) month <- paste(month, "월") mdf_1 <- as.matrix(df_1) df_1_colsum <- colSums(df_1)
```

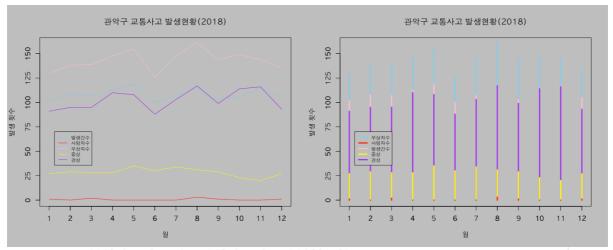
(2) 데이터 출력

```
plot(month, count, type="l", xlab="월", ylab="발생 횟수",
        main="관악구 교통사고 발생현황(2018)", col="skyblue", ylim=c(0, 160))
par(new="T")
lines(death_count, col="red")
lines(injury_count, col="pink")
lines(serious_count, col="yellow")
lines(slight_count, col="purple")
axis(side=1, at=seq(1, 12, by=1))
axis(side=2, at=seq(0, 150, by=25))
legend(1.25, 70, label, cex=0.7, lty=1, col=colors)
```

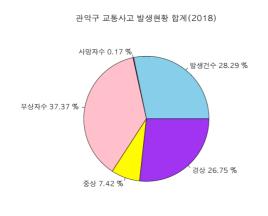


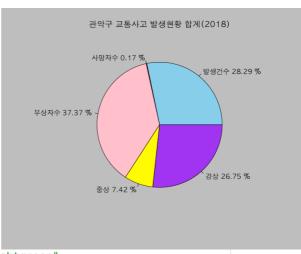


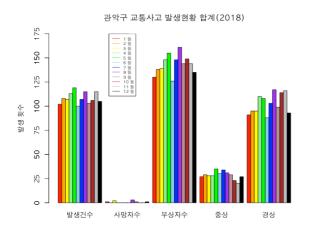


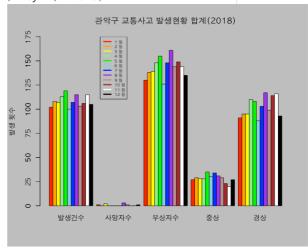


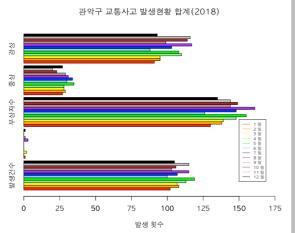
pct <- round(df_1_colsum/sum(df_1_colsum)*100, 2)
label <- c("발생건수", "사망자수", "부상자수", "중상", "경상")
label <- paste(label, pct,"%")
pie(df_1_colsum, col=colors, labels=label, main="관악구 교통사고 발생현황 합계(2018)")

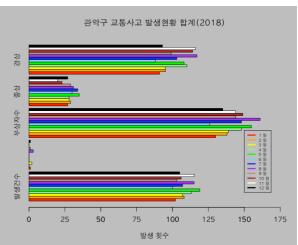










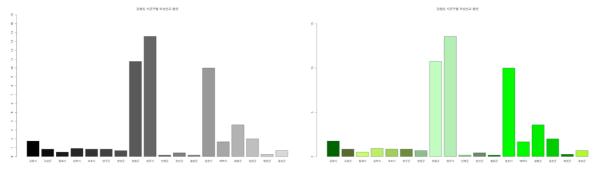


실습 2

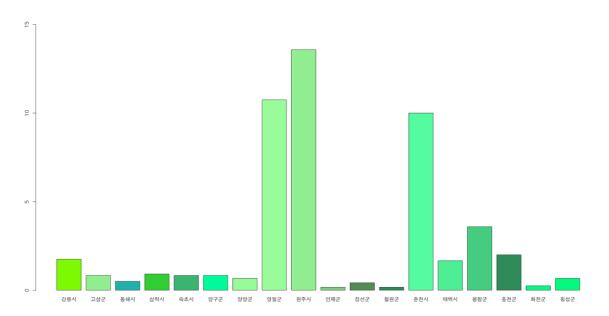
```
(1) 데이터 설정
t2_data <- read.csv("/Users/chr1s0/desktop/2022-1/R/week4/src/data(2018).csv")
df_2 <- subset(t2_data, 시도=="강원", select=c("시군구", "부상신고"))
df_2_mean <- df_2 %>% group_by(시군구) %>% summarise(report_count=mean(부상신고))
mdf_2 <- as.matrix(df_2_mean)</pre>
report_count <- df_2_mean$report_count</pre>
location <- df 2 mean$시군구
gray_colors <-</pre>
c("gray0", "gray5"
  , "gray10", "gray15"
  , "gray20", "gray25"
  ,"gray30", "gray35"
  ,"gray40", "gray45"
  , "gray50", "gray55"
  ,"gray60", "gray65"
  ,"gray70", "gray75"
   , "gray80", "gray85")
green_colors <-</pre>
                                          green_colors_2 <-</pre>
c("darkgreen", "darkolivegreen"
  ,"darkolivegreen1", "darkolivegreen2" c("lawngreen", "lightgreen"
                                             ,"lightseagreen", "limegreen"
  ,"darkolivegreen3", "darkolivegreen4"
                                             ,"mediumseagreen", "mediumspringgreen"
  ,"darkseagreen", "darkseagreen1"
                                             ,"palegreen", "palegreen1"
  ,"darkseagreen2", "darkseagreen3"
                                             ,"palegreen2", "palegreen3"
  ,"darkseagreen4", "forestgreen"
                                             ,"palegreen4", "seagreen"
  ,"green", "green1"
                                             ,"seagreen1", "seagreen2"
  ,"green2", "green3"
                                             ,"seagreen3", "seagreen4"
  ,"green4", "greenyellow")
                                             ,"springgreen", "springgreen1")
```

(2) 데이터 출력

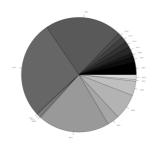
barplot(report_count, names.arg=location, main="강원도 시군구별 부상신고 평균", col=green_colors_2, ylim=c(0, 16)) axis(side=2, at=seq(0, 16, by=1))

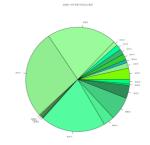


강원도 시군구별 부상신고 평균

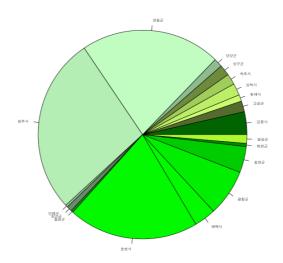


pie(report_count, location, main="강원도 시군구별 부상신고 평균", col=rainbow(18))

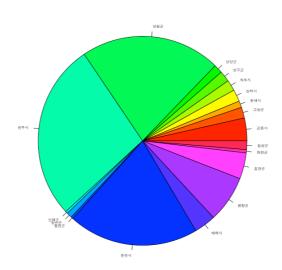




강원도 시군구범 부상신고 평균



강원도 시군구범 부상신고 평균



```
plot(report_count, axes=FALSE, type="p", main="강원도 시군구별 부상신고 평균", xlab="", ylab="신고 횟수", lwd=7, col="orangered") axis(side=1, at=1:18, labels=location) axis(side=2, at=0:16)
```

