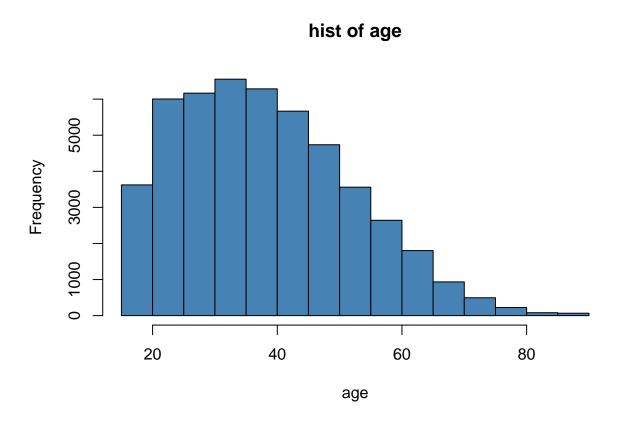
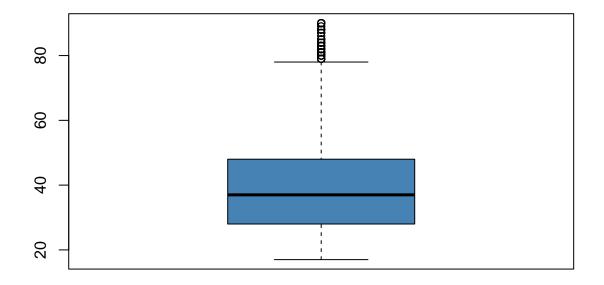
Basic descriptive (prior to preprocessing)

2025-02-20

```
setwd("/home/adpaoj/Documents/ADEI/Project")
dd <- read.csv("~/Documents/ADEI/Project/adult.csv")</pre>
library(RColorBrewer)
#Numerical (prior to preprocessing)
class(dd[,1])
## [1] "integer"
for ( i in 1:15){
        if(is.numeric(dd[,i])){
               hist(dd[,i],main=paste("hist of", names(dd)[i]), col = "steelblue", xlab=names(dd)[i])
               boxplot(dd[,i],main=paste("boxplot of", names(dd)[i]), col = "steelblue")
                cat("Summary of", names(dd)[i], ":\n")
               print(summary(dd[,i]))
       } else{
               par(mar = c(8, 4, 4, 2))
               barplot(table(dd[,i]),main=paste("barplot of", names(dd)[i]), col = "tomato", las = 2)
               pie(table(dd[,i]),main=paste("pie of", names(dd)[i]), col = brewer.pal(min(length(table(dd[, i])), sol = brewer.pal(min(length(table(dd[, i]))), sol = brew
       }
}
```

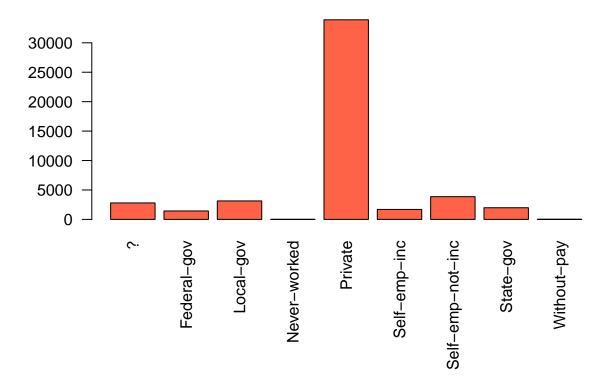


boxplot of age

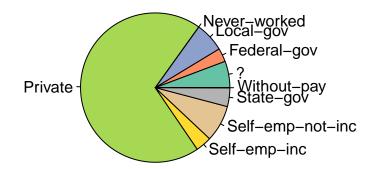


```
## Summary of age :
## Min. 1st Qu. Median Mean 3rd Qu. Max.
## 17.00 28.00 37.00 38.64 48.00 90.00
```

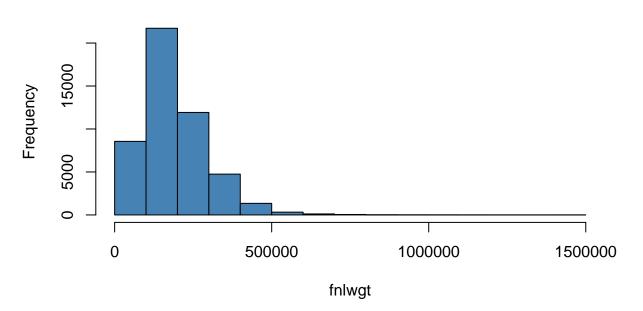
barplot of workclass



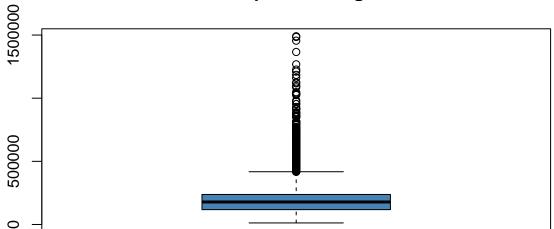
pie of workclass



hist of fnlwgt



boxplot of fnlwgt

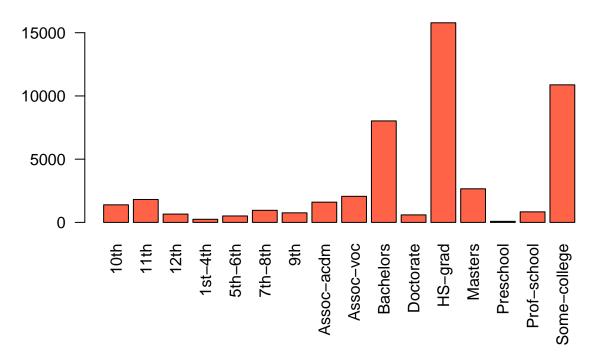


```
## Summary of fnlwgt :

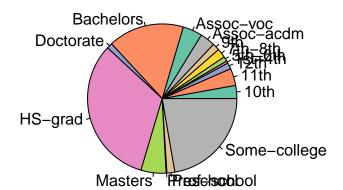
## Min. 1st Qu. Median Mean 3rd Qu. Max.

## 12285 117550 178144 189664 237642 1490400
```

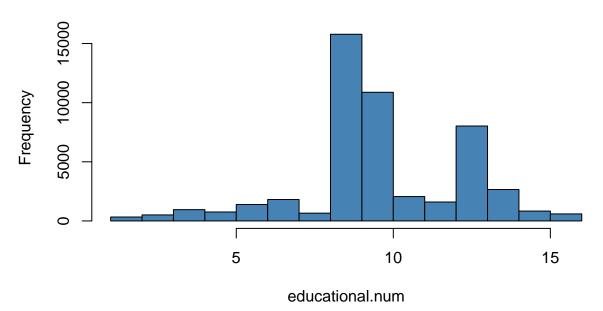
barplot of education



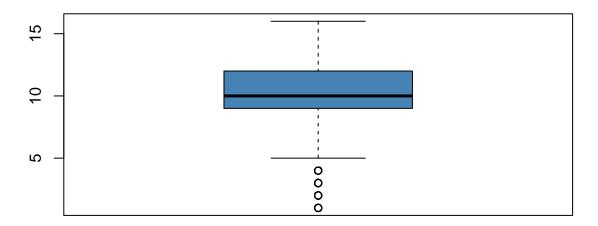
pie of education



hist of educational.num

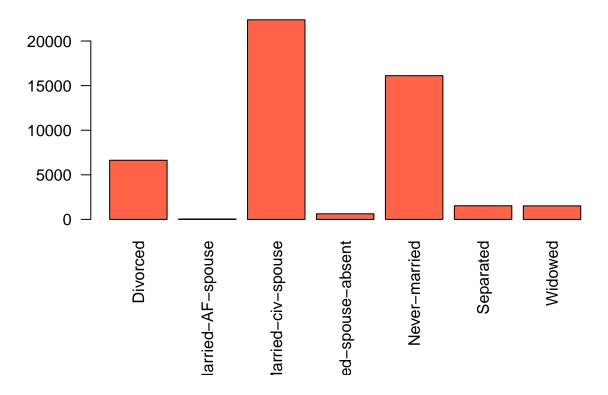


boxplot of educational.num

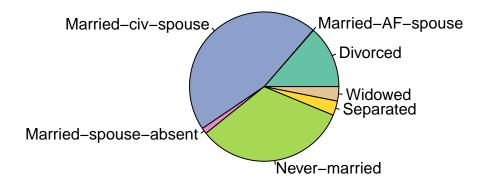


```
## Summary of educational.num :
## Min. 1st Qu. Median Mean 3rd Qu. Max.
## 1.00 9.00 10.00 10.08 12.00 16.00
```

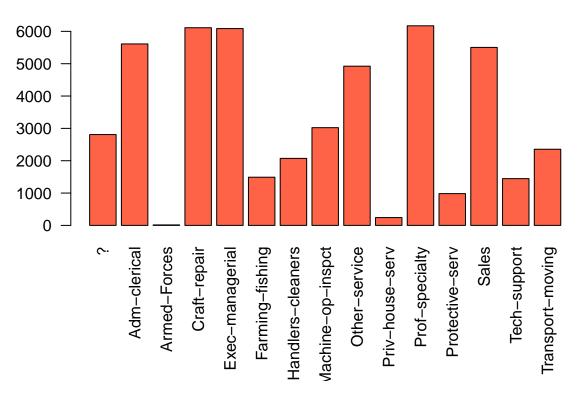
barplot of marital.status



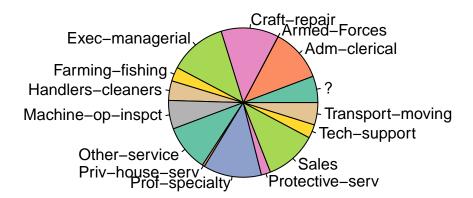
pie of marital.status



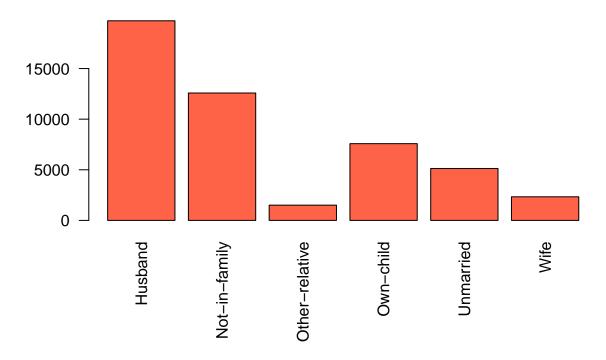




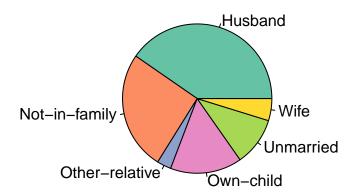
pie of occupation



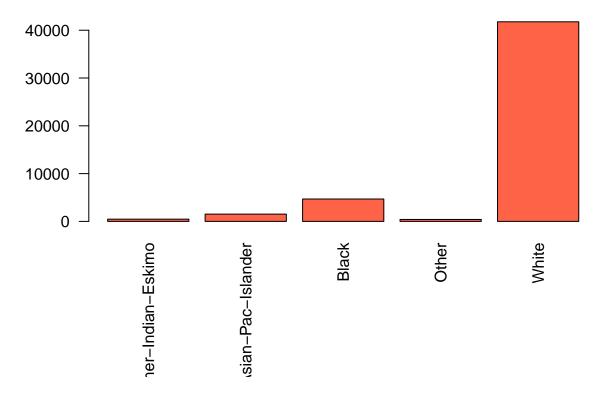
barplot of relationship



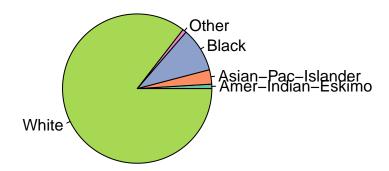
pie of relationship



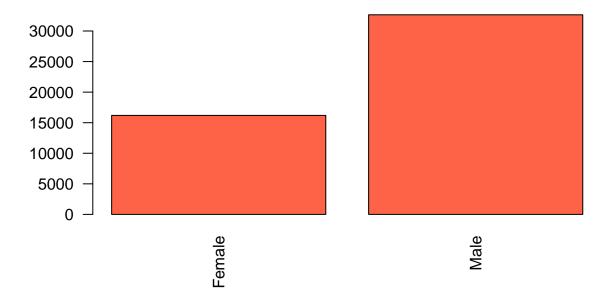
barplot of race



pie of race

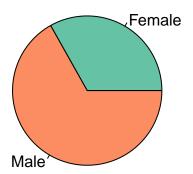


barplot of gender

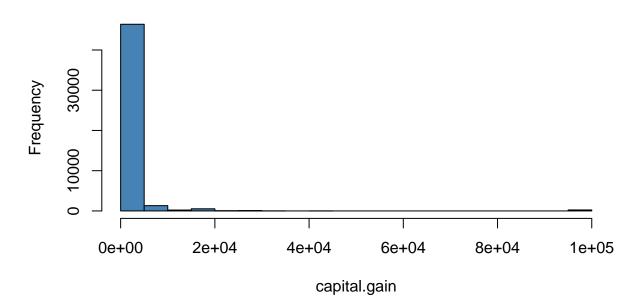


Warning in brewer.pal(min(length(table(dd[, i])), 8), "Set2"): minimal value for n is 3, returning r

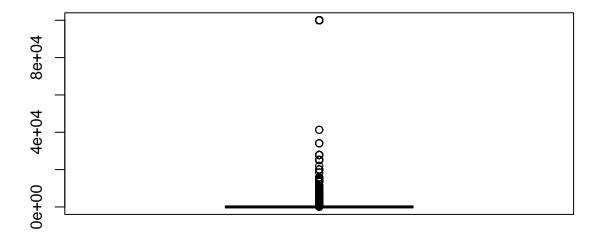
pie of gender



hist of capital.gain

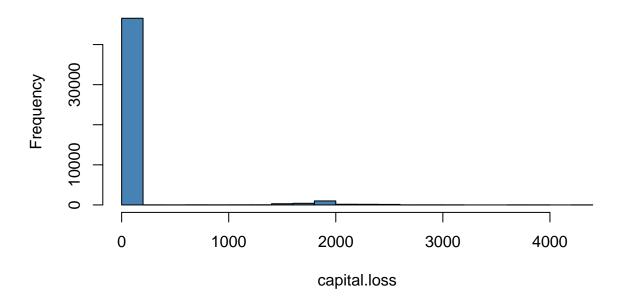


boxplot of capital.gain

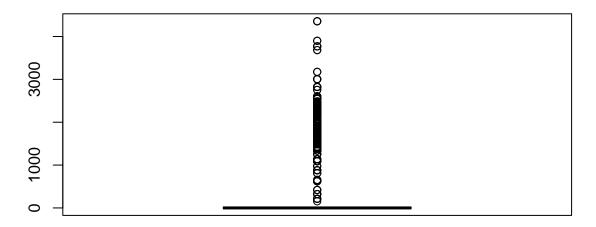


```
## Summary of capital.gain :
## Min. 1st Qu. Median Mean 3rd Qu. Max.
## 0 0 0 1079 0 99999
```

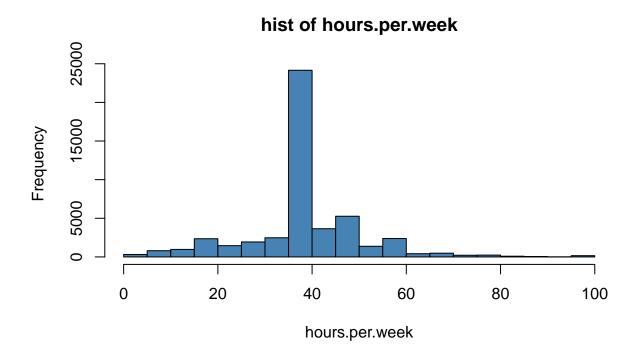
hist of capital.loss



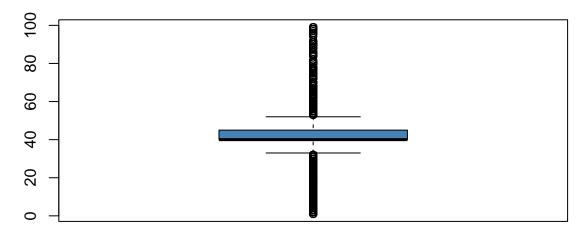
boxplot of capital.loss



```
## Summary of capital.loss :
## Min. 1st Qu. Median Mean 3rd Qu. Max.
## 0.0 0.0 0.0 87.5 0.0 4356.0
```

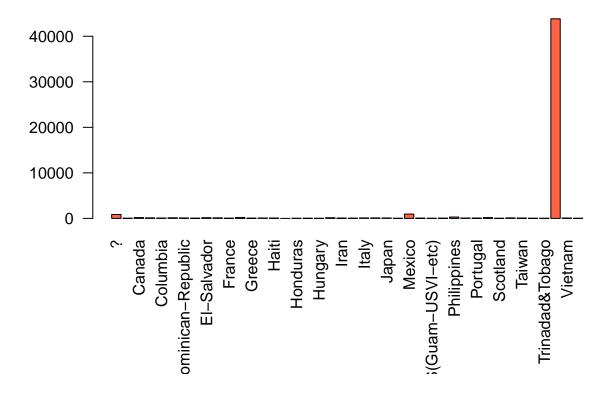


boxplot of hours.per.week

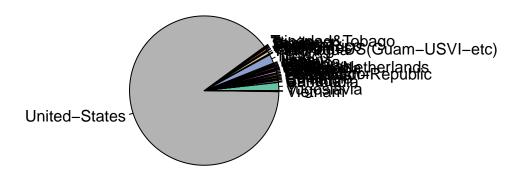


```
## Summary of hours.per.week :
## Min. 1st Qu. Median Mean 3rd Qu. Max.
## 1.00 40.00 40.00 40.42 45.00 99.00
```

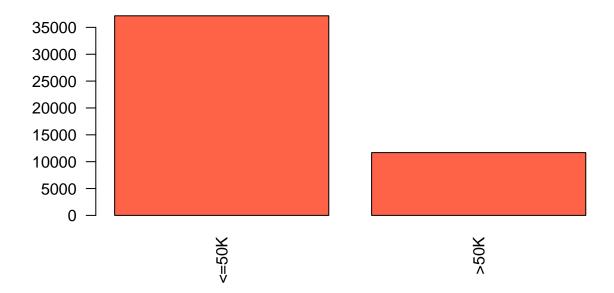
barplot of native.country



pie of native.country



barplot of income



Warning in brewer.pal(min(length(table(dd[, i])), 8), "Set2"): minimal value for n is 3, returning r

pie of income

