Assignment7.1

Aruna

23 November 2018

```r
#assignment 7.1

#1.Histogram of all variables in a dataset mtcars
#    Write a program to create histograms for all columns

#par(mfcol=c(3,4))
for (col in 1:ncol(mtcars)) {
  hist(mtcars[,col],type='l',
       main=paste("Histogram of mtCars : ",names(mtcars[col])),
        xlab=names(mtcars[col]),
        type="l",
        col = "blue")
}
```

```
## Warning in plot.window(xlim, ylim, "", ...): graphical parameter "type" is
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```
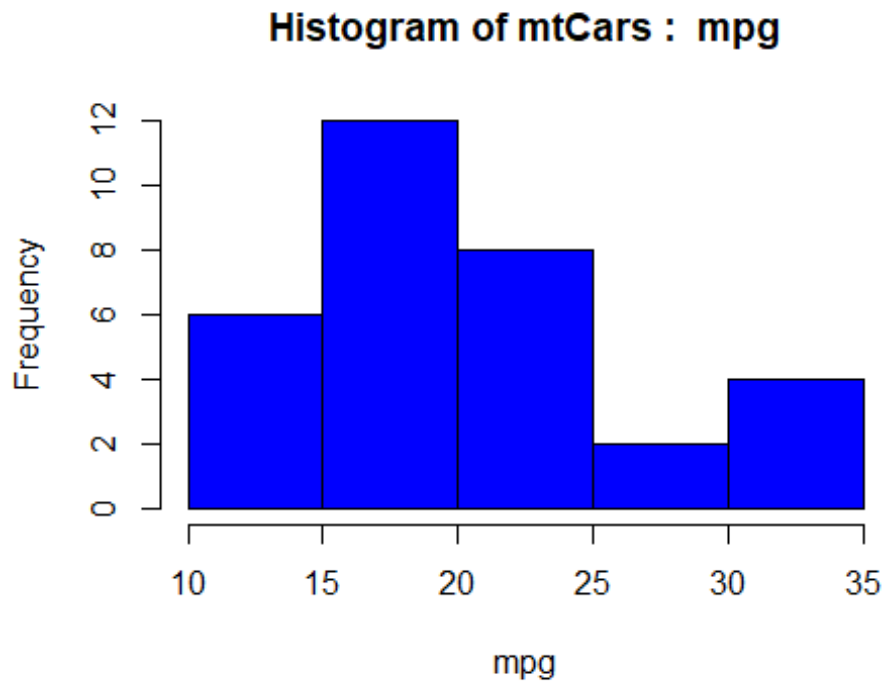
Histogram of mtCars : mpg


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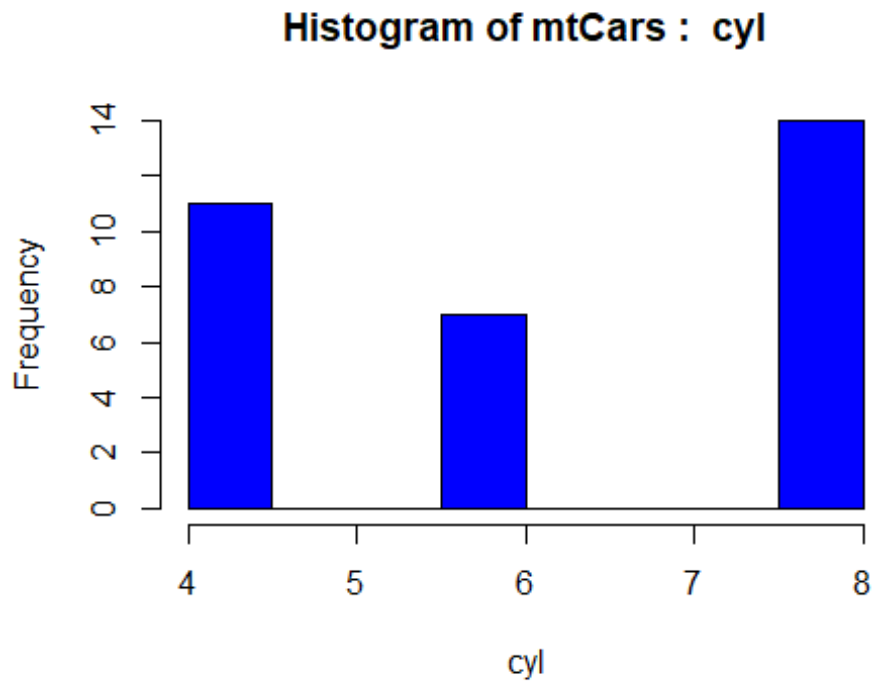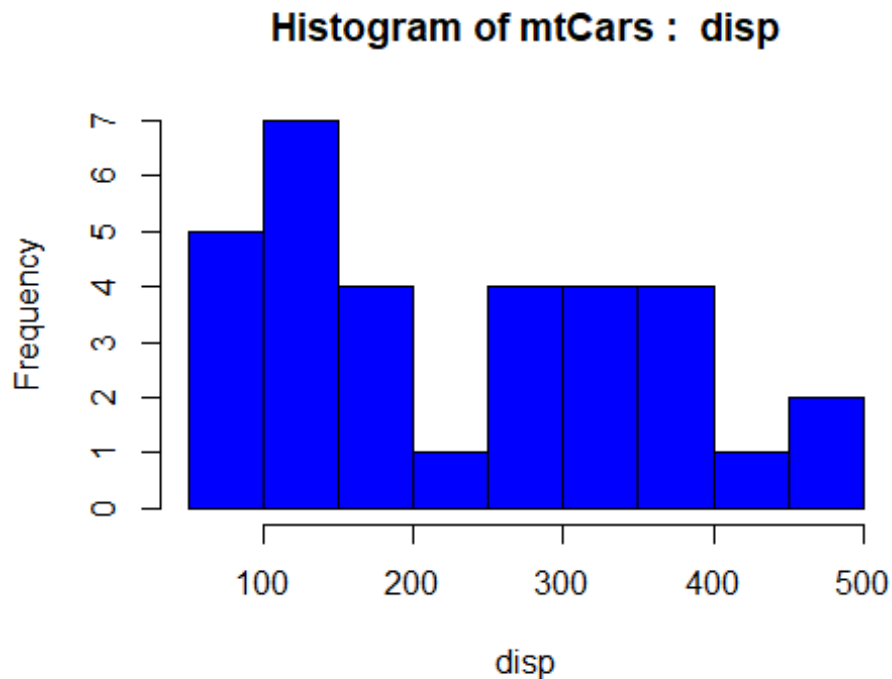
Histogram of mtCars : cyl


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Histogram of mtCars : disp


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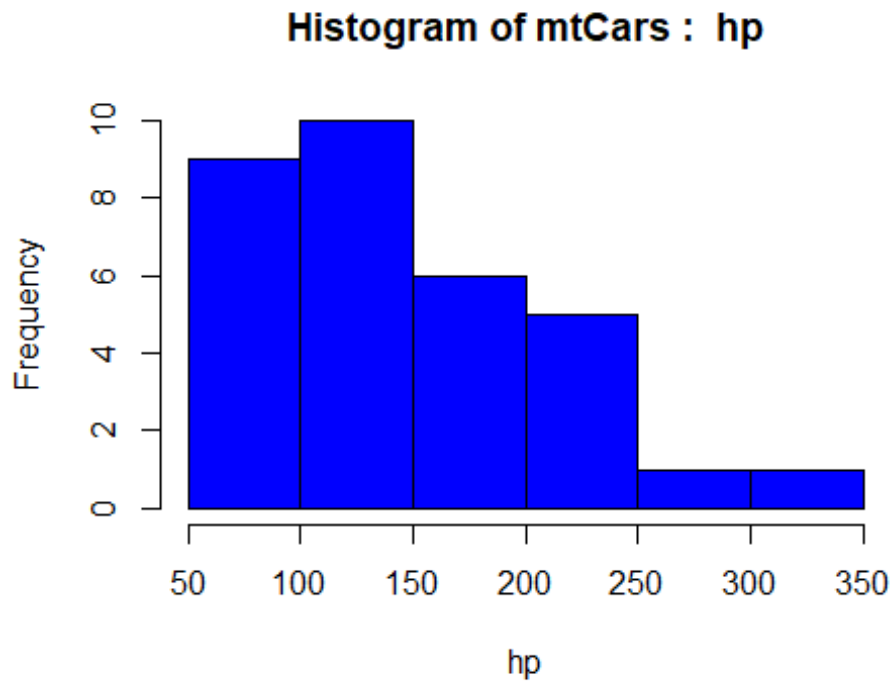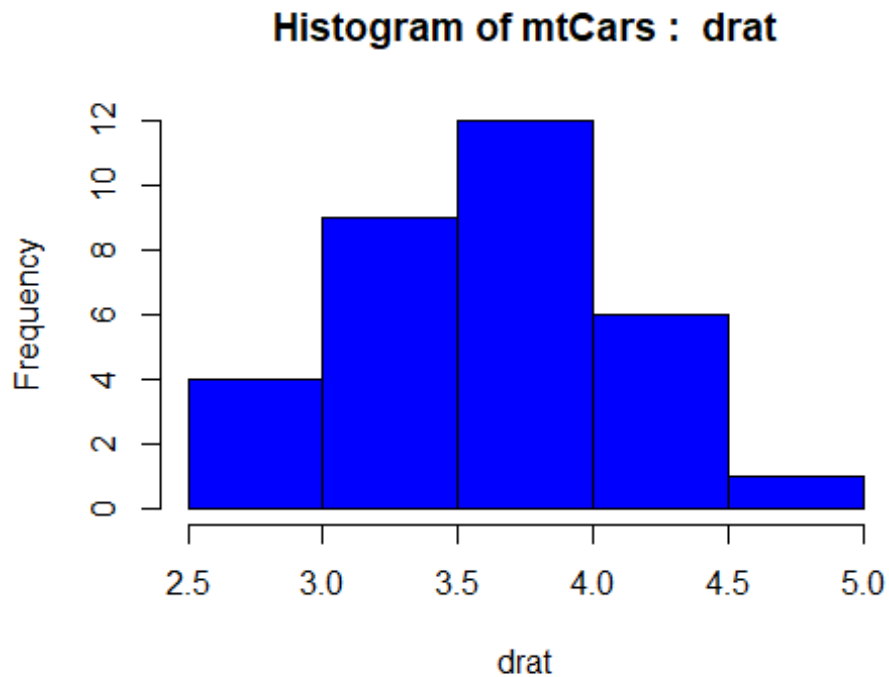
Histogram of mtCars : hp


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Histogram of mtCars : drat


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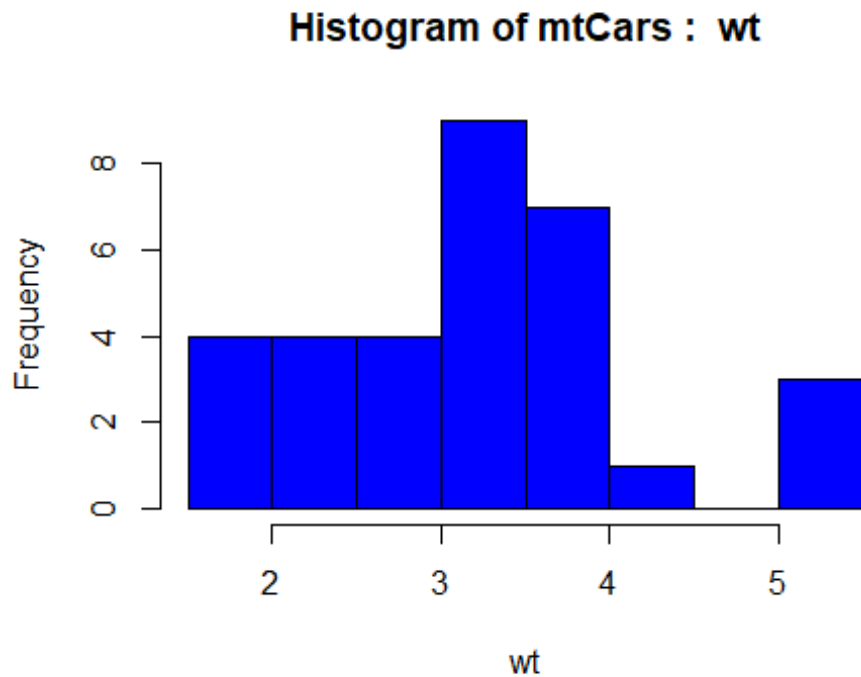
Histogram of mtCars : wt


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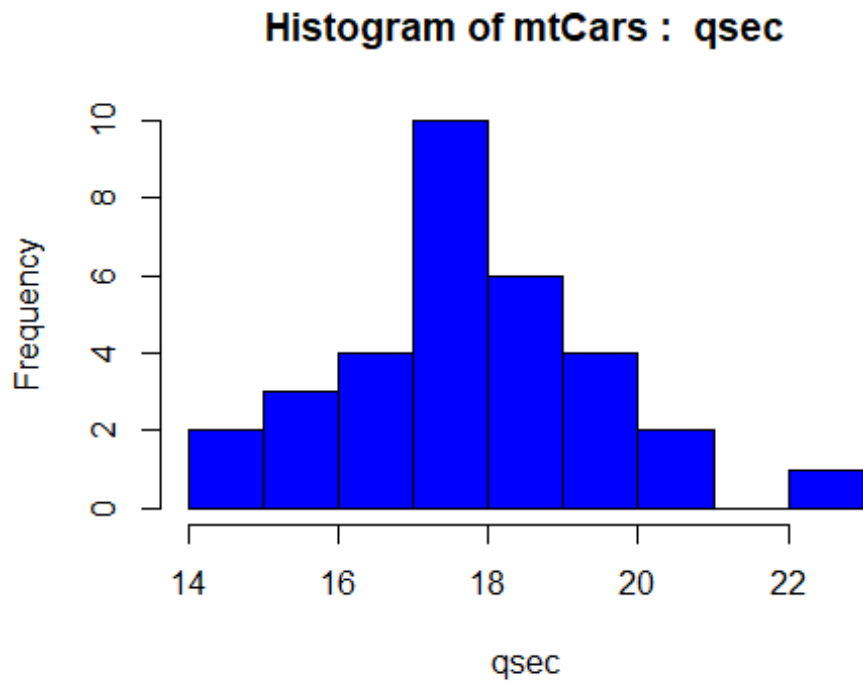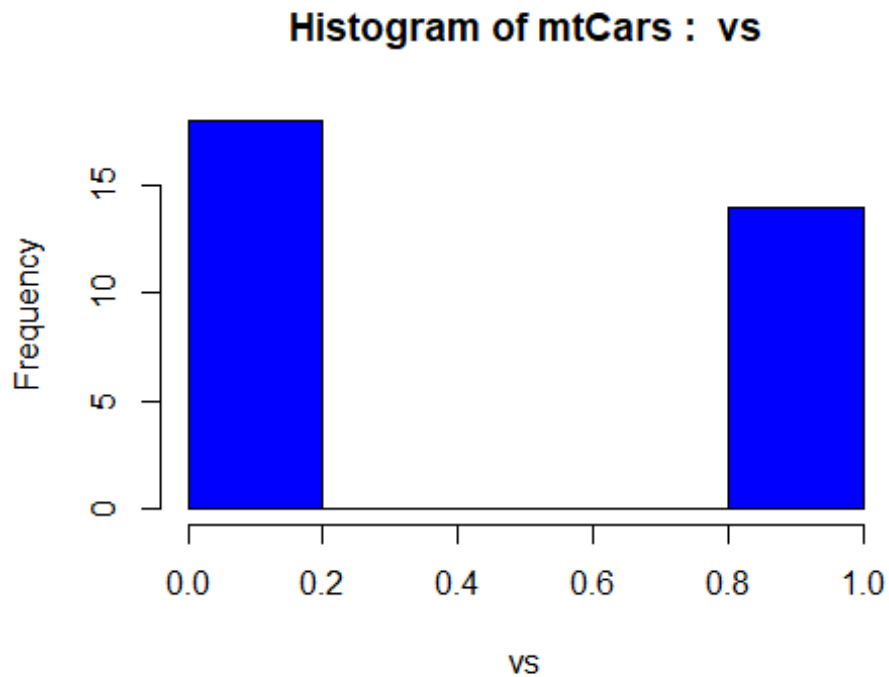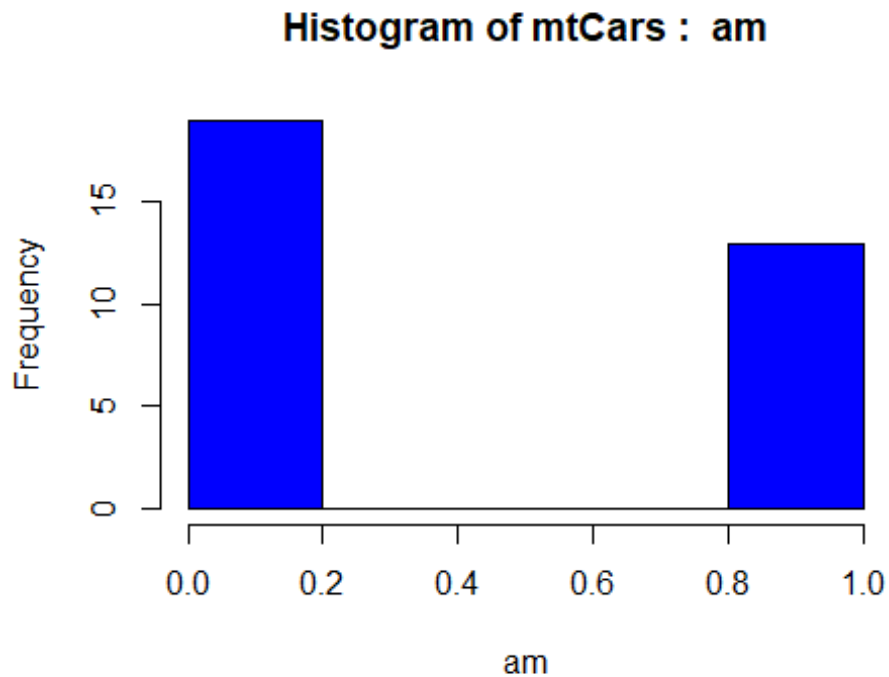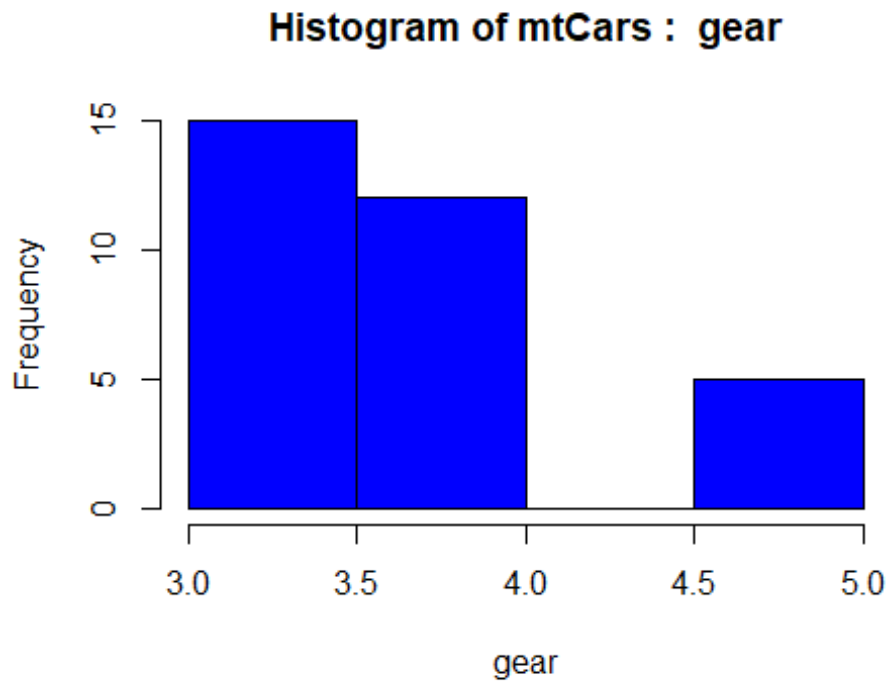
Histogram of mtCars : qsec


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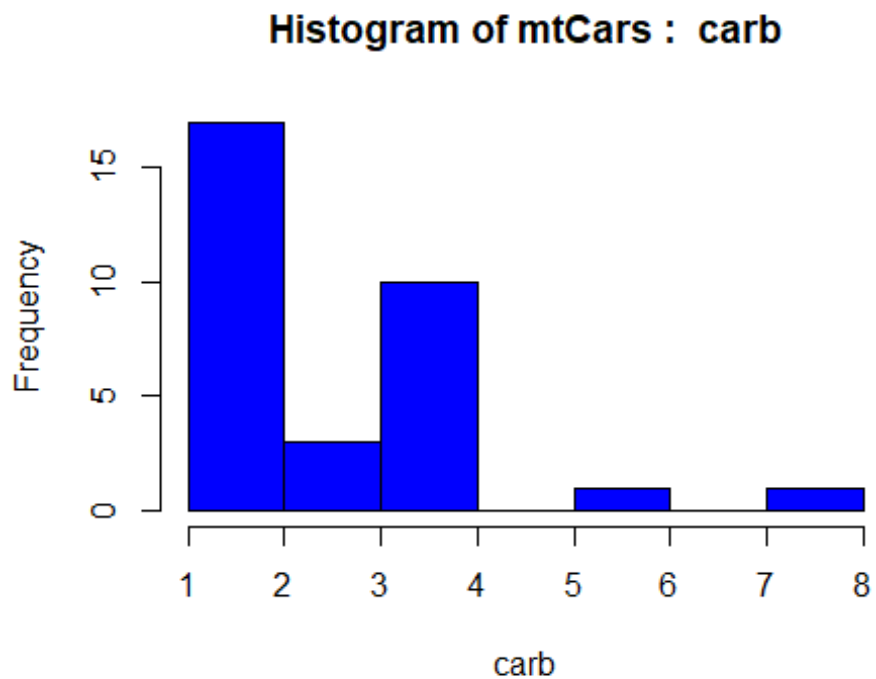
Histogram of mtCars : vs


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Histogram of mtCars : am


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```
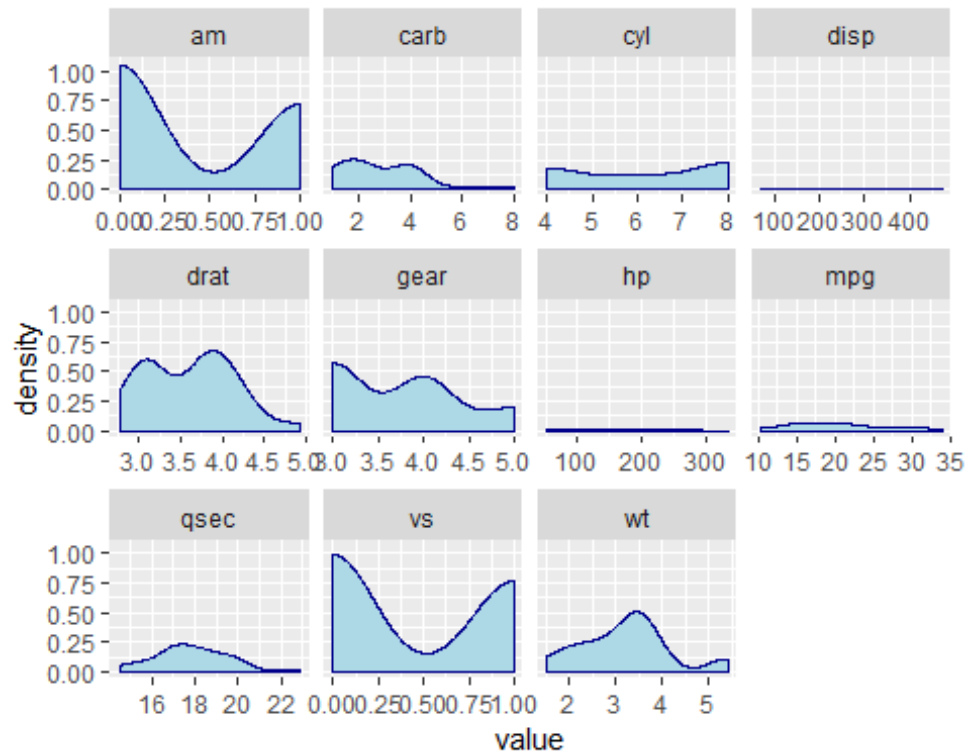
Histogram of mtCars : gear


```
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```

Histogram of mtCars : carb

carb

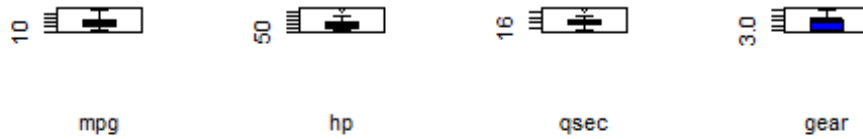#2. Check the probability distribution of all variables in mtcars

```
library(tidyr)
library(ggplot2)
library(plyr)
ggplot(gather(mtcars), aes(value)) +
  geom_density(color ="darkblue",fill="lightblue") +
  facet_wrap(~key, scales = 'free_x')
```
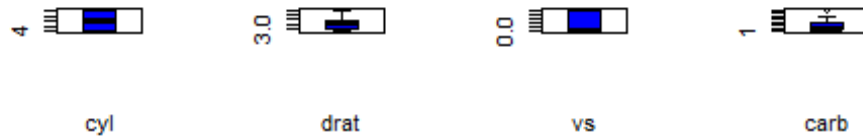
#3. Write a program to create boxplot for all variable

```r
par(mfcol=c(3,4))
for (col in 1:ncol(mtcars)) {
  boxplot(mtcars[,col],type='l',
        main=paste("bloxplot of mtCars : ",names(mtcars[col])),
        xlab=names(mtcars[col]),
        type="l",
        col = "blue")
}
```
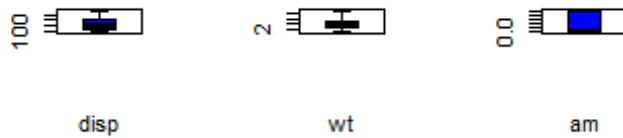
loxplot of mtCars : bloxplot of mtCars loxplot of mtCars : loxplot of mtCars :

mpg   hp   qsec   gear

bloxplot of mtCars bloxplot of mtCars : bloxplot of mtCars loxplot of mtCars :

cyl   drat   vs   carb

loxplot of mtCars : bloxplot of mtCars bloxplot of mtCars :

disp   wt   am

R Markdown

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