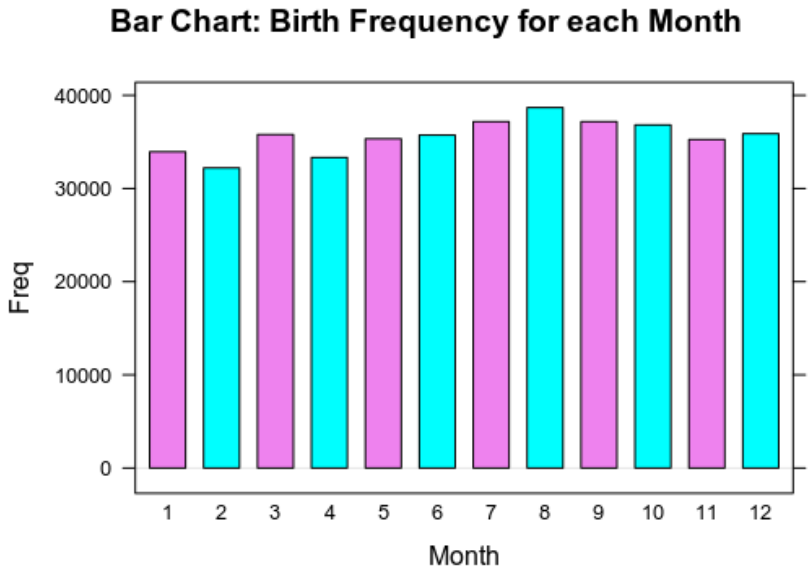
Name:
Roll Number:

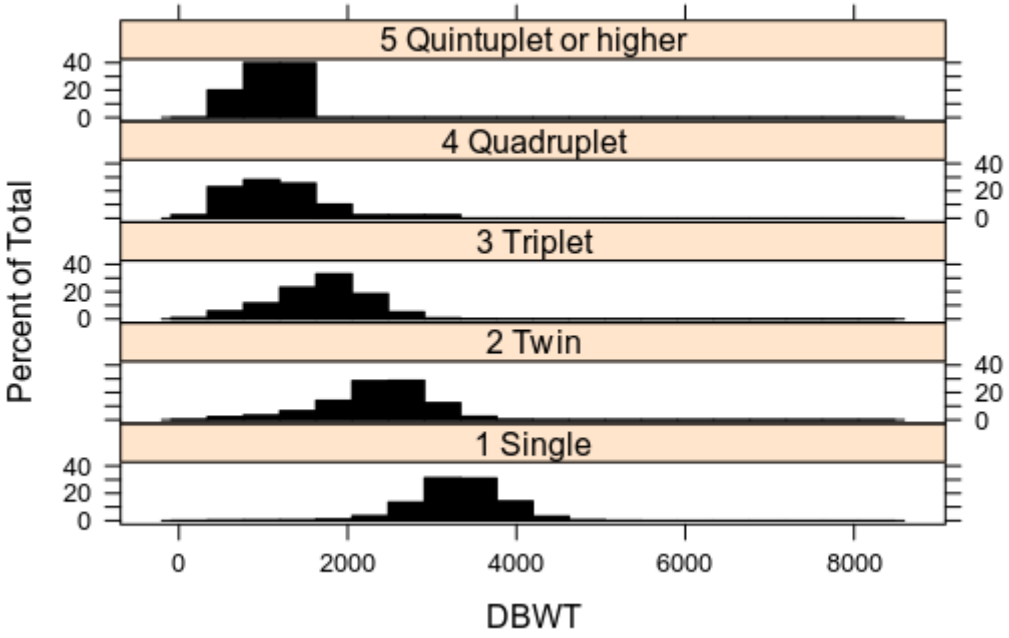
Data Visualisation
Assignment 02.R

```
> library(lattice)
> load( "births2006.smpl.rda")
> births.dow=table(births2006.smpl$DOB_WK)
> births.dom=table(births2006.smpl$DOB_MM)
> births.dop=table(births2006.smpl$DPLURAL)
```

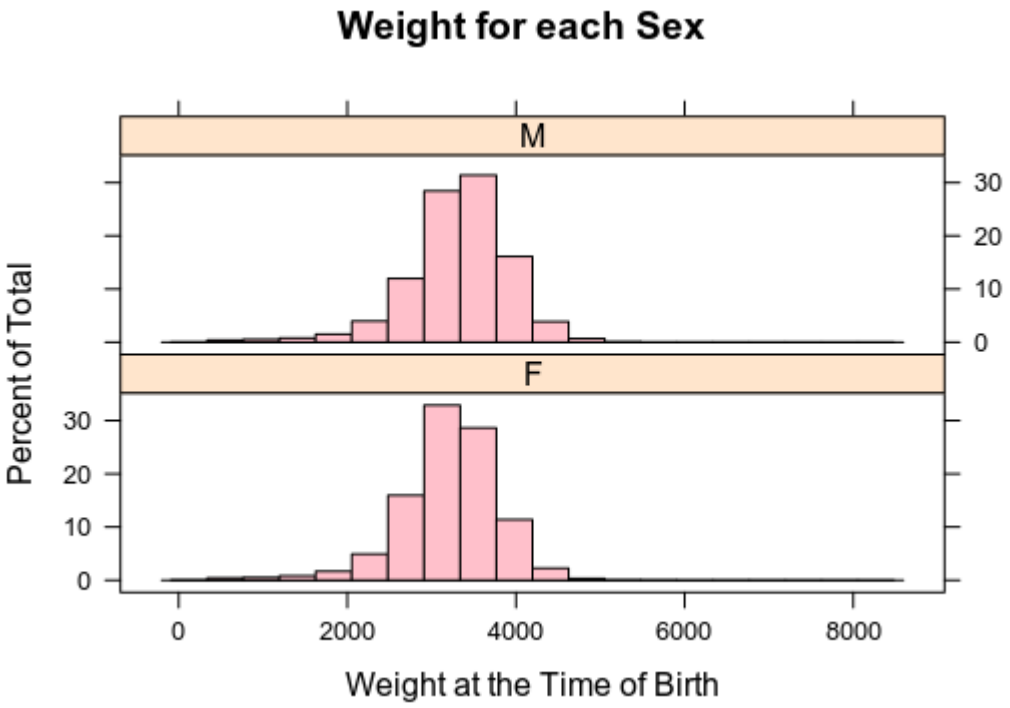
```
> barchart(births.dom, main="Bar Chart: Birth Frequency for each
Month", xlab="Month", col=c("Violet", "Cyan"), horizontal = FALSE)
```



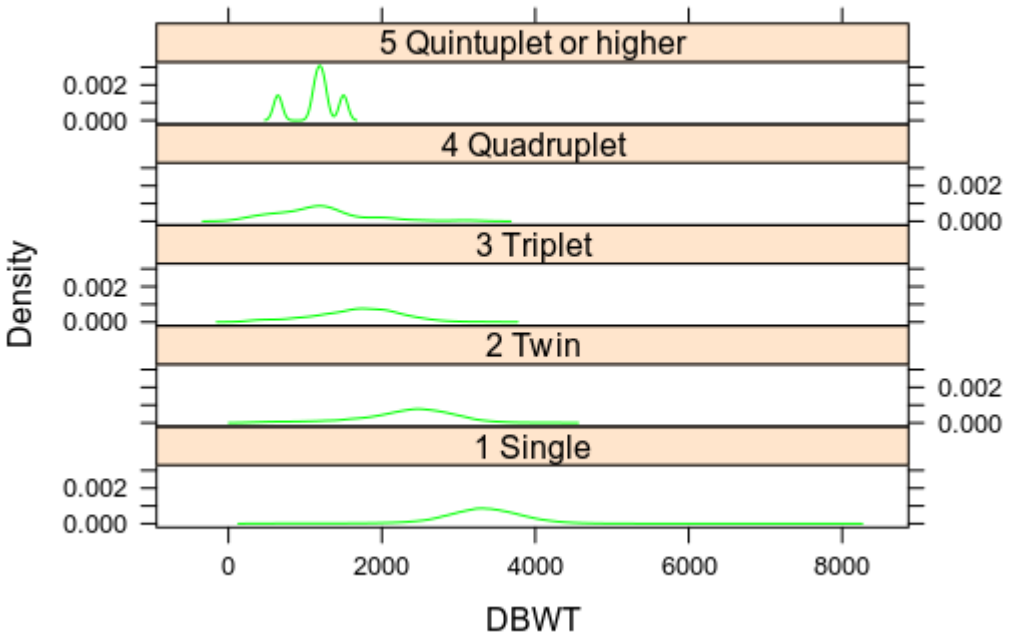

```
> histogram(~DBWT|DPLURAL,data=births2006.smpl,
                                layout=c(1,5), col="black")
```



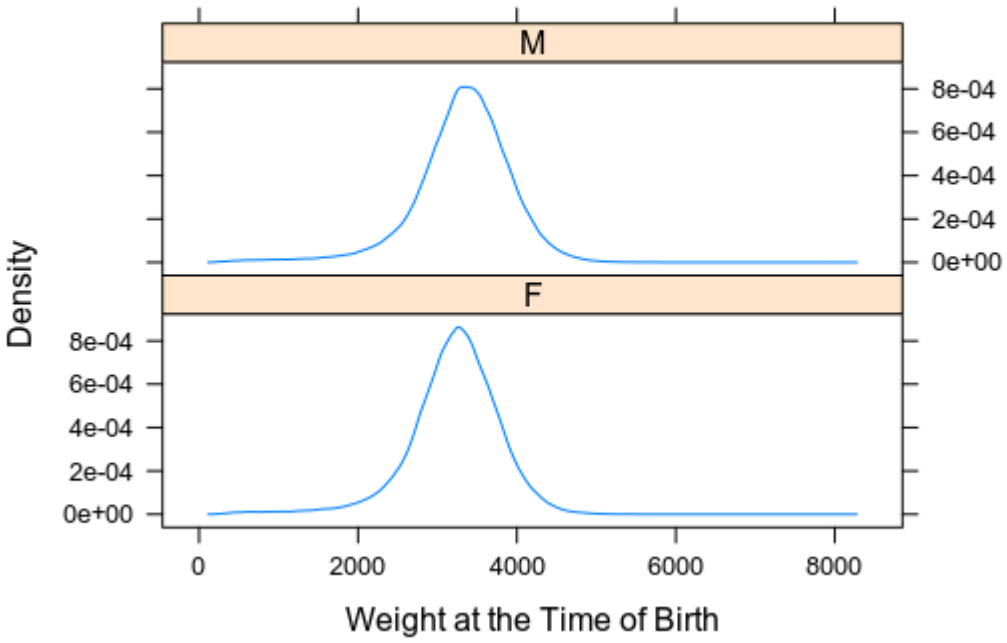
```
> histogram(~DBWT|SEX,data=births2006.smpl,
                    layout=c(1,2), col="Pink",
                    xlab = "Weight at the Time of Birth",
                    main = "Weight for each Sex")
```



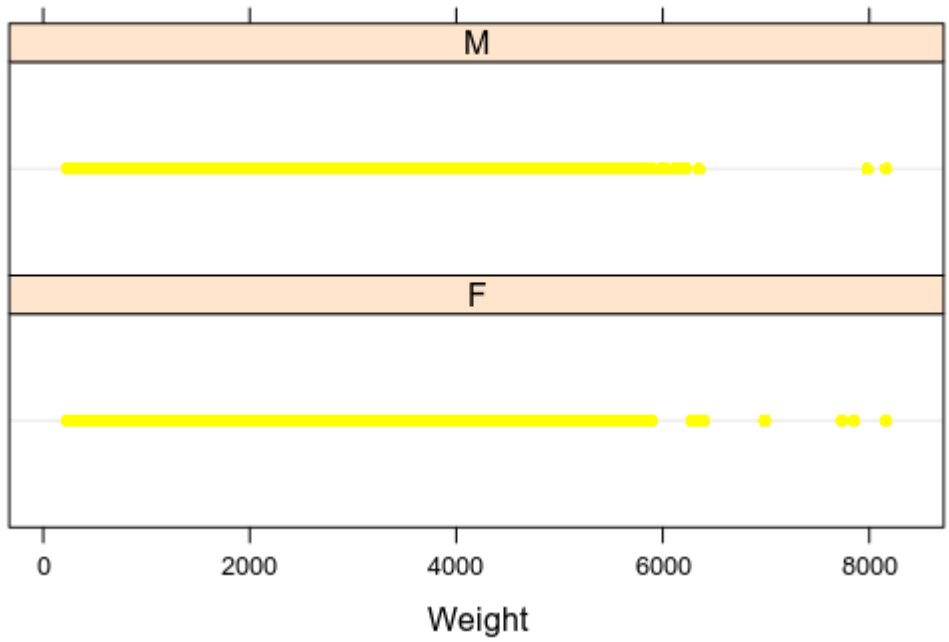

```
>densityplot(~DBWT|DPLURAL,data=births2006.smpl,
                    layout=c(1,5),plot.points=FALSE, col="green")
```



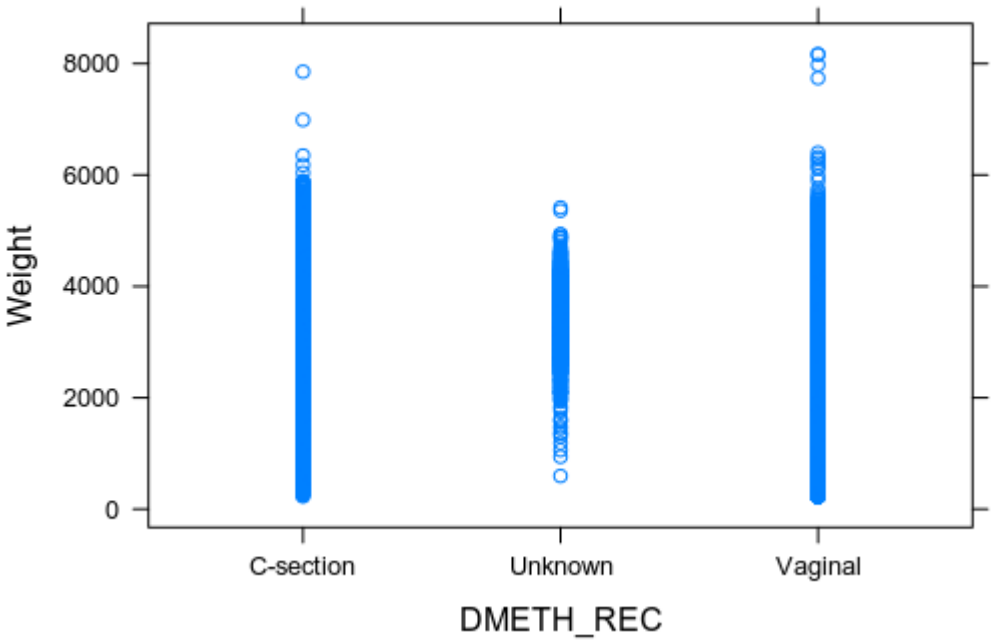
```
> densityplot(~DBWT|SEX, data=births2006.smpl,
            layout=c(1,2), plot.points=FALSE, xlab = "Weight at
              the Time of Birth")
```



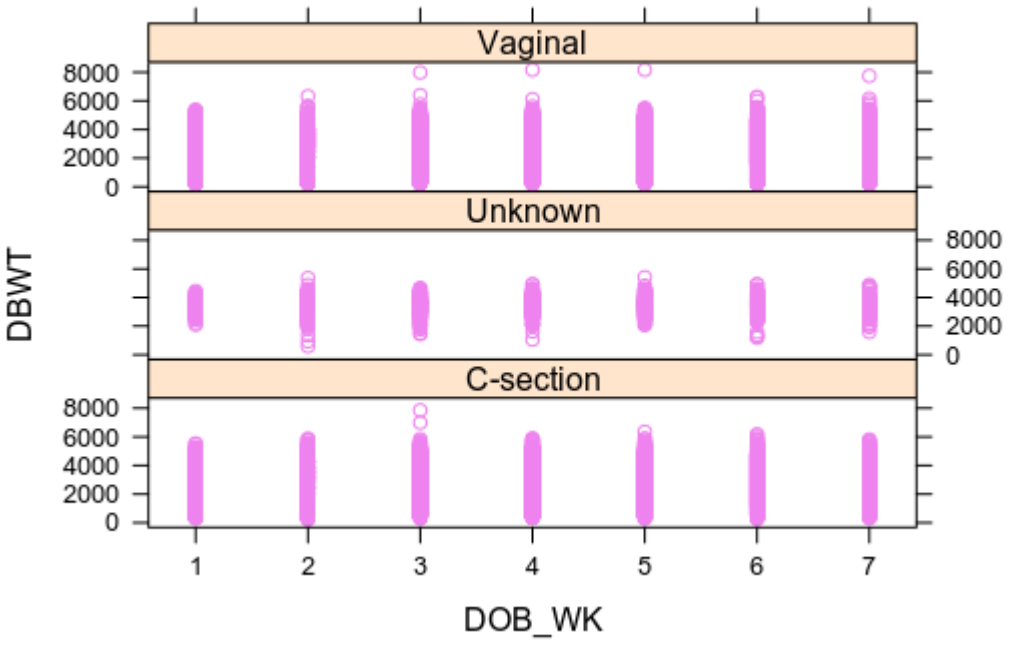

```
> dotplot(~DBWT|SEX,data=births2006.smpl,
        layout=c(1, 2), plot.points=FALSE, xlab = "Weight",
          col="yellow")
```



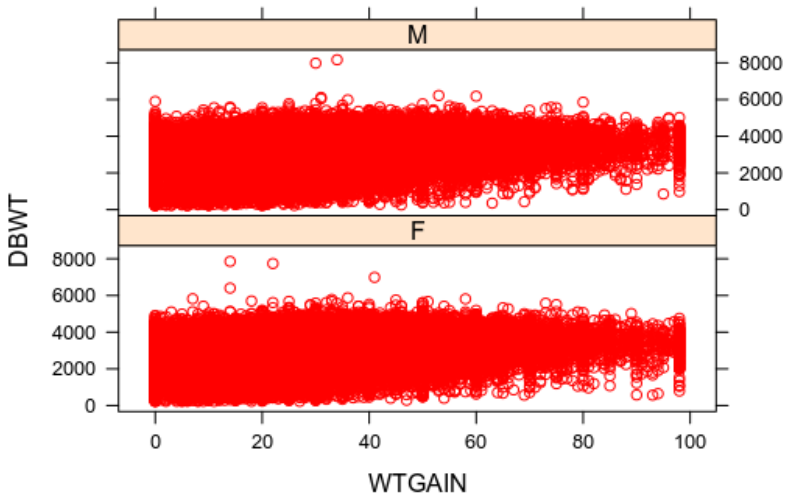
```
> xyplot(DBWT~DMETH_REC, data=births2006.smpl, ylab = "Weight")
```



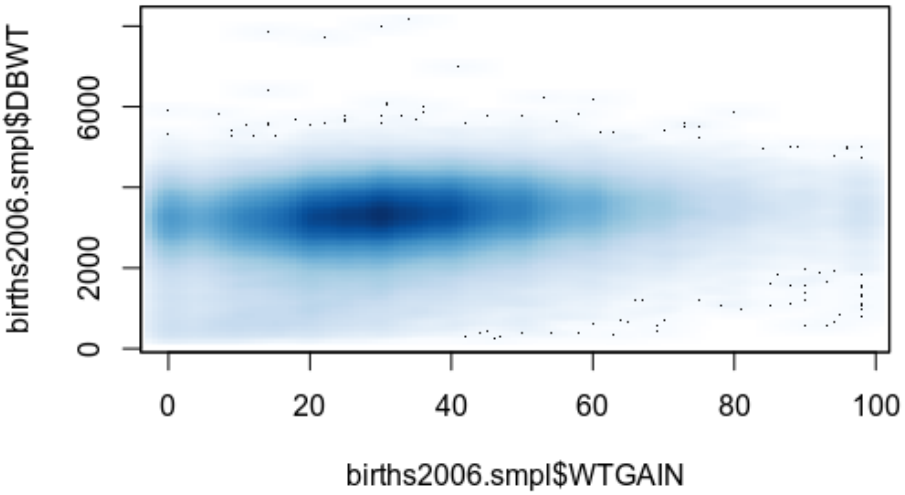

```
> xyplot(DBWT~DOB_WK|DMETH_REC,data=births2006.smpl,
       layout=c(1,3), col="violet")
```



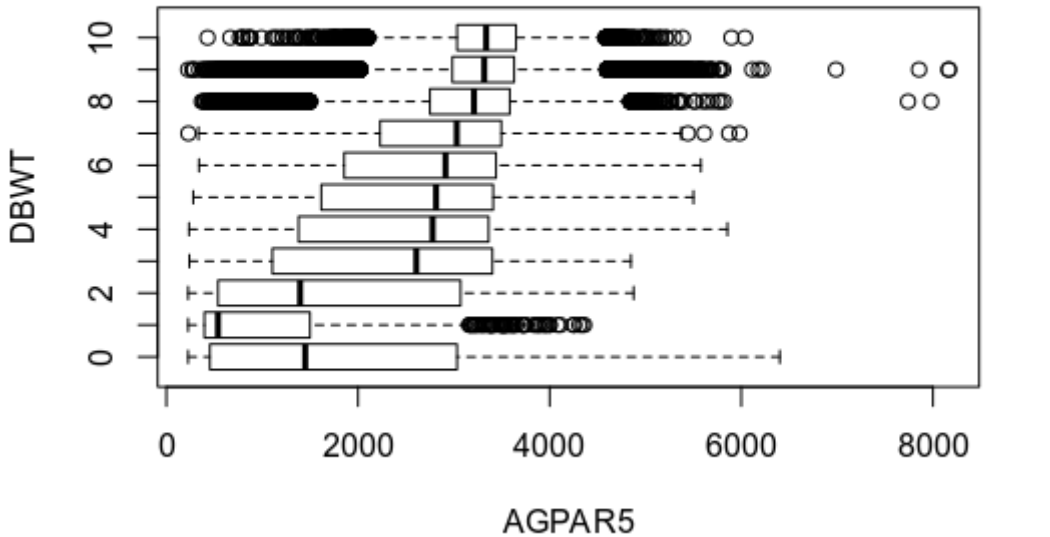
```
> xyplot(DBWT~WTGAIN|SEX,data=births2006.smpl,
       layout=c(1,2), col="red")
```



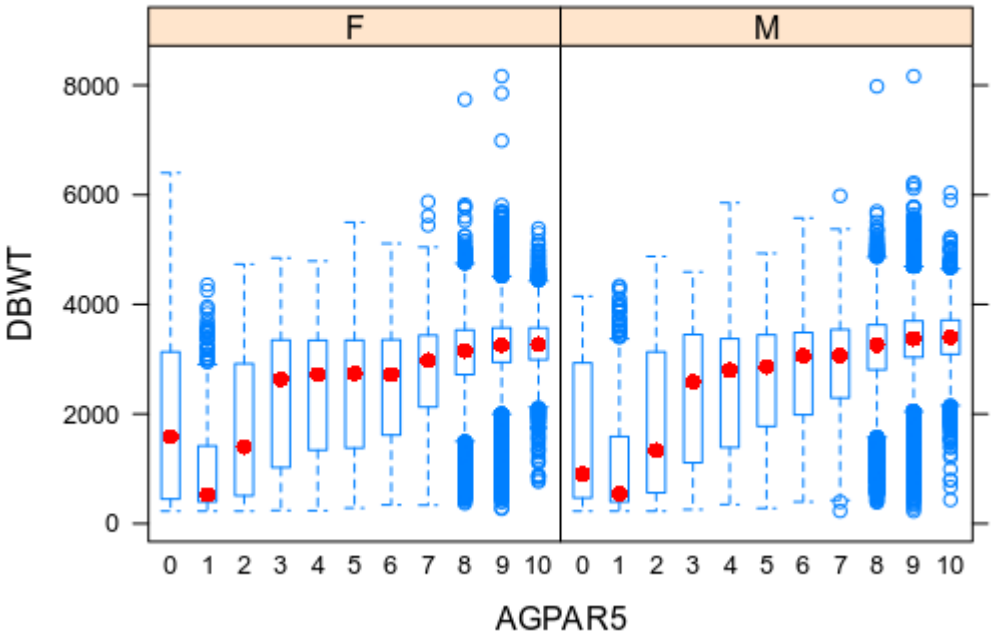

```
> smoothScatter(births2006.smpl$WTGAIN,
              births2006.smpl$DBWT)
```



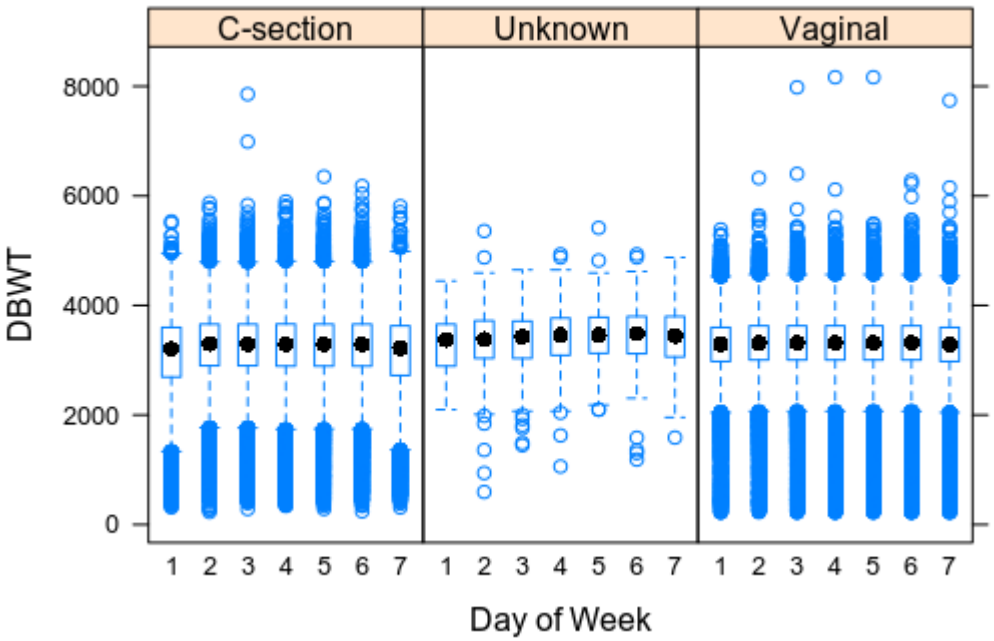

```
> boxplot(DBWT~APGAR5,data=births2006.smpl,
       ylab="DBWT",xlab="AGPAR5", horizontal = TRUE)
```



```
> bwplot(DBWT~factor(APGAR5)|factor(SEX),
       data=births2006.smpl,xlab="AGPAR5", col = "Red")
```




```
> bwplot(DBWT~factor(DOB_WK)|factor(DMETH_REC),
data=births2006.smpl,
       xlab="Day of Week")
```

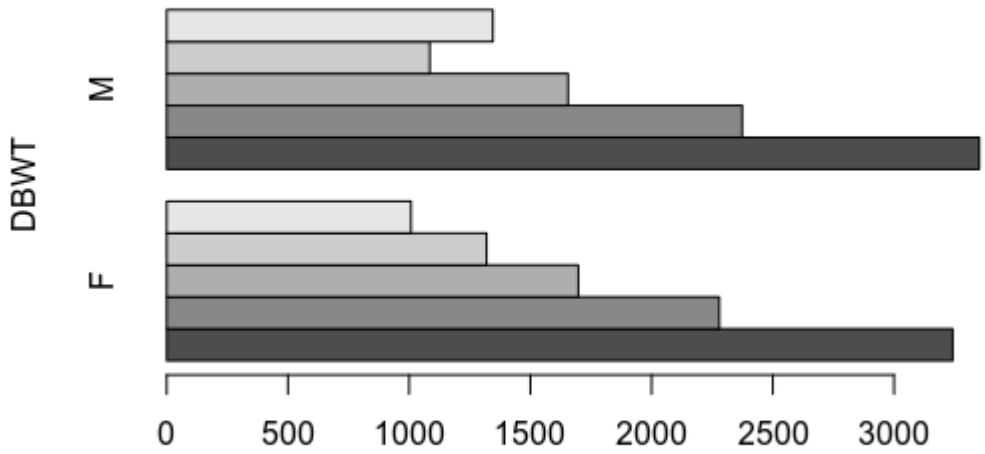



```
> fac=factor(births2006.smpl$DPLURAL)
> res=births2006.smpl$DBWT
> t4=tapply(res,fac,mean,na.rm=TRUE)
```

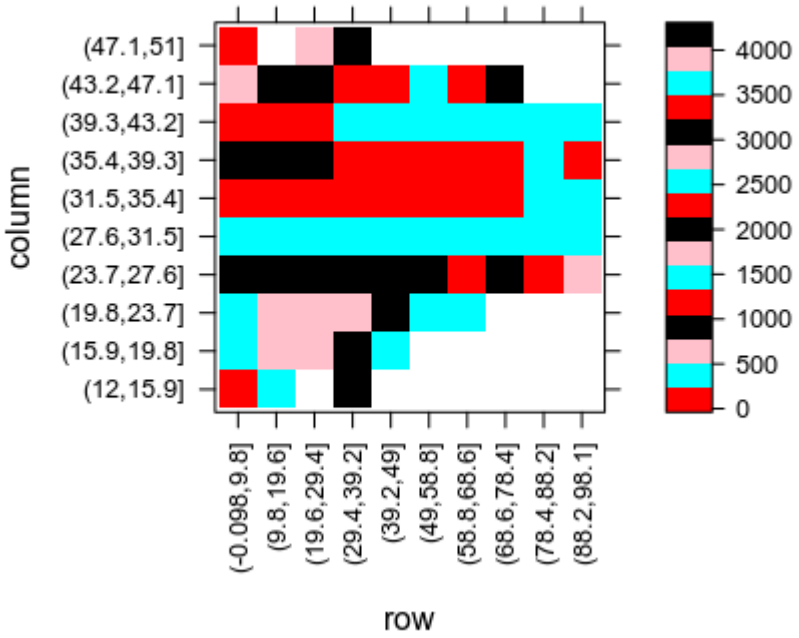
```
> t5=tapply(births2006.smpl$DBWT,
          INDEX=list(births2006.smpl$DPLURAL,
                     births2006.smpl$SEX),
          FUN=mean,na.rm=TRUE)

> barplot(t4, col = "Cyan", ylab = "Weight", main = "Bar Plot")
```


```
> barplot(t5,beside=TRUE, ylab="DBWT", horiz = TRUE)
```



```
> levelplot(t6,scales = list(x = list(rot = 90)), col.regions =
c("red", "cyan", "pink", "black"))
```




```
> contourplot(t6,scales = list(x = list(rot = 90)))
```