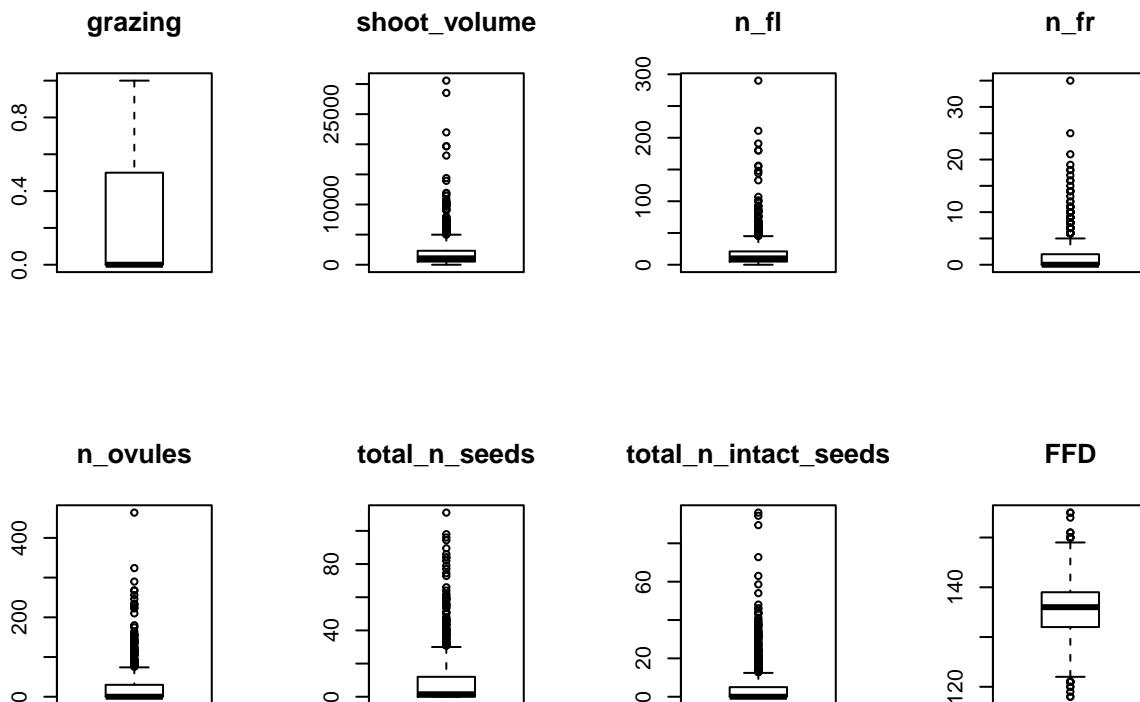# Exploratory analyses Lathyrus

Step 1: Are there outliers in Y and X?

```r
par(mfrow=c(2,4))
boxplot(data_imputed_FFD$grazing,main="grazing")
boxplot(data_imputed_FFD$shoot_vol,main="shoot_volume")
boxplot(data_imputed_FFD$cum_n_fl,main="n_fl")
boxplot(data_imputed_FFD$n_fr,main="n_fr")
boxplot(data_imputed_FFD$n_ovules,main="n_ovules")
boxplot(data_imputed_FFD$total_n_seeds,main="total_n_seeds")
boxplot(data_imputed_FFD$total_n_intact_seeds,main="total_n_intact_seeds")
boxplot(data_imputed_FFD$FFD,main="FFD")
```



```r
Z <- cbind(data_imputed_FFD$grazing, data_imputed_FFD$shoot_vol,
    data_imputed_FFD$cum_n_fl,data_imputed_FFD$n_fr,
    data_imputed_FFD$n_ovules,data_imputed_FFD$total_n_seeds,
    data_imputed_FFD$total_n_intact_seeds,data_imputed_FFD$FFD)

colnames(Z) <- c("grazing","shoot_vol","n_fl","n_fr","n_ovules",
                "total_n_seeds","total_n_intact_seeds","FFD")

dotplot(as.matrix(Z), groups = FALSE,
        strip = strip.custom(bg = 'white',
        par.strip.text = list(cex = 0.8)),
```

```
                scales = list(x = list(relation = "free"),
                              y = list(relation = "free"),
                              draw = F),
            col = 1, cex  = 0.5, pch = 16,
            xlab = "Value of the variable",
            ylab = "Order of the data from text file")
```