

Exercise 8

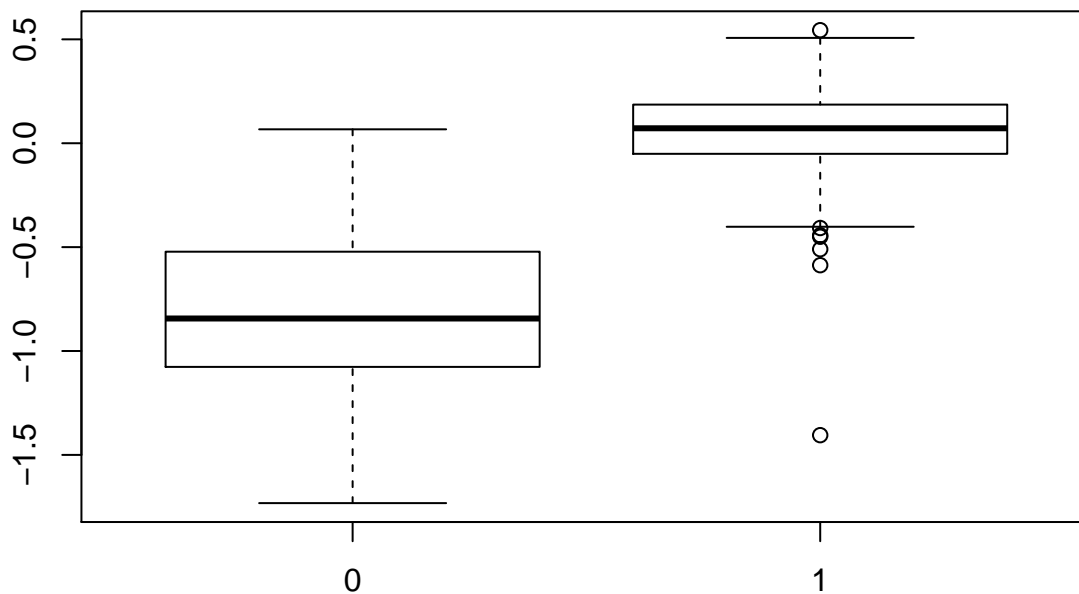
Your Name

11 Dec 2015

```
genes <- read.delim("gene.description.txt")
subjects <- read.delim("cancer.patients.txt")
evals <- read.delim("gene.expression.txt",stringsAsFactors = FALSE)
```

```
ind <- match("GATA3", genes[,2])
probe <- genes[ind,1]
genevals <- evals[match(probe,rownames(evals)),]
```

```
boxplot(as.numeric(genevals)~factor(subjects$er))
```



```
t.test(as.numeric(genevals)~factor(subjects$er))
```

```
##
## Welch Two Sample t-test
##
## data: as.numeric(genevals) by factor(subjects$er)
## t = -19.204, df = 106.52, p-value < 2.2e-16
## alternative hypothesis: true difference in means is not equal to 0
## 95 percent confidence interval:
## -0.9439213 -0.7672735
## sample estimates:
## mean in group 0 mean in group 1
## -0.79421591 0.06138153
```