## Data Analysis Using R: Exercise2

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## 1 Data Cleaning

• Using file "data/survey2014\_student.xls"

```
survey<-read.csv(file="data/survey2014_student.csv",header=TRUE,</pre>
                  sep=";", fileEncoding = "GB2312",
                  numerals = "no.loss",
                  colClasses =
                 c("numeric","character",
                   "numeric", "numeric", "numeric", "numeric"))
dim(s)
s<-na.omit(survey)</pre>
summary(s)
boxplot(s[,3:6])
for (i in 3:6){
hist(s[,i],main = paste("Histogram of variable",colnames(s)[i]))
}
s<-s[s$height<300,]
nrow(s[s$weight<60,c(2:4)])</pre>
#update wrong weight data
#method1
```

## 2 Deal with Batch files

• Download dataset csv.rar

```
#Method1

fileName <- dir("D:/tempdata/csv")
scode<-substr(fileName,1,6)
nfile<-length(fileName)

for(i in 1:nfile){
   assign(paste("s",scode[i], sep=""),
        read.csv(fileName[i],header=TRUE))
}</pre>
```

## 3 Smoothing Binning

• Question:

```
x<-c(13,15,16,16,19,20,20,21,22,25,25,30,33,33,35,35,35,36,40,45,46,52,70)
# 生成 y 变量, 其值为 x 中依次每三个数字的平均值(注:不是移动平均,是每三个数字算一个均值)
```