

Creating Histograms on R

We will use the weight and gender variables in the databank dataset to produce a separate histogram of weights for males and females.

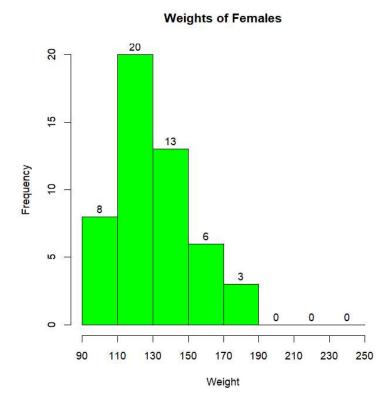
- 1. Open the databank.RData workspace that you created in the <u>introductory lab</u> using File->Load Workspace (on a Mac: workspace > load workspace file)
- **2.** We first extract the weight and gender variables:

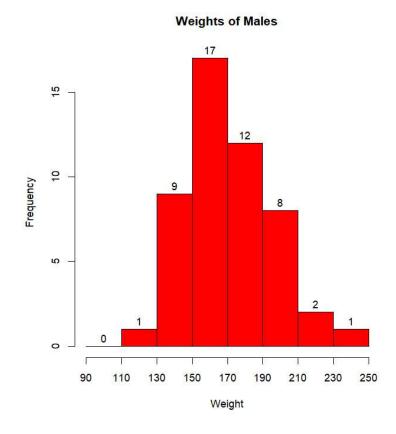
```
weight<-databank$weight
gender<-databank$gender</pre>
```

3. Then we create two new variables containing the weights of females only, and males only, respectively:

```
female_weight<-weight[gender=="F"]
male weight<-weight[gender=="M"]</pre>
```

4. Now we use the hist command to display two separate labeled histograms of weight for females and males using the intervals 90-110, 110-130, 130-150, 150-170, 170-190, 190-210, 210-230, and 230-250:





From the graphs we can see, for example, that 12 males and 3 females in the data set weighed between 170 and 190 pounds (not including 190 pounds).