

# Height Bar Graph

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This is an R Markdown document. Markdown is a simple formatting syntax for authoring HTML, PDF, and MS Word documents. For more details on using R Markdown see <http://rmarkdown.rstudio.com>.

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When you click the **Knit** button a document will be generated that includes both content as well as the output of any embedded R code chunks within the document. You can embed an R code chunk like this:

First, we're going to download the data file from the web:

```
download.file(url = "http://libguides.colostate.edu/ld.php?content_id=27156359",
  destfile = "ex1.csv",
  method="libcurl")
```

Now we're going to load the data from the file into an R variable

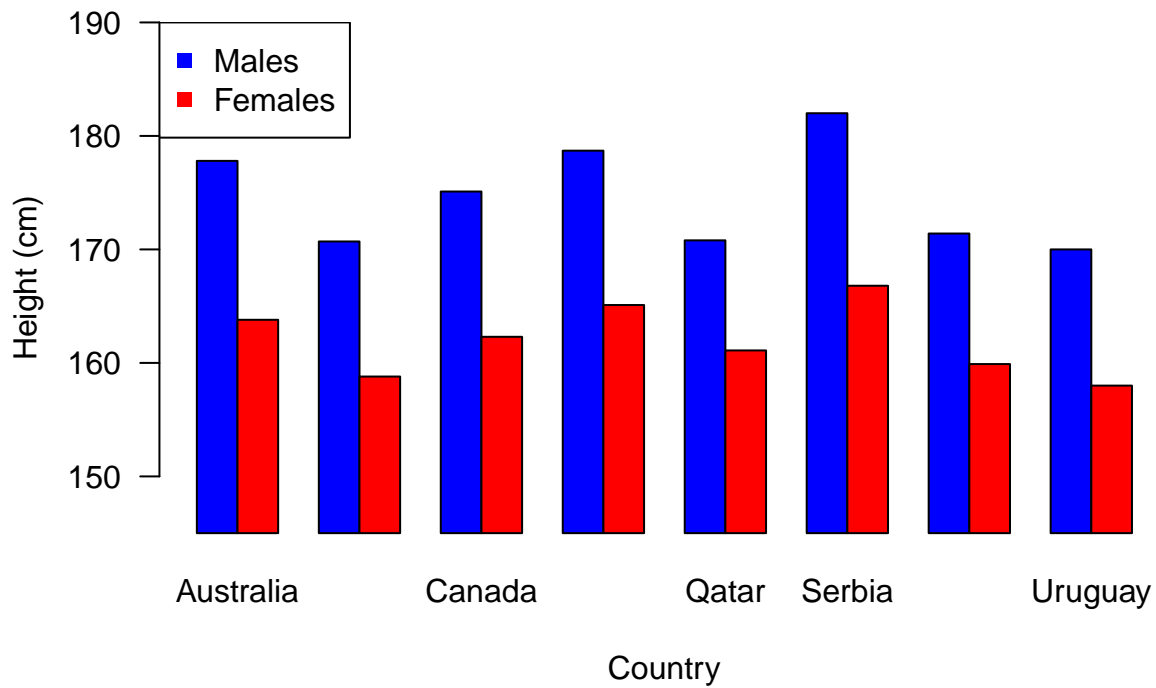
```
height<-read.csv("ex1.csv", row.names="Country")
```

Now let's plot the data:

```
counts<-t(as.matrix(height)) #converts the variable height to a format that
                               #can be plotted
counts<-counts-145           #transforms the data so it looks like the excel plot
barplot(counts,              #the height of the bar
  beside = TRUE,             #put cols next to eachother
  main="Height by country in males and females", #plot title
  xlab="Country",            #X axis label
  ylab="Height (cm)",        #Y axis label
  col=c("blue", "red"),      #bar colors
  offset=145,                #shifts the axis to make it look like excel
  ylim=c(145,190),           #y axis limits
  las=1)                     #horizontal text

legend(x=0, y=190, #coordinates of where you want the legend to go
  legend=c("Males", "Females"), #legend text label
  col=c("blue", "red"),          #colors
  pch=15)                       #shape of legend
```

## Height by country in males and females



This graph was generated using the following R and package versions:

```
sessionInfo()
```

```
## R version 3.3.2 (2016-10-31)
## Platform: x86_64-apple-darwin13.4.0 (64-bit)
## Running under: macOS Sierra 10.12.5
##
## locale:
## [1] en_US.UTF-8/en_US.UTF-8/en_US.UTF-8/C/en_US.UTF-8/en_US.UTF-8
##
## attached base packages:
## [1] stats      graphics  grDevices utils      datasets  methods   base
##
## loaded via a namespace (and not attached):
## [1] backports_1.0.5 magrittr_1.5    rprojroot_1.2  tools_3.3.2
## [5] htmltools_0.3.5 yaml_2.1.13     Rcpp_0.12.7    stringi_1.1.1
## [9] rmarkdown_1.3   knitr_1.14      stringr_1.1.0  digest_0.6.10
## [13] evaluate_0.9
```