

Soybean_plants.R

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Mon Feb 23 19:28:29 2015

```
setwd("~/Dropbox/Documents/Birkbeck/Modules/Current Modules/Research Methods and Data Analysis/2014-15/")
soybean <- read.csv("Soybean_plants.csv", header = T, sep=',')
soybean

##      Stem.Length...cm
## 1          20.2
## 2          22.9
## 3          23.3
## 4          20.0
## 5          19.4
## 6          22.0
## 7          22.1
## 8          22.0
## 9          21.9
## 10         21.5
## 11         19.7
## 12         21.5
## 13         20.9

str(soybean)

## 'data.frame':   13 obs. of  1 variable:
## $ Stem.Length...cm: num  20.2 22.9 23.3 20 19.4 22 22.1 22 21.9 21.5 ...

names(soybean) <- "l"
soybean

##      l
## 1 20.2
## 2 22.9
## 3 23.3
## 4 20.0
## 5 19.4
## 6 22.0
## 7 22.1
## 8 22.0
## 9 21.9
## 10 21.5
## 11 19.7
## 12 21.5
## 13 20.9

m <- mean(soybean$l)
s <- sd(soybean$l)
se <- s / sqrt(length(soybean$l))
m
```

```
## [1] 21.33846
```

```
s
```

```
## [1] 1.218974
```

```
se
```

```
## [1] 0.3380825
```