

Soybean_plants.R

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```
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) <- "1"
soybean
```

```
##      1
## 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$1)
s <- sd(soybean$1)
se <- s / sqrt(length(soybean$1))
m
```

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

```
s
```

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

```
se
```

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