

Confidence Interval (t-Based)

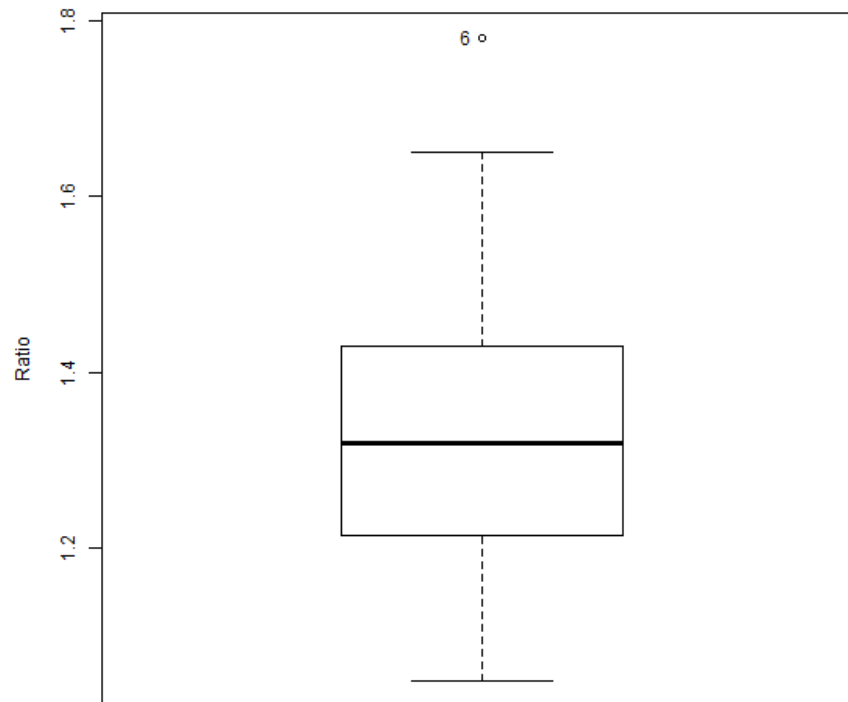
MP

2015-05-14

```
> setwd("D:/Dropbox/R/2015-NUS/Session-1/(b) R-Functions/ConfidenceIntervals")
```

```
> Dataset <-  
+ read.table("D:/Dropbox/R/2015-NUS/Session-1/(b) R-Functions/ConfidenceIntervals/DebtEq.csv",  
+ header=TRUE, sep=",", na.strings="NA", dec=".", strip.white=TRUE)
```

```
> Boxplot( ~ Ratio, data=Dataset, id.method="y")
```



```
[1] "6"
```

```
> summary(Dataset)
```

```
Ratio
Min.  :1.050
1st Qu.:1.215
Median:1.320
Mean  :1.343
3rd Qu.:1.430
Max.  :1.780
```

```
> with(Dataset, (t.test(Ratio, alternative='two.sided', mu=1.34,
+   conf.level=.95)))
```

```
One Sample t-test

data:  Ratio
t = 0.0672, df = 14, p-value = 0.9474
alternative hypothesis: true mean is not equal to 1.34
95 percent confidence interval:
 1.236962 1.449704
sample estimates:
mean of x
 1.343333
```