

Summarizing

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>.

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:

```
library(dplyr)
```

```
## Warning: package 'dplyr' was built under R version 3.1.3
```

```
##
## Attaching package: 'dplyr'
##
## The following objects are masked from 'package:stats':
##
##   filter, lag
##
## The following objects are masked from 'package:base':
##
##   intersect, setdiff, setequal, union
```

```
library(ggplot2)
```

```
## Warning: package 'ggplot2' was built under R version 3.1.3
```

```
library(reshape)
```

```
## Warning: package 'reshape' was built under R version 3.1.3
```

```
##
## Attaching package: 'reshape'
##
## The following object is masked from 'package:dplyr':
##
##   rename
```

```
df = read.csv("C:/workspaces/ufrgs_4/SMPE/lectures/lecture 2/set1.csv", header=T)
head(df, n=2)
```

```
##           A           B
## 1 7.256717 8.261171
## 2 3.813100 4.335301
```

```
summary(df)
```

```
##           A           B
## Min.    :2.400   Min.    : 3.540
## 1st Qu.:3.803   1st Qu.: 4.575
## Median :4.733   Median : 5.674
## Mean    :4.904   Mean    : 5.784
## 3rd Qu.:5.785   3rd Qu.: 6.702
## Max.    :9.173   Max.    :10.027
```

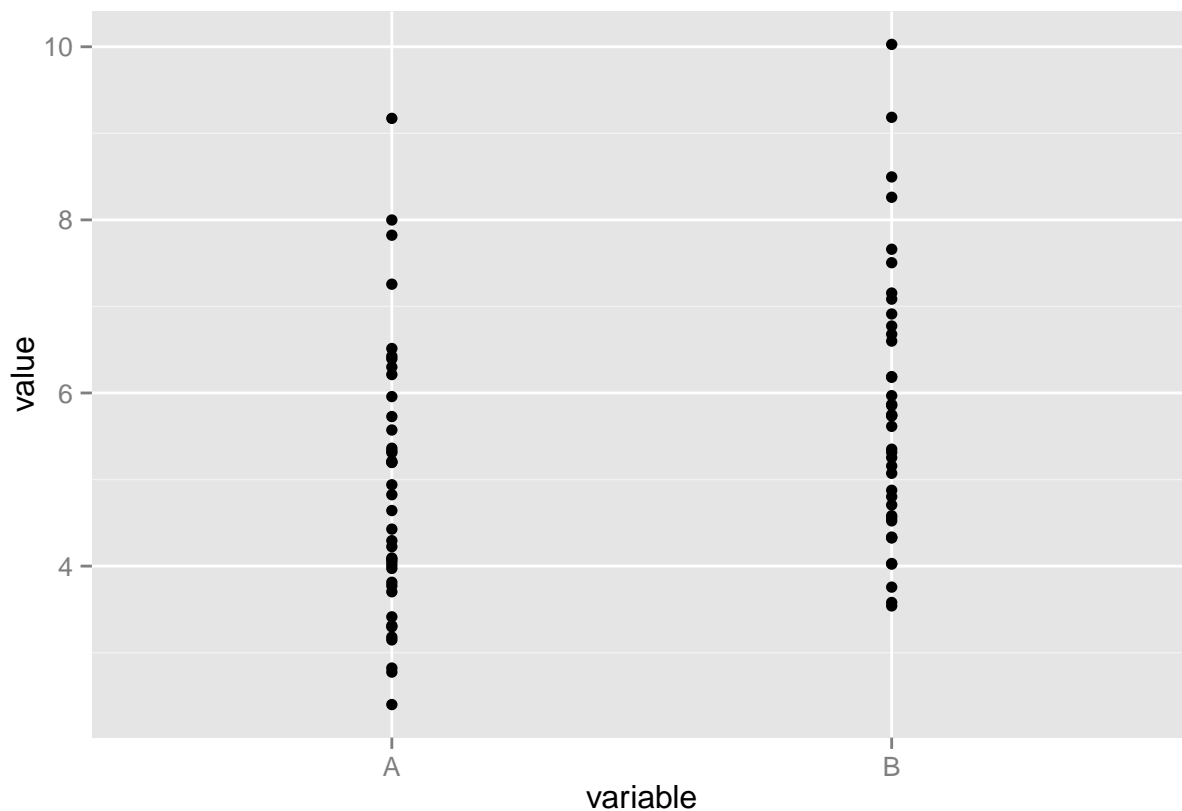
```
cleaner = melt(df)
```

```
## Using as id variables
```

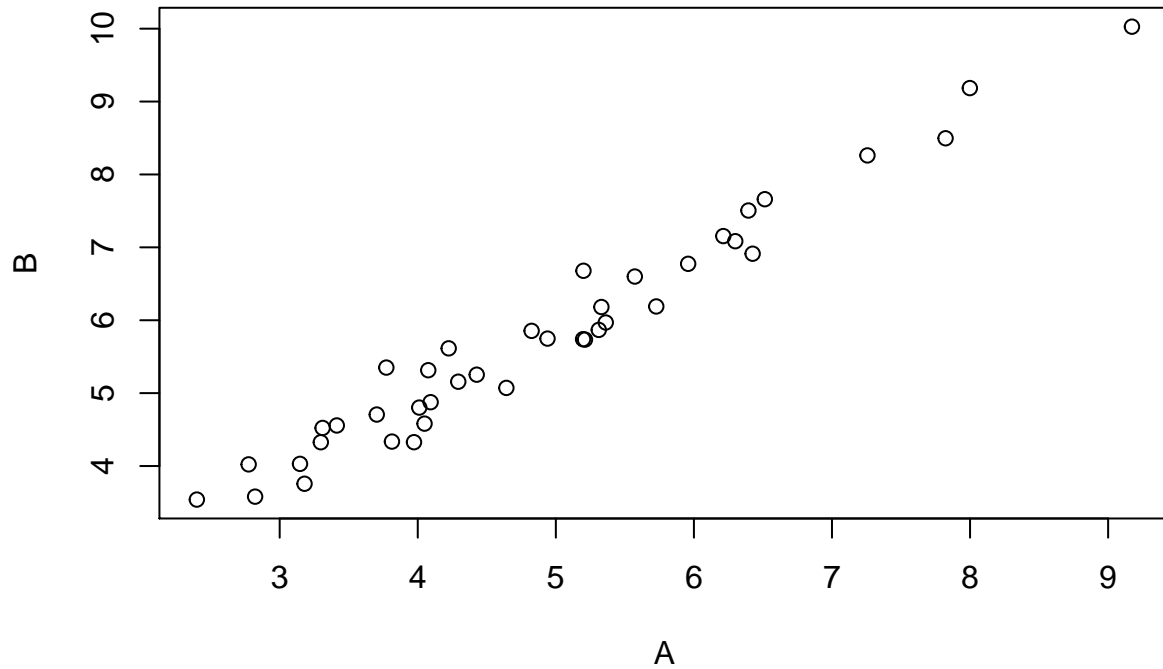
```
head(cleaner)
```

```
##  variable  value
## 1         A 7.256717
## 2         A 3.813100
## 3         A 4.293443
## 4         A 2.775077
## 5         A 4.223963
## 6         A 4.010930
```

```
melted = melt(df, c())
ggplot(data = melted, aes(x=variable , y=value)) + geom_point()
```



You can also embed plots, for example:



Note that the `echo = FALSE` parameter was added to the code chunk to prevent printing of the R code that generated the plot.