Workshop on Doing Data Analysis

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Introduction

This is an R Markdown document to introduce you to R and Rstudio. (For more details on using R Markdown see http://rmarkdown.rstudio.com).

To learn more about R goto QickR clikcing this link: http://www.statmethods.net/

```
print("this is code")
```

Computer code (above) will lead to an action on the screen (below) looking like this:

```
## [1] "this is code"
```

Below is text explaining what happend: You called the function print and it printed the string between the brackets. Try printing hello world..., note what is printed needs to be between the brackets and if it is a string in double quotation marks.

First Step: Calculating something

```
# Commenting
# Simple calculations
5+5

## [1] 10

6^2

## [1] 36

2^8

## [1] 256

2.4 * 4.5

## [1] 10.8
```

```
(3+3)*4+5
## [1] 29
# Square Root
sqrt(4)
## [1] 2
Second Step: Generating Data
# a sequence
1:10
## [1] 1 2 3 4 5 6 7 8 9 10
# Assigning (putting numbers into) variables
a < -4
b<-5
a*b
## [1] 20
c <- 1:10
# c
Third Step: Your workspace ty
getwd() # print the current working directory - cwd
## [1] "C:/Users/Micheal/Dropbox/Professional/Teaching and presentations/ASA-IARS-PGA/seminar/Doing Dat
ls()
       # list the objects in the current workspace
## [1] "a" "b" "c"
Different data types
```

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[1] 0.6