

R Markdown

The Author(s)

Friday, January 16, 2015

R Markdown

This is an R Markdown presentation. 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.

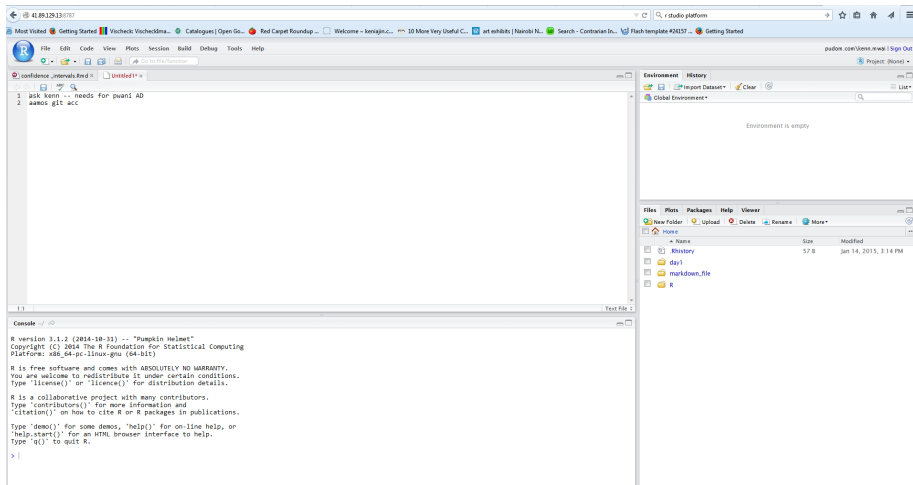
Add a title - here Below are bulleted points

- R is a dialect of the S language.
- S is a language that was developed by John Chambers and others at Bell Labs. S was initiated in 1976
- R was created in 1991 – by Rose Ihaka and Robert Gentleman
- In 1993 R was released to the public. 1997: R core group was formed
2000: R 1.0.0 was released
- We are using R version 3.1.2 (2014-10-31)

Add a title for a table

Data Types	Stores
real	floating point numbers
integer	integers
complex	Complex numbers
factor	categorical data
character	strings
logical	TRUE or FALSE
NA	Missing
NULL	Empty
Function	Function type

Add an image below



Include an R Code

- A vector can only contain objects of the same class

```
a <- c(1,2,5.3,6,-2,4) # numeric vector  
b <- c("one","two","three") # character vector  
c <- c(TRUE,TRUE,TRUE,FALSE,TRUE,FALSE) #logical vector
```

Include an Image again

- Using R Studio to create a Project - From an existing directory

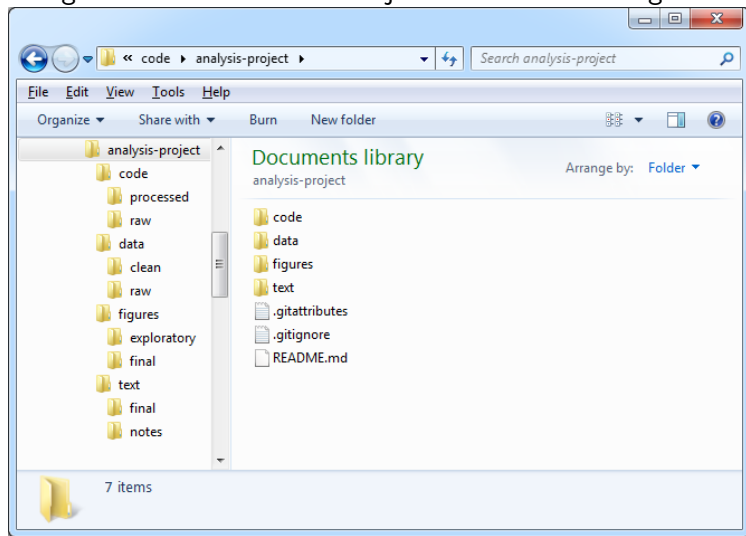


Image again

There are a few principal functions reading data into R.

- `read.table`, `read.csv`, for reading tabular data
- `readLines`, for reading lines of a text file
- `source`, for reading in R code files (inverse of `dump`)
- `dget`, for reading in R code files (inverse of `dput`)
- `load`, for reading in saved workspaces
- `unserialize`, for reading single R objects in binary form

Source: Computing for Data Analysis-Roger Peng

Mathematical Formula

$$P(x > 4) = 1 - [P(x = 0) + P(x = 2) + P(x = 2) + P(x = 3) + P(x = 4)]$$

$$X_{i,j}^2$$

$$\sum_{i=1}^n \left(\frac{X_i}{Y_i} \right)$$

Greek letters

$\alpha, \beta, \gamma, \Gamma$

Special Functions

$$\int_0^{2\pi} \sin x \, dx$$

Useful Links

- RStudio Markdown
- Markdown Cheat Sheet
- Chear Sheet Pdf
- Example
- Example