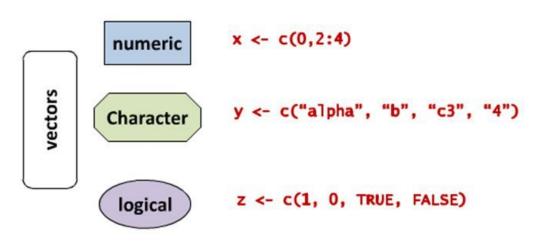
# **Basic Dictionary**

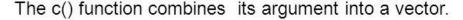
- 1. Summary
- 2. File
- 3. Choose
- 4. FieldBook
- 5. Data
- 6. Attach
- 7. Read
- 8. Write
- 9. Row
- 10. Colum
- 11. Object



- Analysis of Variance (ANOVA)
- 2. Design
- 3. Table
- 4. Data frame
- 5. Library
- 6. Package
- 7. Help
- 8. Plot
- 9. Structure (str)
- 10. Lineal model
- 11. Sheet

## Starting R: Data types



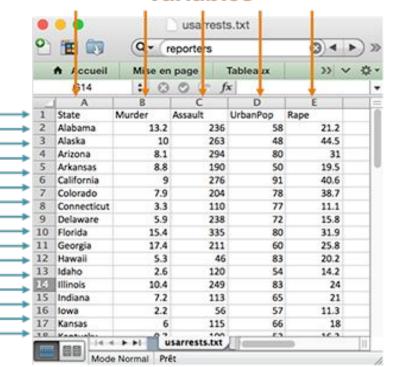


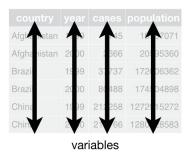
In R the term modes is used to describe data types. There are 4 basic types or **modes**: numeric, character, complex, and logical. These can be combined to form collections or what are called **objects** in R.

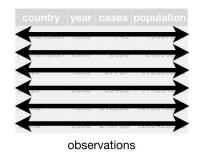


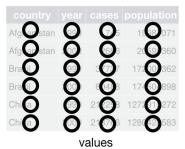
### **Cheat Sheet**

#### **Variables**













### Tablas dinámicas

Typically a scientist or anyone who works with data will end up with several files with different copies of the data and several files with intermediate steps. If you working with data, there should have been a time where you had a file with name data, but now you probably have:

StatTools, 2014 datasharing, 2014

- data
- data\_V01
- data\_V02
- data\_V02\_1
- data DDMMYY
- lastdata
- finaldata
- veryfinaldata
- and some others.

### FieldBook: Have only one data file!!

## FieldBook .: Structure

- 1. General Information Field Book's name:
- 2. Variables list
- 3. Exp. Units Info
- 4. Field Design
- 5. Field Book
- 6. Calendar
- 7. Diary

Location

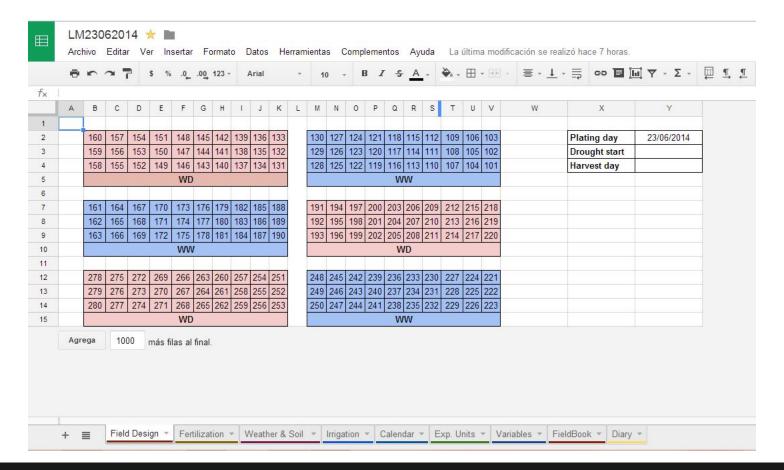
Day

**Month** 

Year

**General Name** 





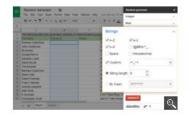
### Random Generator for Google Sheets

Create almost any type of random data in your sheet

Add this sidebar add-on to your Google Sheets and select from 5 types of random data to fill the selected range. This add-on is an excellent tool for creating strong passwords, generating random numbers, and populating the cells with dates within a certain time period. Learn how to work with the add-on.

- Fill the selected cells with unique random numbers or dates
- · Get random strings of any length and character set
- Select the range, choose data type and click Generate







RSJ Next Generation Label Printing System

"Label Printing whenever and wherever you want"

### Google Spreadsheet Apps

#### agricolae:

**DCA** 

Diseño completamente al azar

**DBCA** 

Diseño en bloques completos al azar

**DCL** 

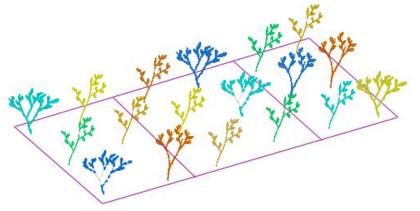
**Diseño Cuadrado Latino** 

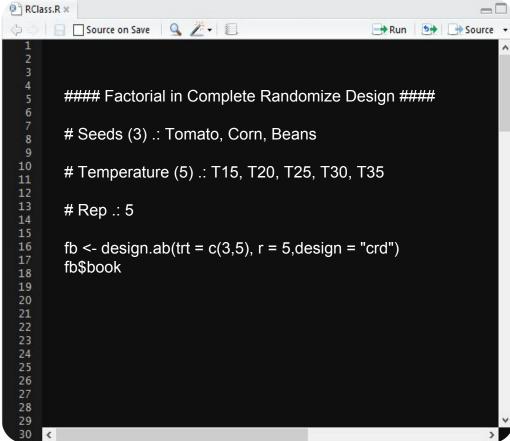
**Split Plot** 

Diseño parcela divididas



### **Experimental Design**





### **Experimental Design**