**major graphic types:**

* time series
* statistical distributions
* maps
* hierarchies
* networks

dim(iris) #dimention

names(iris) #column names

str(iris) #structure

head(iris) #default 6 rows

head (data frame, n) #first n rows

tail (data frame, n) #last n rows

iris[10:15,] #display row 10 to row 15

iris[11,] #row 11

iris[10:20,1] #row 10 to 20 of column 1

summary(iris)

Min.

1st Qu.

Median

Mean

3rd Qu.

Max.

**Elements of figure:**

* title
* subtitle
* y-axis
* y-axis label
* y-axis name
* x-axis
* x-axis label
* x-axis name
* data area
* legend
* sources

by(iris[1:4],factor(iris$Species),cor)

by(data frame, a factor or a list of factors by which the function is applied, function to be applied to subsets of data)