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#####
# 5. DATA IMPORT AND EXPORT
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## 5.1. Current folder
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getwd()    ## shows current folder

dir()      ## shows files in the current folder

setwd("E:/DOCUMENTS/Pedagogics/R-Course_2010/Data") ## sets folder

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## 5.2. Scanf - reads arbitrary data
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## File from Internet / disk
SomeData = scan("http://edu.sablab.net/data/txt/currency.txt",
                what = character(0))
SomeData

## HTML from Internet
Google = scan("http://google.com",what = character(0))
Google

##-----
## 5.3. Read table (from Internet or local folder)
##-----
Currency = read.table("http://edu.sablab.net/data/txt/currency.txt",
                      header=T, sep="\t")
str(Currency)

## let's ask to do not transfere strings to factors
Currency = read.table("http://edu.sablab.net/data/txt/currency.txt",
                      header=T, sep="\t", as.is=T)
str(Currency)
head(Currency)
summary(Currency)
fix(Currency)
## first plot :)
plot(Currency$EUR)

##-----
## 5.4. "GE" a big dataset: use "download.file" and "load"
##-----
download.file("http://edu.sablab.net/data/all.Rdata",
              destfile="all.Rdata",mode = "wb")
## check the current folder for ".Rdata" file
getwd()      # show current folder
dir(pattern=".Rdata") # show files in the current folder
load("all.RData") # load the data
ls()
str(GE.matrix)
## see the annotation for dimentions
attr(GE.matrix,"dimnames")

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## 5.5. Data export
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