

Tarea: importación de datos en R

Análisis Exploratorio de Datos, Máster en Ciencia de Datos- UV

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2023-07-09

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1 Introducción.

El objetivo de esta tarea es realizar la importación de cinco archivos diferentes, cada uno de ellos en un formato distinto.

2 Apartado. Instalación de paquetes

Incluimos todas las librerías necesarias para la ejecución del código en la siguiente lista. `packages = c("tidyverse","knitr","readxl", "haven", "BiocManager", "BiocManager::install("rhdf5")"`)

Si la librería no está instalada se instalará y cargará, si no solo se cargará.

```
# Especificamos las librerías necesarias en esta lista

packages = c("tidyverse","knitr", "readxl", "haven","BiocManager")

#use this function to check if each package is on the local machine
#if a package is installed, it will be loaded
#if any are not, the missing package(s) will be installed and loaded
package.check <- lapply(packages, FUN = function(x) {
  if (!require(x, character.only = TRUE)) {
    install.packages(x, dependencies = TRUE)
    library(x, character.only = TRUE)
  }
})

if (!require("rhdf5", character.only = TRUE)) {
  BiocManager::install("rhdf5")
  library("rhdf5", character.only = TRUE)
```

```

}

#verify they are loaded
search()

[1] ".GlobalEnv"          "package:rhdf5"          "package:BiocManager" "package:haven"
[5] "package:readxl"      "package:forcats"       "package:stringr"      "package:dplyr"
[9] "package:purrr"       "package:readr"         "package:tidyr"        "package:tibble"
[13] "package:ggplot2"     "package:tidyverse"     "package:knitr"        "package:stats"
[17] "package:graphics"   "package:grDevices"     "package:utils"        "package:datasets"
[21] "package:methods"    "Autoloads"             "package:base"

BreadBasket<-read.csv("./data/BreadBasket_DMS.csv")
save(BreadBasket, file="./data/BreadBasket.RData")

Deposito <- read.delim("./data/DFP1_11122015_124700.csv")
save(Deposito, file="./data/Deposito.RData")

ERCA<- readxl::read_excel("./data/ERCA NUEVA2 20161103.xls",
  sheet = "Hoja1 - Tabla 1", col_types = c("numeric",
    "numeric", "date", "text", "date",
    "date", "numeric", "numeric", "text",
    "date", "text", "text", "text", "text",
    "text", "text", "text", "text", "text",
    "text", "numeric", "numeric", "numeric",
    "numeric", "text", "text", "text",
    "text", "text", "text", "text", "text",
    "text", "numeric", "numeric", "skip",
    "numeric", "numeric", "numeric",
    "numeric", "numeric", "numeric",
    "numeric", "numeric", "text", "numeric",
    "numeric", "numeric", "text", "numeric",
    "numeric", "numeric", "numeric", "numeric", "numeric",
    "numeric", "numeric", "numeric"))
save(ERCA, file="./data/ERCA.RData")

Pacientes1<- read_excel("data/subjectInfo.xlsx",
  sheet = "measurments")
Pacientes2<- read_excel("data/subjectInfo.xlsx",
  sheet = "neuropathy")
Pacientes3<- read_excel("data/subjectInfo.xlsx",
  sheet = "tuning fork NSS")
Pacientes4<- read_excel("data/subjectInfo.xlsx",
  sheet = "mobility")
Pacientes5<- read_excel("data/subjectInfo.xlsx",
  sheet = "Durometer")
Pacientes<-list(Pacientes1, Pacientes2, Pacientes3, Pacientes4, Pacientes5)
save(Pacientes, file="./data/Pacientes.RData")

microRNA_Neumo <- read_sav("data/microRNAsNeumonia.sav")
save(microRNA_Neumo, file="./data/microRNA_Neumo.RData")

b<-h5dump("./data/Tensiones1.hdf5")

```

```
Tensiones<-data.frame(b["input"])
colnames(Tensiones)<-b$VarNameSelec
save(Tensiones, file="./data/Tensiones.RData")
```