Introducción a R

Aplicaciones a la enseñanza de la Estadística

IV - Encuentro Colombiano de Educación Estocástica

ACEdEst

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Instalación R y RStudio

https://www.r-project.org/

Descargar e instalar R y RStudio

https://www.youtube.com/watch?v=Nmu4WPdJBRo

Rafa Gonzalez

https://www.rstudio.com/products/rstudio/download/

Resumen

- **Instalar R y RStudio**

- **Variable**:

  - id,cc, telefono, email, nombre,
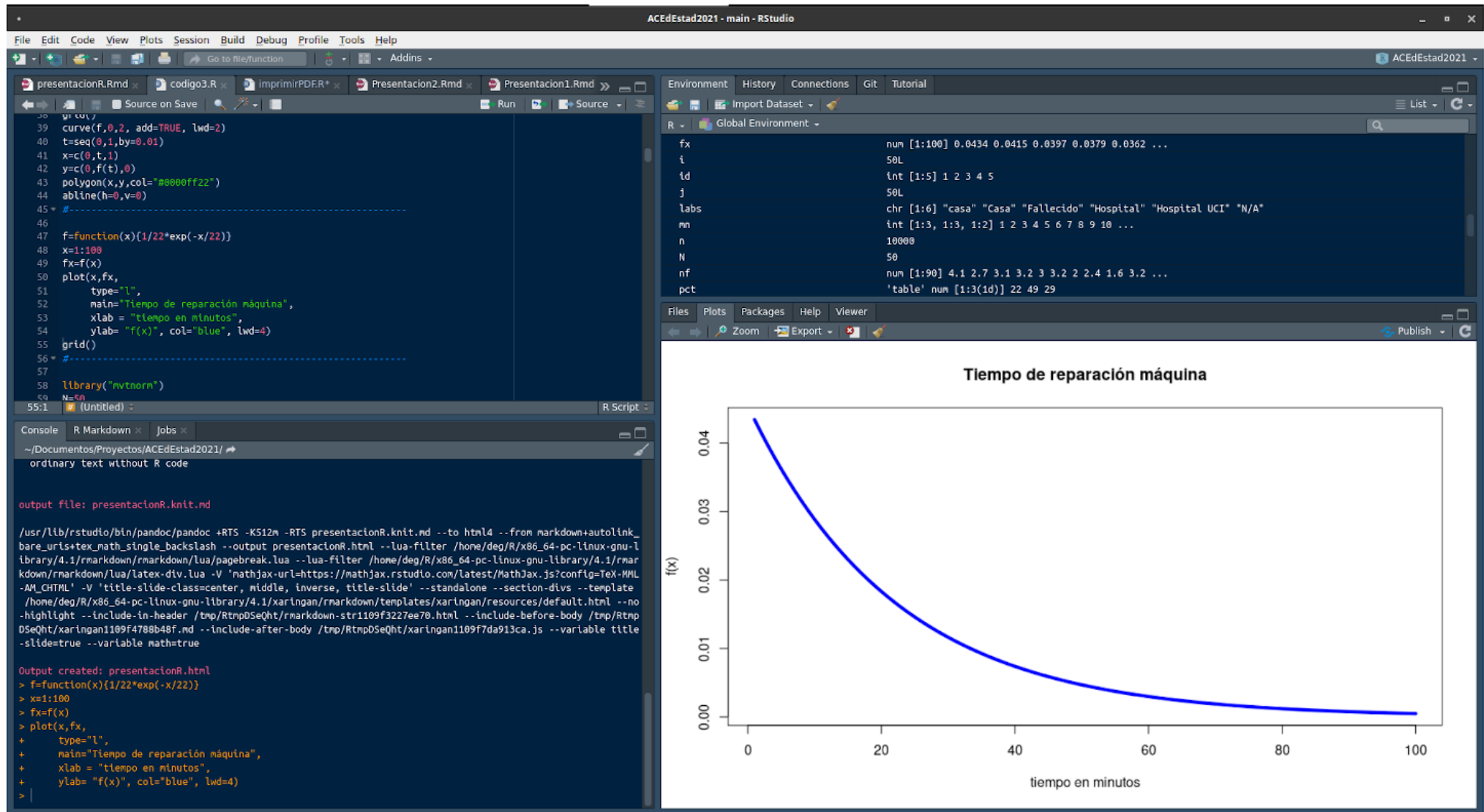 - edad, talla, nacionalidad

- **Tipos de variables**

  - Cualitativas

    - Escala nominal : table(x) pie(table(x))
    - Escala ordianal : table(x)
      barplot(table(x))

  - Cuantitavas :

    - hist(x),
    - boxplot(x),
    - plot(x,y),
    - density(x)

- **Tipo de objetos**

  - Vectores : x = c(1,2,3,4,5,6)

  - Matrices : m = matrix(1:9, nrow=3)

  - Array : a = array(1:27, dim=c(3,3,3))

  - Factor: f = c("A","A","B","B", "C","C")

  - Listas : l=list(x,m,a,f)

  - Funciones: fx=function(x){(x^3+x^2-2*x+8)}

    - fx(3)

Importar datos

- **Dataset de R** : data(iris) , data(cars)

- **Importar datos en DD**

  - library(xlsx)

  - data=read.xlsx("mibase.xlsx")

  - data=read.csv("mibase.csv")

  - library(foreign)

  - data=read.dta("midata.dta")

- **De manera automatica**

  - library(RSocrata)
  - token ="ew2rEMuESuzWPqMkyPfOSGJgE"
    - data=read.socrata("https://www.datos.gov.co/resource/gt2j-8ykr.json", app_token = token))

R online

- rdrr.io

  - https://rdrr.io/snippets/

- codingground

  - https://www.tutorialspoint.com/execute_r_online.php

- RStudio Cloud

  - https://rstudio.cloud/project/577815

- myCompiler

- https://www.mycompiler.io/new/r

RStudio portable

https://support.rstudio.com/hc/en-us/articles/200534467-Creating-a-Portable-Version-of-RStudio-for-a-USB-Drive

R

https://www.r-project.org/

RStudio

https://www.rstudio.com/products/rstudio/download/#download

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