R Sintaxis

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3/27/2021

R: Sintaxis

- R como calculadora:

```
(5 + 10 * 2 / 4) ^ 2 - 5
```

```
## [1] 95
```

- Para **asignar** valor a una variable <-

```
R <- 8.314
R
```

```
## [1] 8.314
```

R: Sintaxis

- Para comentar **#**

```
R <- 8.314 # Constante general de los gases (J K / mol)
R
```

```
## [1] 8.314
```

- Una función se ejecuta así: **nombre_de_la_funciion()**

```
class(R)
```

```
## [1] "numeric"
```

R: Objetos

- **character**

```
una_palabra <- "palabra"
class(una_palabra)
```

```
## [1] "character"
```

- **numeric**

```
this_year <- 2021
g <- 9.81 # m/s2
class(this_year)
```

```
## [1] "numeric"
```

```
class(g)
```

```
## [1] "numeric"
```

R: Objetos - Vectores

- un vector se define usando `c()`

```
puntos_cardinales <- c("N", "E", "S", "W")
puntos_cardinales
```

```
## [1] "N" "E" "S" "W"
```

```
puntos_cardinales_grados <- c(0, 90, 180, 270)
class(puntos_cardinales_grados)
```

```
## [1] "numeric"
```

R: Objetos - Vectores

- Una secuencia usando **seq(inicio, final, intervalo)**

```
del_1al5 <- seq(1, 5)
del_1al5
```

```
## [1] 1 2 3 4 5
```

```
pares_hasta10 <- seq(0, 10, 2)
pares_hasta10
```

```
## [1]  0  2  4  6  8 10
```

```
sec_float <- seq(0, 1, 0.2)
sec_float
```

```
## [1] 0.0 0.2 0.4 0.6 0.8 1.0
```

R Markdown

This is an R Markdown presentation. Markdown is a simple formatting syntax for authoring HTML, PDF, and MS Word documents. For more details on using R Markdown see http://rmarkdown.rstudio.com.

When you click the **Knit** button a document will be generated that includes both content as well as the output of any embedded R code chunks within the document.

Slide with Bullets

- Bullet 1
- Bullet 2
- Bullet 3

Slide with R Output

```
summary(cars)
```

```
##      speed           dist       
##  Min.   : 4.0   Min.   :  2.00  
##  1st Qu.:12.0   1st Qu.: 26.00  
##  Median :15.0   Median : 36.00  
##  Mean   :15.4   Mean   : 42.98  
##  3rd Qu.:19.0   3rd Qu.: 56.00  
##  Max.   :25.0   Max.   :120.00
```

Slide with Plot