

Intro_Rstudio.R

erickCuevas

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```
# Esto es un comentario
```

```
# Funciones basicas
```

```
# Suma
```

```
1000 + 123
```

```
## [1] 1123
```

```
# Resta
```

```
233 - 30
```

```
## [1] 203
```

```
# Exponente
```

```
2**3
```

```
## [1] 8
```

```
2^3
```

```
## [1] 8
```

```
# Division
```

```
125 / 25
```

```
## [1] 5
```

```
# Multiplicacion
```

```
5 * 9
```

```
## [1] 45
```

```
# Notaci??n cientifica
```

```
1E-8
```

```
## [1] 1e-08
```

```
1e-8
```

```
## [1] 1e-08
```

```
# Raiz cuadrada
```

```
sqrt(8)
```

```
## [1] 2.828427
```

```
# Sumatoria
```

```
sum( c(1,2,3,4,5,6,7,8,9) )
```

```
## [1] 45
```

```
# Tipos de variables
```

```
# Numericas
```

```
x <- 1
```

```
y <- 1.2
```

```
z <- 3.1416
```

```
class(x)
```

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

```
# Logicas
```

```
a <- TRUE
```

```
b <- FALSE
```

```
a == b
```

```
## [1] FALSE
```

```
a != b
```

```
## [1] TRUE
```

```
x == y
```

```
## [1] FALSE
```

```
x < y
```

```
## [1] TRUE
```

```
class(a)
```

```
## [1] "logical"
```

```
# Character
```

```
ejemplo <- "abcde"
```

```
class(ejemplo)
```

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

```
#Funciones pre cargadas de R
```

```
#Para numeros
```

```
abs(-1)
```

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

```
ceiling(3.6)
```

```
## [1] 4
```

```
trunc(3.6)
```

```
## [1] 3
```

```
floor(3.6)
```

```
## [1] 3
```

```
cos(90)
```

```
## [1] -0.4480736
```

```
sin(90)
```

```
## [1] 0.8939967
```

```

tan(90)

## [1] -1.9952
exp(2)

## [1] 7.389056
log10(3)

## [1] 0.4771213
log(3)

## [1] 1.098612
log2(3)

## [1] 1.584963
max(c(3, 100, 345, 78))

## [1] 345
min(c(3, 100, 345, 78))

## [1] 3
order(c(3, 100, 345, 78))

## [1] 1 4 2 3
sort(c(3, 100, 345, 78))

## [1] 3 78 100 345
prod(c(3, 100, 345, 78))

## [1] 8073000
range(c(3, 100, 345, 78))

## [1] 3 345
rev(c(3, 100, 345, 78))

## [1] 78 345 100 3
sample(c(3, 100, 345, 78), 1)

## [1] 78
summary(c(3, 100, 345, 78))

##      Min. 1st Qu.  Median    Mean 3rd Qu.    Max.
##      3.00  59.25   89.00 131.50 161.25  345.00
sum(c(3, 100, 345, 78))

## [1] 526
var(c(3, 100, 345, 78))

## [1] 21983

```