

# Untitled

2024-01-31

Escribir texto

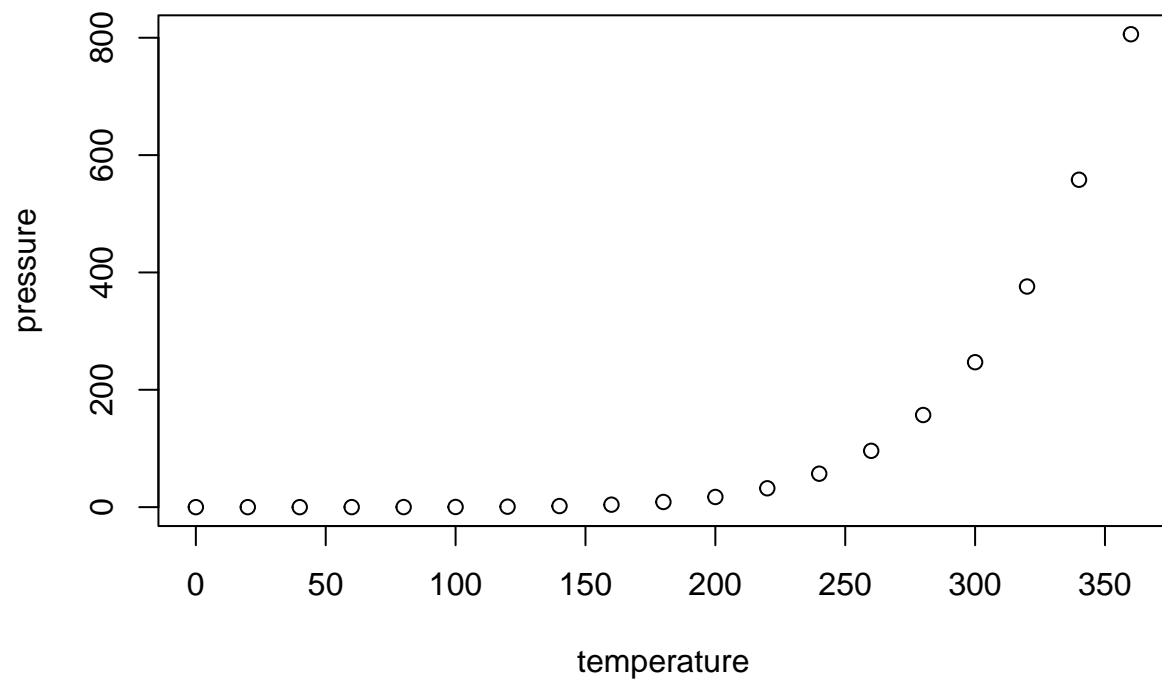
```
x <- 5  
x
```

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

$$\frac{x}{n}$$

# Including Plots ## Including Plots ### Including Plots #### Including Plots ##### Including Plots

You can also embed plots, for example:



Note that the `echo = FALSE` parameter was added to the code chunk to prevent printing of the R code that generated the plot.

# R

```
x <- 5
x
```

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

Datos atómicos

```
5
```

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

```
"asdas"
```

```
## [1] "asdas"
```

```
TRUE
```

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

```
5.7
```

```
## [1] 5.7
```

Estructuras de datos

```
c(3, 4, 5, 6, 7)
```

```
## [1] 3 4 5 6 7
```

Promoción y casteo

```
v <- c("1", 3, 4)
```

```
l <- list(3, 4, 5, "asa", list(2, 3, 5))
```

```
matrix(c(v, v, v), nrow = 3)
```

```
##      [,1] [,2] [,3]
## [1,] "1"  "1"  "1"
## [2,] "3"  "3"  "3"
## [3,] "4"  "4"  "4"
```

```
data.frame(l)
```

```
##      X3 X4 X5 X.asa. X2 X3.1 X5.1
## 1    3  4  5    asa  2    3    5
```

```
factor(v)
```

```
## [1] 1 3 4  
## Levels: 1 3 4
```

```
factor(v, ordered = TRUE)
```

```
## [1] 1 3 4  
## Levels: 1 < 3 < 4
```

ciclos:

- For
- While
- Do-while

```
for(i in seq(1, 10, 2)){  
  print(i)  
}
```

```
## [1] 1  
## [1] 3  
## [1] 5  
## [1] 7  
## [1] 9
```

```
flag <- TRUE  
i <- 0  
while(flag){  
  print(i)  
  i = i + 1  
  print("Ya sumé")  
  if(i == 11){  
    print("Entro el if")  
    flag <- FALSE  
  }  
}
```

```
## [1] 0  
## [1] "Ya sumé"  
## [1] 1  
## [1] "Ya sumé"  
## [1] 2  
## [1] "Ya sumé"  
## [1] 3  
## [1] "Ya sumé"  
## [1] 4  
## [1] "Ya sumé"  
## [1] 5  
## [1] "Ya sumé"  
## [1] 6
```

```
## [1] "Ya sumé"  
## [1] 7  
## [1] "Ya sumé"  
## [1] 8  
## [1] "Ya sumé"  
## [1] 9  
## [1] "Ya sumé"  
## [1] 10  
## [1] "Ya sumé"  
## [1] "Entro el if"
```

```
integer(34)
```

```
## [1] 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
```

```
as.integer(v)
```

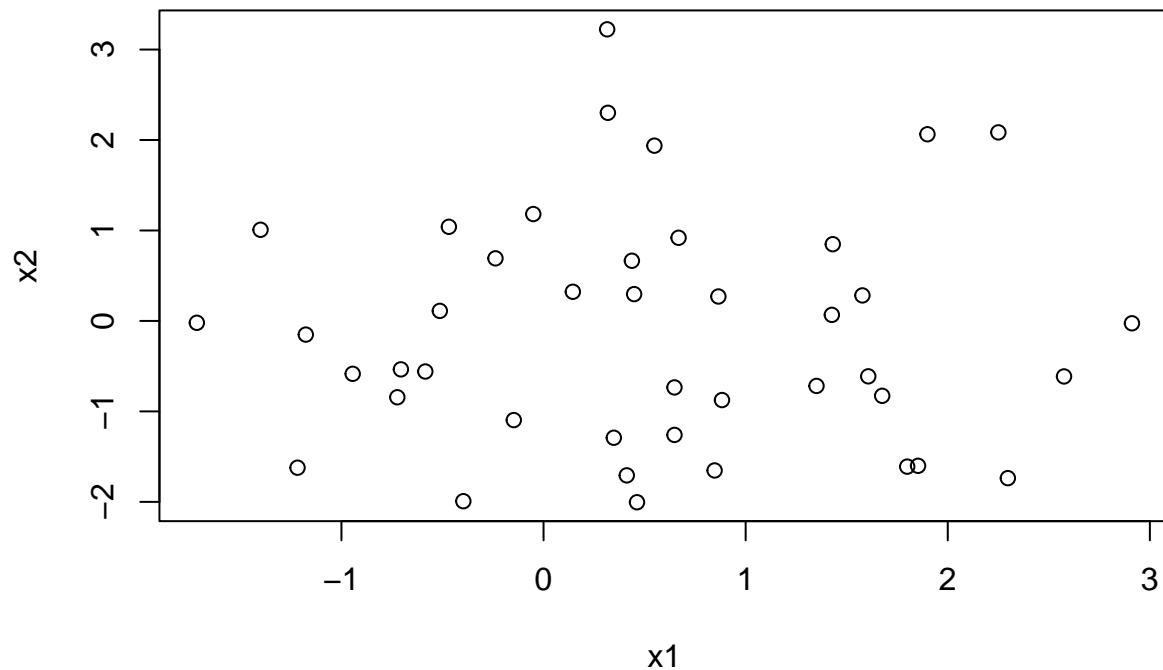
```
## [1] 1 3 4
```

```
?rnorm()
```

Establecemos una semilla

```
x1 <- rnorm(42)  
x2 <- rnorm(42) + rnorm(42)
```

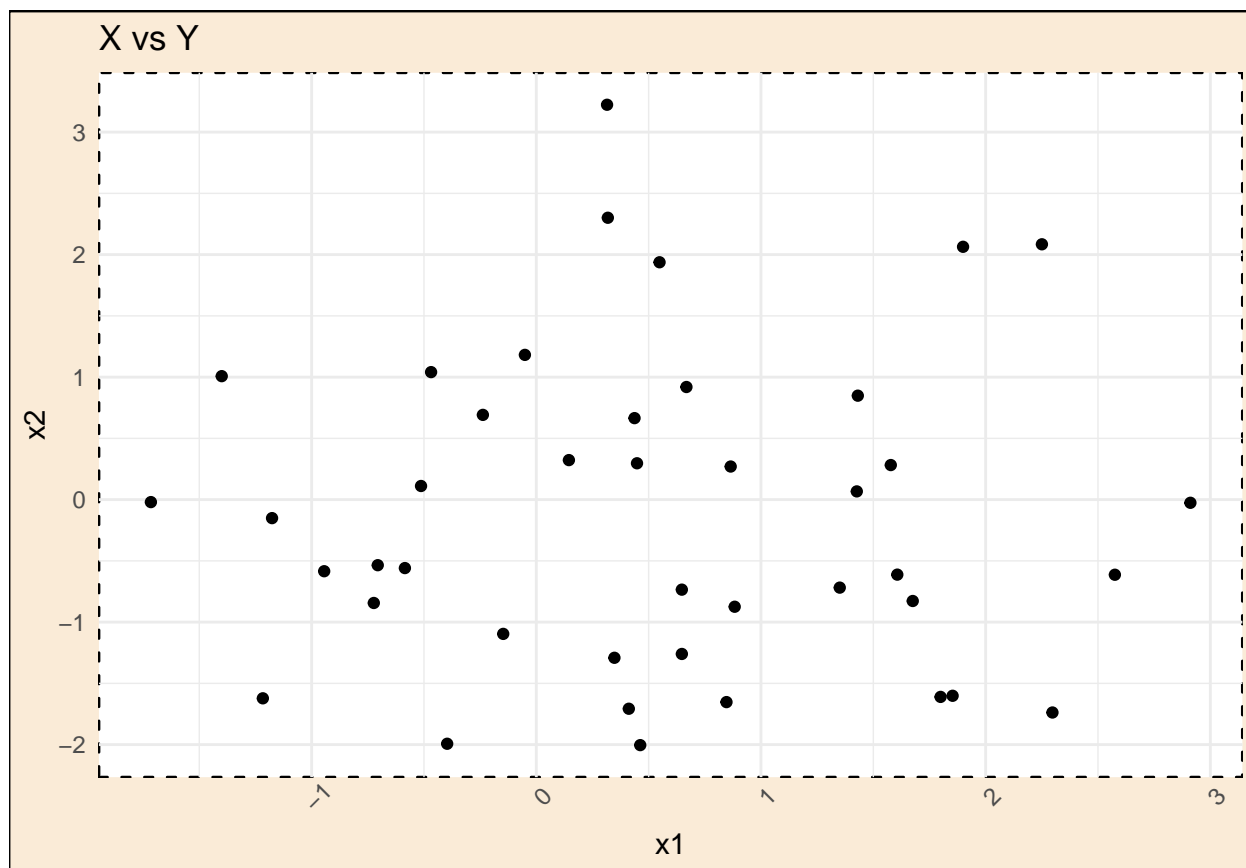
```
plot(x1, x2)
```



```
library(tidyverse)
```

```
## -- Attaching core tidyverse packages ----- tidyverse 2.0.0 --
## v dplyr      1.1.4      v readr      2.1.5
## v forcats    1.0.0      v stringr   1.5.1
## v ggplot2    3.4.4      v tibble    3.2.1
## v lubridate  1.9.3      v tidyr     1.3.1
## v purrr      1.0.2
## -- Conflicts ----- tidyverse_conflicts() --
## x dplyr::filter() masks stats::filter()
## x dplyr::lag()     masks stats::lag()
## i Use the conflicted package (<http://conflicted.r-lib.org/>) to force all conflicts to become errors
```

```
tibble(x1,x2) %>%
  ggplot(aes(x = x1, y = x2)) +
  geom_point() +
  theme_minimal() +
  ggtitle("X vs Y") + theme(axis.text.x = element_text(angle = 45),
    panel.background = element_rect(linetype = "dashed"),
    plot.background = element_rect(fill = "antiquewhite"))
```



En el código anterior hicimos uso del addin ggplot Theme Assistant. Pueden encontrar información aquí y para su instalación pueden ejecutar el siguiente código

```
install.packages("ggThemeAssist")
```