# Lab28 (Markdown)

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LABORATORIO: Tidy data (datos faltantes)

Prerrequisitos instalar paquete tidyverse install.packages("tidyverse")

Cargar paquete tidyverse

```
library(tidyverse)
```

```
## ── Attaching core tidyverse packages ──────────────────── tidyverse 2.0.0 ──
## ✔ dplyr     1.1.4     ✔ readr     2.1.5
## ✔ forcats   1.0.0     ✔ stringr   1.5.1
## ✔ ggplot2   3.5.0     ✔ tibble    3.2.1
## ✔ lubridate 1.9.3     ✔ tidyr     1.3.1
## ✔ purrr     1.0.2
## ── Conflicts ──────────────────────────────────── tidyverse_conflicts() ──
## ✖ dplyr::filter() masks stats::filter()
## ✖ dplyr::lag()    masks stats::lag()
## ℹ Use the conflicted package (<http://conflicted.r-lib.org/>) to force all conflicts to become errors
```

Cargar datos

```
acciones <- tibble(
  anio = c(2015, 2015, 2015, 2015, 2016, 2016, 2016),
  trimestre = c(1, 2, 3, 4, 2, 3, 4),
  retorno = c(1.88, 0.59, 0.35, NA, 0.92, 0.17, 2.66))
```

D1 Convertir en dataframe

```
DF1=acciones
```

DF2 Ver explícitos los valores faltantes

```
DF2=DF1 %>%
  spread(anio, retorno)
```

DF3 Eliminar los valores faltantes (explícitos e implícitos)

```
DF3=acciones %>%
  pivot_wider(names_from=anio, values_from = retorno) %>%
  pivot_longer(
    cols = c("2015","2016"),
    names_to = "anio",
    values_to = "retorno",
    values_drop_na = TRUE
    )
```

DF4 Otra forma para hacer explícitos los valores faltantes (conservando la estructura original)

```
DF4 = DF1  %>%
  complete(anio, trimestre)
```