

Lectura y escritura (csv y xlsx)

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```
#importar datos CSV  
#para la primera forma hay que importar la libreria  
  
#Metodo 1  
library(readr)
```

```
## Warning: package 'readr' was built under R version 4.2.3
```

```
pokemon <- read_csv("Pokemon.csv",show_col_types = FALSE)  
head(pokemon)
```

```
## # A tibble: 6 x 12  
##   Name          'Type 1' 'Type 2' Total    HP Attack Defense Sp_Atk Sp_Def Speed  
##   <chr>         <chr>    <chr>   <dbl> <dbl> <dbl>   <dbl> <dbl> <dbl>  
## 1 Bulbasaur    Grass   Poison   318    45    49     49     65     65    45  
## 2 Ivysaur      Grass   Poison   405    60    62     63     80     80    60  
## 3 Venusaur     Grass   Poison   525    80    82     83    100    100    80  
## 4 VenusaurMega~ Grass   Poison   625    80   100    123    122    120    80  
## 5 Charmander   Fire    <NA>    309    39    52     43     60     50    65  
## 6 Charmeleon   Fire    <NA>    405    58    64     58     80     65    80  
## # i 2 more variables: Generation <dbl>, Legendary <lgl>
```

```
#Metodo2  
pokemon2 <- read_csv("Pokemon.csv")  
head(pokemon2)
```

```
##           Name Type.1 Type.2 Total HP Attack Defense Sp_Atk Sp_Def  
## 1      Bulbasaur  Grass Poison   318 45     49     49     65     65  
## 2        Ivysaur  Grass Poison   405 60     62     63     80     80  
## 3        Venusaur  Grass Poison   525 80     82     83    100    100  
## 4 VenusaurMega Venusaur  Grass Poison   625 80    100    123    122    120  
## 5      Charmander   Fire          309 39     52     43     60     50  
## 6      Charmeleon   Fire          405 58     64     58     80     65  
##   Speed Generation Legendary  
## 1    45           1      False  
## 2    60           1      False  
## 3    80           1      False  
## 4    80           1      False  
## 5    65           1      False  
## 6    80           1      False
```

```
#exportar un dataframe a un archivo .csv
write.csv ( x=mtcars, file = "mtcars.csv")
```

```
#importar archivo xlsx
library(readxl)
```

```
## Warning: package 'readxl' was built under R version 4.2.3
```

```
pokemon3 <- read_xlsx("Pokemon.xlsx")
head(pokemon3)
```

```
## # A tibble: 6 x 12
##   Name          'Type 1' 'Type 2' Total    HP Attack Defense Sp_Atk Sp_Def Speed
##   <chr>          <chr>   <chr>   <dbl> <dbl> <dbl>   <dbl> <dbl> <dbl>
## 1 Bulbasaur     Grass   Poison   318    45    49    49    65    65    45
## 2 Ivysaur       Grass   Poison   405    60    62    63    80    80    60
## 3 Venusaur      Grass   Poison   525    80    82    83   100   100    80
## 4 VenusaurMega~ Grass   Poison   625    80   100   123   122   120    80
## 5 Charmander    Fire    <NA>    309    39    52    43    60    50    65
## 6 Charmeleon    Fire    <NA>    405    58    64    58    80    65    80
## # i 2 more variables: Generation <dbl>, Legendary <lgl>
```

```
#install.packages("openxlsx")
library(openxlsx)
```

```
## Warning: package 'openxlsx' was built under R version 4.2.3
```

```
write.xlsx(x=mtcars,file="mtcars.xlsx")
```