Lab29 (Markdown)

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2024-03-13

How to sum a variable by group in R Prerrequisitos Instalar paquetería "data.table" Instalar paquetería "dplyr"

Llamar a las librerías data.table, dplyr, readr

```
library(data.table)
library(dplyr)
```

```
##
## Attaching package: 'dplyr'
```

```
## The following objects are masked from 'package:data.table':
##
##      between, first, last
```

```
## The following objects are masked from 'package:stats':
##
##      filter, lag
```

```
## The following objects are masked from 'package:base':
##
##      intersect, setdiff, setequal, union
```

```
library(readr)
```

Importar archivo 2013

```
data2013 <- read_csv("~/Desktop/greenR_2013.csv")
```

```
## New names:
## Rows: 3392 Columns: 30
## ── Column specification
## ──────────────────────────────────────────────── Delimiter: "," chr
## (9): location_name, product_name, product_name_es.x, ï..product_name, p... dbl
## (21): ...1, product_code, ï..year, import_num_plants, export_num_plants,...
## ℹ Use `spec()` to retrieve the full column specification for this data. ℹ
## Specify the column types or set `show_col_types = FALSE` to quiet this message.
## • `` -> `...1`
```

Transformarlo a una tabla de datos

```
data2013=as.data.table(data2013)
```

Saber qué clase de datos son

```
class(data2013)
```

```
## [1] "data.table" "data.frame"
```

Sumar variable agrupada por una categoría (entidad)

```
resultados2013=data2013 %>%
  group_by(location_name) %>%
  summarise(suma_GCI_2013= sum(GCI_2013, na.rm = TRUE),
          suma_GP_SINVCR= sum(GP_SINVCR, na.rm = TRUE),
          suma_GCP_2013= sum(GCP_2013, na.rm = TRUE),
          count=n())
```

Ver data

```
resultados2013
```

```
## # A tibble: 32 × 5
##    location_name      suma_GCI_2013 suma_GP_SINVCR suma_GCP_2013 count
##    <chr>                      <dbl>          <dbl>         <dbl> <int>
##  1 Aguascalientes             16.1              91         2.98    106
##  2 Baja California            25.7              75         6.34    106
##  3 Baja California Sur         2.74            101         1.58    106
##  4 Campeche                   -0.217           105         0.280   106
##  5 Chiapas                     1.22            103         1.12    106
##  6 Chihuahua                  17.9              83         5.19    106
##  7 Coahuila                   18.6              79         5.22    106
##  8 Colima                     -2.34            101         1.76    106
##  9 Distrito Federal            6.24             97         7.27    106
## 10 Durango                     8.34             93         3.26    106
## # i 22 more rows
```