

Projet d'étude de Statistiques

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0.1 Data du Projet

```
data <- read.csv("Data-projetmodIA-2324.csv")

summary(data)
```

```
##      code_epci      lib_epci      annee_inv      nox_kg
## Min.      :200006930  Length:984      Min.      :2014      Min.      : 4085
## 1st Qu.:200066342    Class :character  1st Qu.:2015      1st Qu.: 151025
## Median :200071178    Mode  :character  Median :2016      Median : 257531
## Mean   :219957739                      Mean   :2016      Mean   : 466703
## 3rd Qu.:243200433                      3rd Qu.:2018      3rd Qu.: 465286
## Max.   :248400251                      Max.   :2019      Max.   :7296028
##      so2_kg      pm10_kg      pm25_kg      co_kg
## Min.      : 91.3      Min.      : 2366      Min.      : 1971      Min.      : 28231
## 1st Qu.: 3694.6      1st Qu.: 56986      1st Qu.: 40502      1st Qu.: 482779
## Median : 6302.6      Median : 104200      Median : 65338      Median : 764707
## Mean   : 21041.6      Mean   : 142992      Mean   : 93646      Mean   : 1117926
## 3rd Qu.: 11327.3      3rd Qu.: 172210      3rd Qu.:106391      3rd Qu.: 1169215
## Max.   :713262.5      Max.   :1186604      Max.   :927205      Max.   :12302750
##      c6h6_kg      nh3_kg      ges_teqco2      ch4_t
## Min.      : 437.2      Min.      : 7408      Min.      : 2481      Min.      : 30.57
## 1st Qu.: 8497.0      1st Qu.: 83409      1st Qu.: 76282      1st Qu.: 276.97
## Median : 12599.3      Median : 216921      Median : 118249      Median : 533.78
## Mean   : 17863.6      Mean   : 263843      Mean   : 209643      Mean   : 905.64
## 3rd Qu.: 19764.0      3rd Qu.: 364883      3rd Qu.: 212410      3rd Qu.:1074.44
## Max.   :178741.5      Max.   :1202364      Max.   :3171595      Max.   :5313.16
##      co2_t      n2o_t      TypeEPCI      nomdepart
## Min.      : 865.1      Min.      : 0.952      Length:984      Length:984
## 1st Qu.: 31906.3      1st Qu.: 18.017      Class :character  Class :character
## Median : 59008.8      Median : 41.718      Mode  :character  Mode  :character
## Mean   : 138412.7      Mean   : 48.855
## 3rd Qu.: 131054.4      3rd Qu.: 65.378
## Max.   :2678898.2      Max.   :726.911
##      Ardèche      Ariège      Aude      Aveyron
```

##	Min.	:0.000000	Min.	:0.000000	Min.	:0.000000	Min.	:0.000
##	1st Qu.	:0.000000	1st Qu.	:0.000000	1st Qu.	:0.000000	1st Qu.	:0.000
##	Median	:0.000000	Median	:0.000000	Median	:0.000000	Median	:0.000
##	Mean	:0.006098	Mean	:0.04878	Mean	:0.06098	Mean	:0.122
##	3rd Qu.	:0.000000	3rd Qu.	:0.000000	3rd Qu.	:0.000000	3rd Qu.	:0.000
##	Max.	:1.000000	Max.	:1.000000	Max.	:1.000000	Max.	:1.000
##	Gard		Haute.Garonne		Gers		Hérault	
##	Min.	:0.0000	Min.	:0.0000	Min.	:0.0000	Min.	:0.0000
##	1st Qu.	:0.0000	1st Qu.	:0.0000	1st Qu.	:0.0000	1st Qu.	:0.0000
##	Median	:0.0000	Median	:0.0000	Median	:0.0000	Median	:0.0000
##	Mean	:0.1037	Mean	:0.1159	Mean	:0.1037	Mean	:0.1037
##	3rd Qu.	:0.0000	3rd Qu.	:0.0000	3rd Qu.	:0.0000	3rd Qu.	:0.0000
##	Max.	:1.0000	Max.	:1.0000	Max.	:1.0000	Max.	:1.0000
##	Landes		Lot		Lot.et.Garonne		Lozère	
##	Min.	:0.000000	Min.	:0.000000	Min.	:0.000000	Min.	:0.000000
##	1st Qu.	:0.000000	1st Qu.	:0.000000	1st Qu.	:0.000000	1st Qu.	:0.000000
##	Median	:0.000000	Median	:0.000000	Median	:0.000000	Median	:0.000000
##	Mean	:0.006098	Mean	:0.06098	Mean	:0.006098	Mean	:0.06707
##	3rd Qu.	:0.000000	3rd Qu.	:0.000000	3rd Qu.	:0.000000	3rd Qu.	:0.000000
##	Max.	:1.000000	Max.	:1.000000	Max.	:1.000000	Max.	:1.000000
##	Pyrénées.Atlantiques		Hautes.Pyrénées		Pyrénées.Orientales		Tarn	
##	Min.	:0.0000	Min.	:0.000000	Min.	:0.000000	Min.	:0.000000
##	1st Qu.	:0.0000	1st Qu.	:0.000000	1st Qu.	:0.000000	1st Qu.	:0.000000
##	Median	:0.0000	Median	:0.000000	Median	:0.000000	Median	:0.000000
##	Mean	:0.0122	Mean	:0.06098	Mean	:0.07317	Mean	:0.09756
##	3rd Qu.	:0.0000	3rd Qu.	:0.000000	3rd Qu.	:0.000000	3rd Qu.	:0.000000
##	Max.	:1.0000	Max.	:1.000000	Max.	:1.000000	Max.	:1.000000
##	Tarn.et.Garonne		Vaucluse		latit		longit	
##	Min.	:0.000000	Min.	:0.000000	Min.	:42.44	Min.	:-0.295
##	1st Qu.	:0.000000	1st Qu.	:0.000000	1st Qu.	:43.33	1st Qu.	: 1.257
##	Median	:0.000000	Median	:0.000000	Median	:43.70	Median	: 2.157
##	Mean	:0.06098	Mean	:0.006098	Mean	:43.70	Mean	: 2.159
##	3rd Qu.	:0.000000	3rd Qu.	:0.000000	3rd Qu.	:44.10	3rd Qu.	: 3.034
##	Max.	:1.000000	Max.	:1.000000	Max.	:44.88	Max.	: 4.825

““