

# Rapport

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## Chargement des packages

```
library(dplyr)
```

## Installation et chargement de la bibliothèque

```
remotes::install_github("Djayan-D/firstlibdjayan", quiet = TRUE)  
library(firstlibdjayan)
```

## Chargement des données

## Filtrage des données par commune et département

```
df_commune <- data |>  
  filter(Code.de.la.commune == params$code_commune)  
  
df_departement <- data |>  
  filter(Code.du.département == params$code_departement)
```

## Création des jeux de données pour la commune et le département

```
df_commune <- creer_commune(df_commune)
```

Classe 'commune' ajoutée au DataFrame.

```
df_departement <- creer_departement(df_departement)
```

Classe 'departement' ajoutée au DataFrame.

## Analyse des données

```
summary(df_commune)
```

```
$nom_commune  
[1] "Nantes"
```

```
$nombre_elus  
[1] 66
```

```
$distribution_ages_elus  
$distribution_ages_elus$Q0  
[1] 28.1863
```

```
$distribution_ages_elus$Q25  
[1] 43.09932
```

```
$distribution_ages_elus$Q50  
[1] 51.03151
```

```
$distribution_ages_elus$Q75  
[1] 58.61575
```

```
$distribution_ages_elus$Q100  
[1] 73
```

```
$elu_plus_age  
$elu_plus_age$nom
```

```
[1] "PROCHASSON"
```

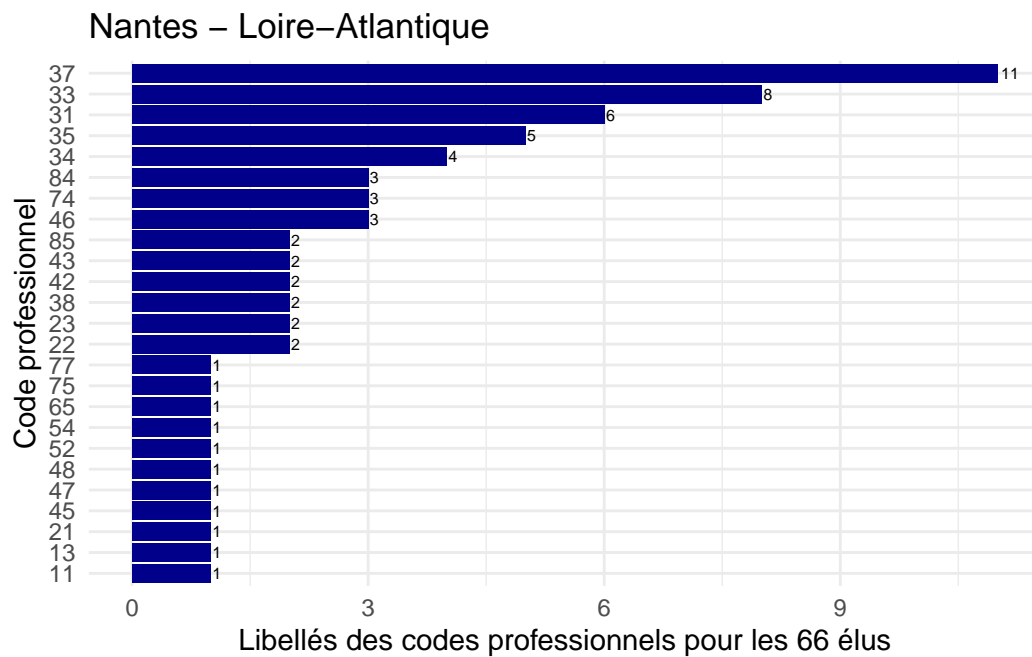
```
$elu_plus_age$prénom
```

```
[1] "François"
```

```
$elu_plus_age$age
```

```
[1] 73
```

```
plot(df_commune)
```



```
summary(df_departement)
```

```
$nom_departement
```

```
[1] "Loire-Atlantique"
```

```
$nombre_communes
```

```
[1] 207
```

```
$nombre_elus
```

```
[1] 4781
```

```
$distribution_age_elus
```

```
$distribution_age_elus$Q0  
[1] 22.9863
```

```
$distribution_age_elus$Q25  
[1] 46.67534
```

```
$distribution_age_elus$Q50  
[1] 54.07123
```

```
$distribution_age_elus$Q75  
[1] 63.87808
```

```
$distribution_age_elus$Q100  
[1] 84.61096
```

```
$elu_plus_age  
$elu_plus_age$nom  
[1] "GERARD"
```

```
$elu_plus_age$age  
[1] 84
```

```
$elu_plus_jeune  
$elu_plus_jeune$nom  
[1] "MERCERON"
```

```
$elu_plus_jeune$age  
[1] 22
```

```
$commune_plus_jeune  
$commune_plus_jeune$nom  
[1] "Ruffigné"
```

```
$commune_plus_jeune$distribution_ages  
$commune_plus_jeune$distribution_ages$Q0  
[1] 28.14521
```

```
$commune_plus_jeune$distribution_ages$Q25  
[1] 38.42466
```

```
$commune_plus_jeune$distribution_ages$Q50  
[1] 44.39452
```

```
$commune_plus_jeune$distribution_ages$Q75  
[1] 49.54932
```

```
$commune_plus_jeune$distribution_ages$Q100  
[1] 70.80548
```

```
$commune_plus_agee  
$commune_plus_agee$nom  
[1] "Les Moutiers-En-Retz"
```

```
$commune_plus_agee$distribution_ages  
$commune_plus_agee$distribution_ages$Q0  
[1] 50.81096
```

```
$commune_plus_agee$distribution_ages$Q25  
[1] 63.92877
```

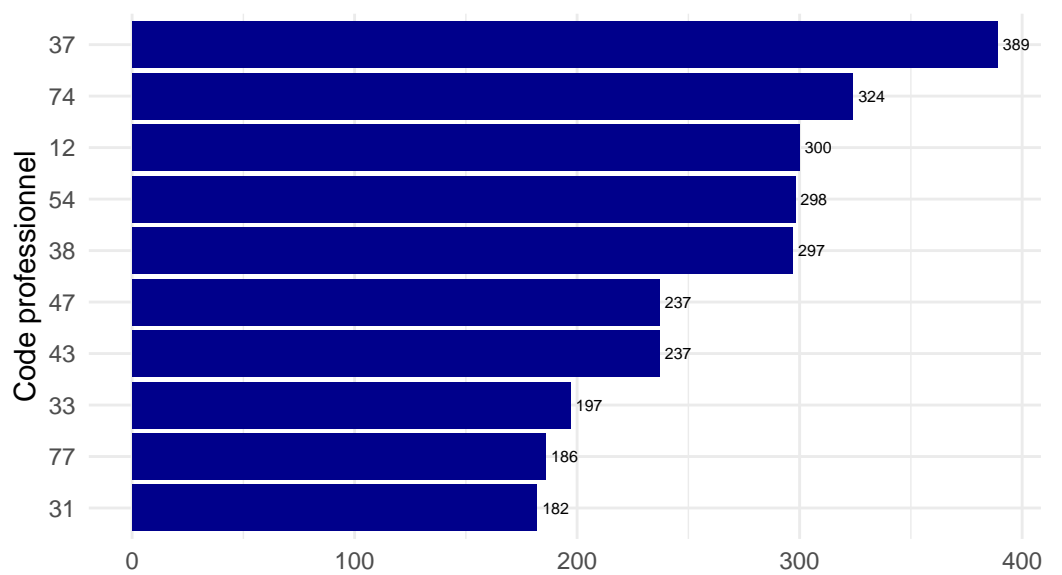
```
$commune_plus_agee$distribution_ages$Q50  
[1] 70.53699
```

```
$commune_plus_agee$distribution_ages$Q75  
[1] 74.71781
```

```
$commune_plus_agee$distribution_ages$Q100  
[1] 81.7589
```

```
plot(df_departement)
```

## Loire-Atlantique – 207 communes



Libellés des 10 codes professionnels les plus représentés pour Loire-Atlantique