

# Country essai 3

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```
# Importation des packages ####
library(tidyverse)

## -- Attaching packages ----- tidyverse 1.3.1 --

## v ggplot2 3.3.6      v purrr  0.3.4
## v tibble  3.1.6      v dplyr  1.0.9
## v tidyr   1.2.0      v stringr 1.4.0
## v readr   2.1.2      v forcats 0.5.1

## -- Conflicts ----- tidyverse_conflicts() --
## x dplyr::filter() masks stats::filter()
## x dplyr::lag()    masks stats::lag()

library(readxl)
install.packages("ggplot2")

## Warning: le package 'ggplot2' est en cours d'utilisation et ne sera pas installé

library(ggplot2)

# Importation de données ####

Country <- read_excel("Country.xlsx")
Country <- data.frame(Country, 12)
View(Country)
names(Country)

## [1] "Ville"      "Annee"      "Population" "X12"

# Sélection dans une table ####

Country$Population

## [1] 10045622 10199787 10311970 10392226 57374179 58623428 59925035 61083916
## [9] 80597764 82011073 82350671 82400996
```

```
Country$Annee
```

```
## [1] 1992 1997 2002 2007 1992 1997 2002 2007 1992 1997 2002 2007
```

```
Country$Country
```

```
## NULL
```

```
Country [-(1:3), ] #sélection des infos du tableau de la ligne 1 #à la ligne 9
```

```
##      Ville Année Population X12
## 4 Belgium 2007    10392226   12
## 5 France 1992    57374179   12
## 6 France 1997    58623428   12
## 7 France 2002    59925035   12
## 8 France 2007    61083916   12
## 9 Germany 1992    80597764   12
## 10 Germany 1997    82011073   12
## 11 Germany 2002    82350671   12
## 12 Germany 2007    82400996   12
```

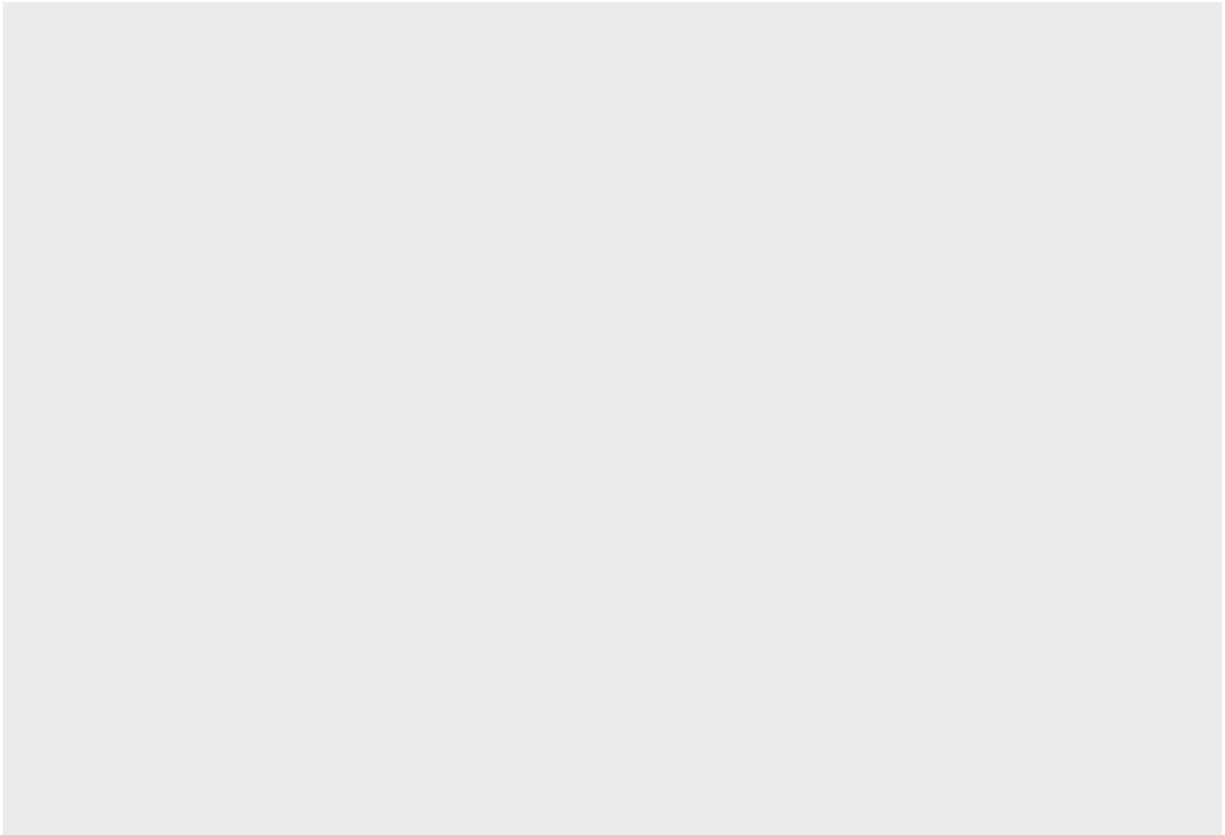
```
head(Country, 3)
```

```
##      Ville Année Population X12
## 1 Belgium 1992    10045622   12
## 2 Belgium 1997    10199787   12
## 3 Belgium 2002    10311970   12
```

```
head(Country, 12)
```

```
##      Ville Année Population X12
## 1 Belgium 1992    10045622   12
## 2 Belgium 1997    10199787   12
## 3 Belgium 2002    10311970   12
## 4 Belgium 2007    10392226   12
## 5 France 1992    57374179   12
## 6 France 1997    58623428   12
## 7 France 2002    59925035   12
## 8 France 2007    61083916   12
## 9 Germany 1992    80597764   12
## 10 Germany 1997    82011073   12
## 11 Germany 2002    82350671   12
## 12 Germany 2007    82400996   12
```

```
ggplot (data = Country)
```

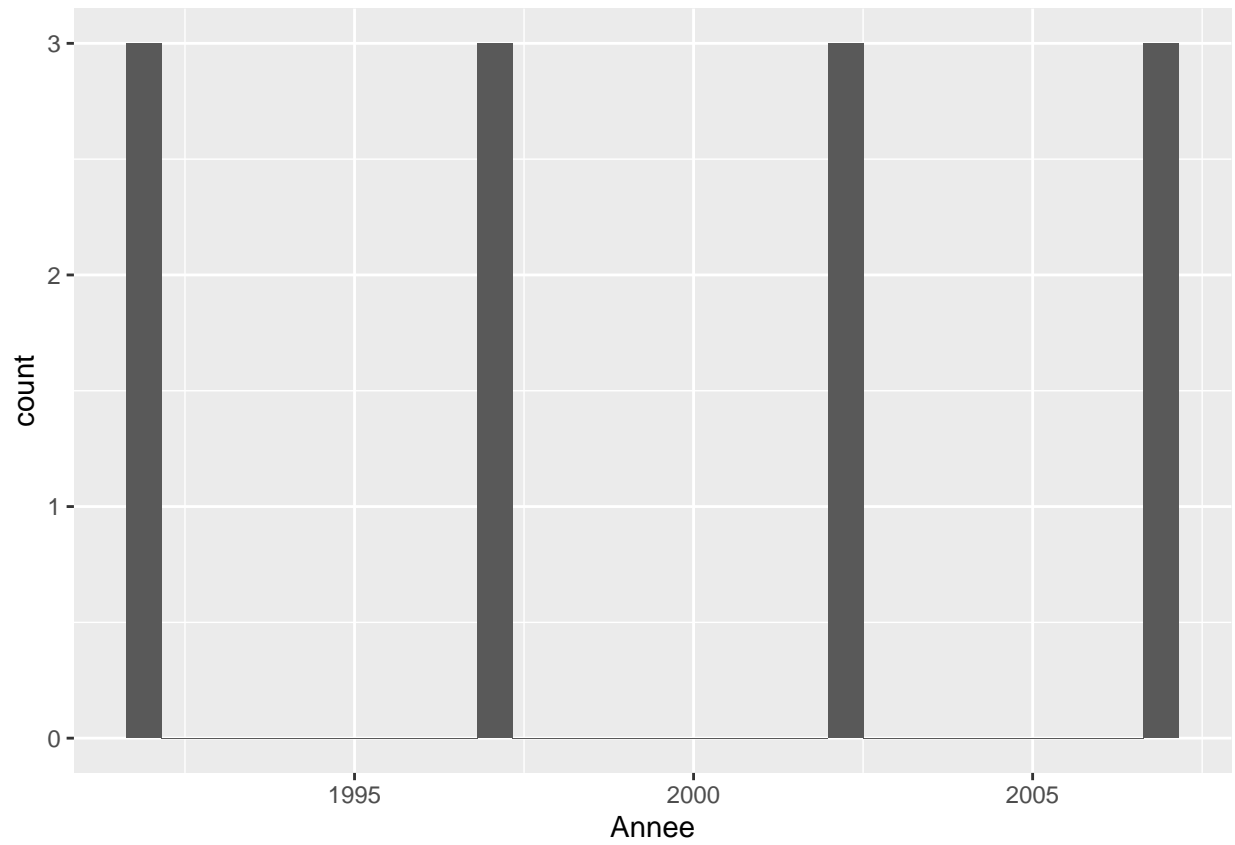


```
head(Country, 12)
```

```
##      Ville Annee Population X12
## 1 Belgium  1992   10045622   12
## 2 Belgium  1997   10199787   12
## 3 Belgium  2002   10311970   12
## 4 Belgium  2007   10392226   12
## 5  France  1992    57374179   12
## 6  France  1997    58623428   12
## 7  France  2002    59925035   12
## 8  France  2007    61083916   12
## 9 Germany  1992    80597764   12
## 10 Germany 1997    82011073   12
## 11 Germany 2002    82350671   12
## 12 Germany 2007    82400996   12
```

```
ggplot(Country) +  
  geom_histogram(aes(x=Annee))
```

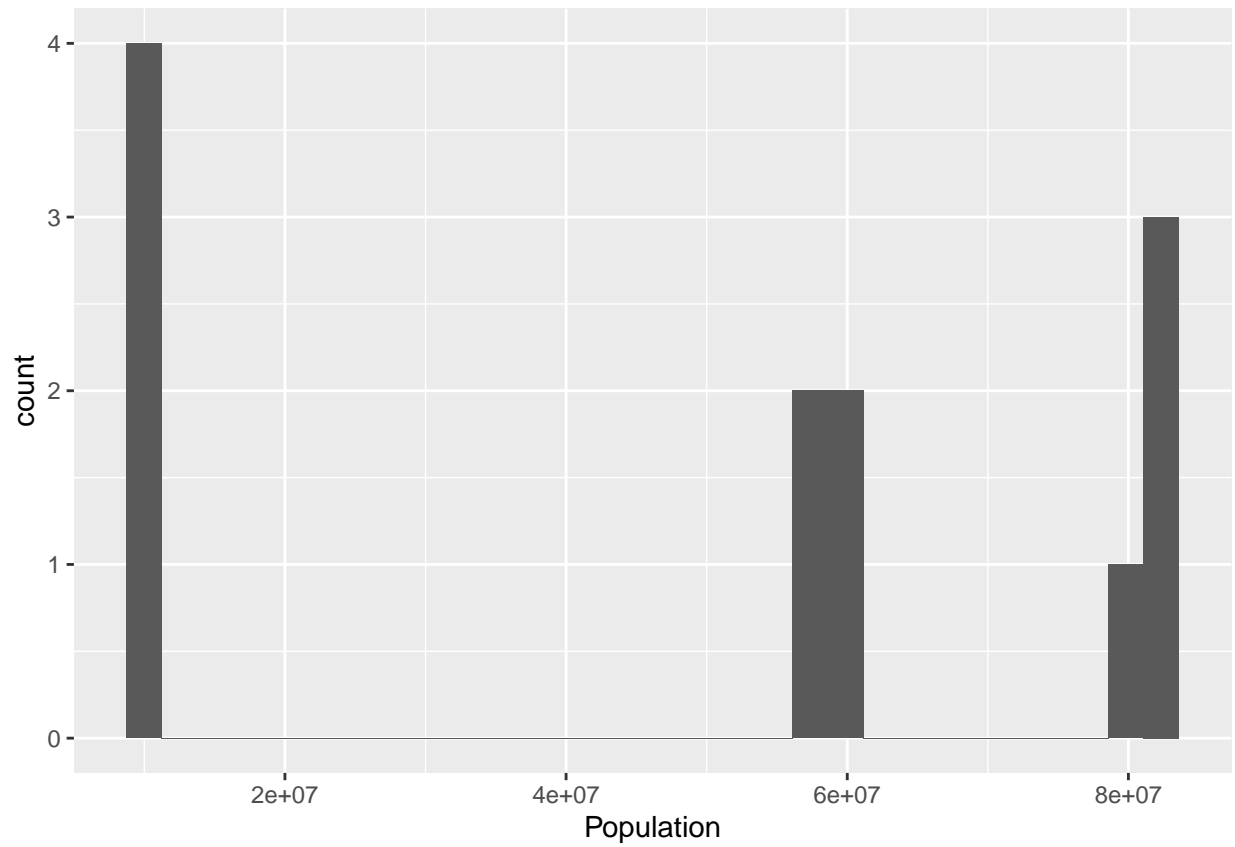
```
## 'stat_bin()' using 'bins = 30'. Pick better value with 'binwidth'.
```



```
bins = 50
```

```
ggplot(data = Country) +  
  geom_histogram(aes(x = Population))
```

```
## 'stat_bin()' using 'bins = 30'. Pick better value with 'binwidth'.
```



bins = 50

““