

# devoirSeance04

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2025-08-08

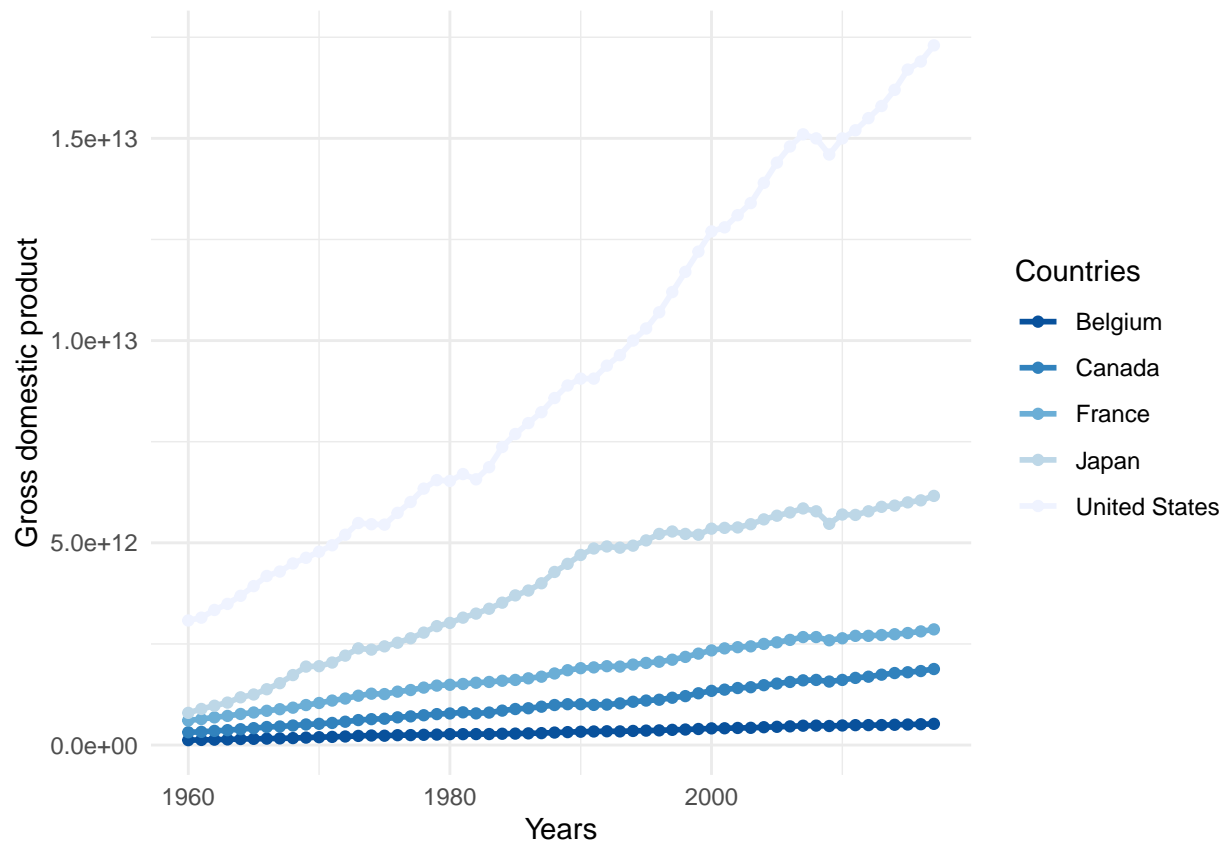
## Etape 1: importer des données

```
gdp5 <- read.csv("~/exercices/exercicesSeance4/chapter10data.csv")
```

## Etape 2: creer un graphique linéaire

```
library(ggplot2)
library(ggthemes)
ggplot(data = gdp5, aes(x = year, y = gdp, color = country)) +
  geom_line(linewidth = 1) +
  geom_point(linewidth = 1) +
  xlab("Years") +
  ylab("Gross domestic product") +
  labs(color = "Countries") +
  theme_minimal() +
  scale_color_brewer(direction = -1)
```

```
## Warning in geom_point(linewidth = 1): Ignoring unknown parameters: 'linewidth'
```

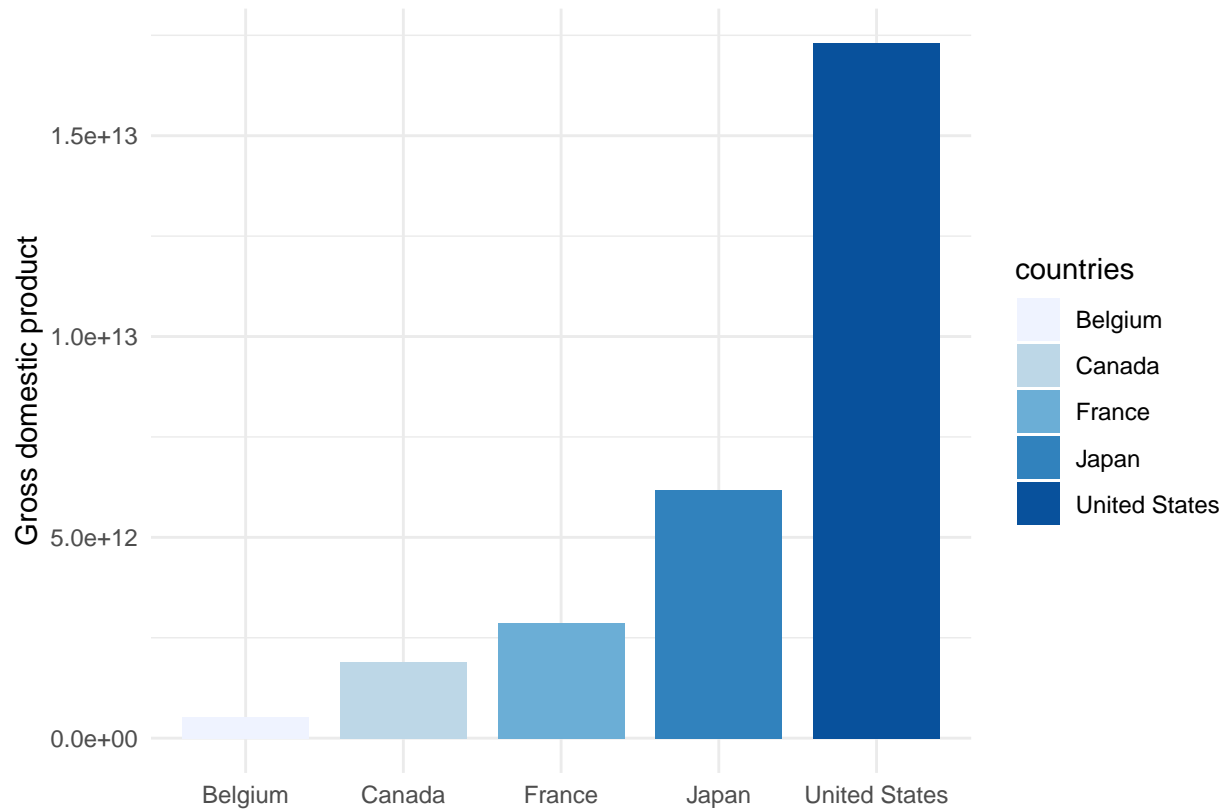


### Etape 3: Filtrer les données et ne garder que l'année 2017

```
gdp6 <- filter(gdp5, "year" == 2017)
```

### Etape 4: creer un graphique à barres

```
library(ggplot2)
library(ggthemes)
ggplot(data = gdp5, aes(x = country, y = gdp, fill= country)) +
  geom_bar(stat = "identity", width = 0.8, position = "dodge") +
  xlab("") +
  ylab("Gross domestic product") +
  labs(fill = "countries") +
  theme_minimal() +
  scale_fill_brewer(direction = 1)
```



## Etape 1: Impoter via un CSV

```
gdp <- read.csv("~/exercices/exercicesSeance4/chapter6data.csv")
```

## Etape 2: Importez via un gsheets

```
locations <- read.csv("https://docs.google.com/spreadsheets/d/1nehKEBKTQx11LZuo5ZJFKTVS0p5y1ysMPS0SX_m8")
```

## Etape 3: supprimer la colonne

```
gdp$X1 <- NULL
```

```
colnames(gdp)
```

```
## [1] "country" "X1960"  "X1961"  "X1962"  "X1963"  "X1964"  "X1965"
## [8] "X1966"  "X1967"  "X1968"  "X1969"  "X1970"  "X1971"  "X1972"
## [15] "X1973"  "X1974"  "X1975"  "X1976"  "X1977"  "X1978"  "X1979"
```

```
## [22] "X1980" "X1981" "X1982" "X1983" "X1984" "X1985" "X1986"
## [29] "X1987" "X1988" "X1989" "X1990" "X1991" "X1992" "X1993"
## [36] "X1994" "X1995" "X1996" "X1997" "X1998" "X1999" "X2000"
## [43] "X2001" "X2002" "X2003" "X2004" "X2005" "X2006" "X2007"
## [50] "X2008" "X2009" "X2010" "X2011" "X2012" "X2013" "X2014"
## [57] "X2015" "X2016" "X2017"
```

## Etape 4: Filtrer les données

```
library(dplyr)
```

```
##
```

```
## Attachement du package : 'dplyr'
```

```
## Les objets suivants sont masqués depuis 'package:stats':
```

```
##
```

```
## filter, lag
```

```
## Les objets suivants sont masqués depuis 'package:base':
```

```
##
```

```
## intersect, setdiff, setequal, union
```

```
gdp2 <- filter(gdp, country == "France" | country == "United States" | country == "Canada" | country ==
```

## Etape 5 : rallonger les données

```
library(tidyr)
```

```
gdp3 <- pivot_longer(gdp2, cols = -country, names_to = "year", values_to = "gdp")
```