Projet sur le Logiciel R

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```
## -- Attaching core tidyverse packages ----------------------- tidyverse 2.0.0 --
## v dplyr     1.1.4      v readr     2.1.5
## v forcats   1.0.0      v stringr   1.5.1
## v ggplot2   3.5.1      v tibble    3.2.1
## v lubridate 1.9.3      v tidyr     1.3.1
## v purrr     1.0.2
## -- Conflicts ------------------------------------------- tidyverse_conflicts() --
## x dplyr::filter() masks stats::filter()
## x dplyr::lag()    masks stats::lag()
## i Use the conflicted package (<http://conflicted.r-lib.org/>) to force all conflicts to become error
```

Exercice1

```
## [1] "C:/Users/user/Desktop/ISEP 3/S2/COURS DE R/Projet3"
```

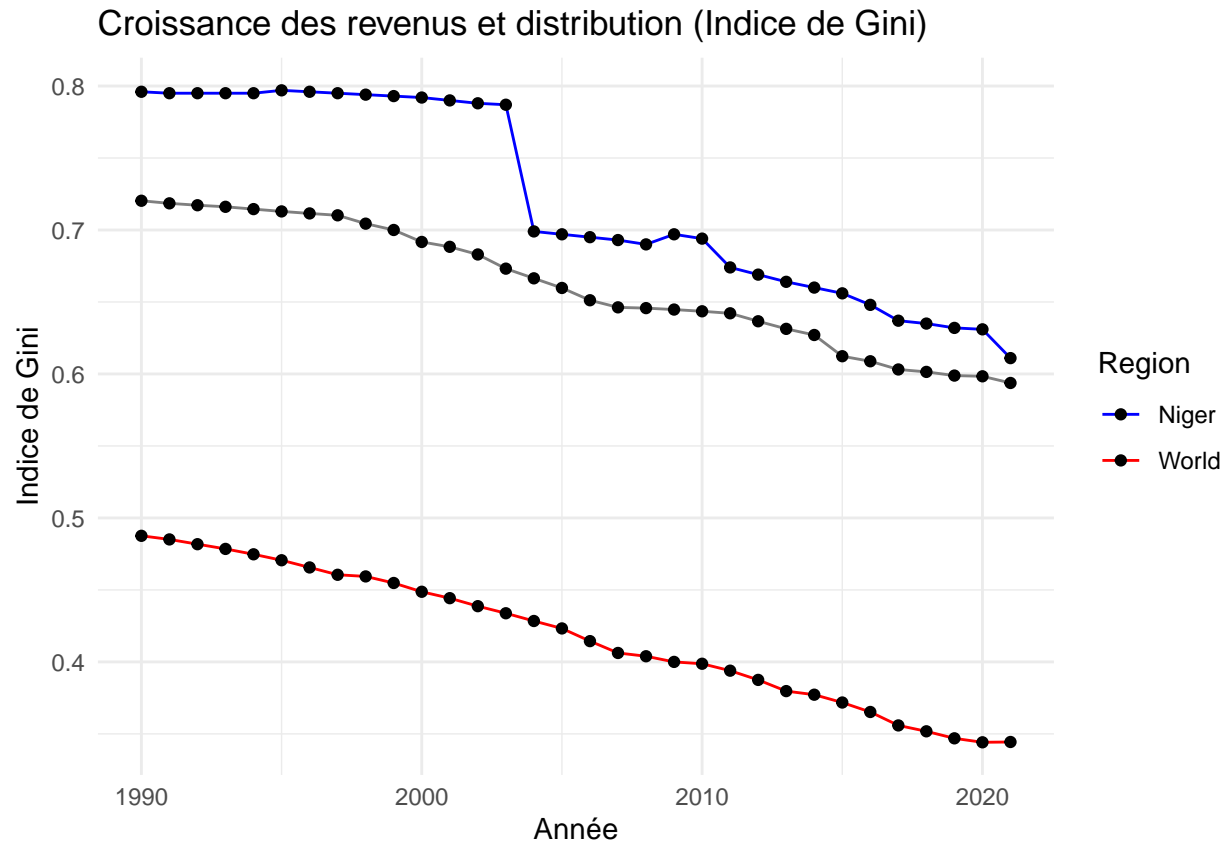## Calcul Indice de Gini

Afrique de l'OUEST

Base Niger

World

Combine of world_gii,Africa_gii,Niger_gii by row R

Graphique

```
## Warning: No shared levels found between 'names(values)' of the manual scale and the
## data's shape values.
```

Croissance des revenus et distribution (Indice de Gini)

EXERCICE 2

Croissance démographique annuelle

Afrique de l'OUEST

```
## Warning: There were 61 warnings in `dplyr::summarise()`.
## The first warning was:
## i In argument: `value_mean = mean(Value, na.rm = TRUE)`.
## i In group 1: `year = 1961`.
## Caused by warning in `mean.default()`:
## ! l'argument n'est ni numérique, ni logique : renvoi de NA
## i Run `dplyr::last_dplyr_warnings()` to see the 60 remaining warnings.
```

Ajout de variable western_africa

Base Niger

World

```
## Warning: There were 61 warnings in `dplyr::summarise()`.
## The first warning was:
## i In argument: `value_mean = mean(Value, na.rm = TRUE)`.
## i In group 1: `year = 1961`.
## Caused by warning in `mean.default()`:
## ! l'argument n'est ni numérique, ni logique : renvoi de NA
## i Run `dplyr::last_dplyr_warnings()` to see the 60 remaining warnings.
```

Combine of world_gi,Africa_gi,Niger_gi by row R

Graphique

```
## Warning: Using 'size' aesthetic for lines was deprecated in ggplot2 3.4.0.
## i Please use 'linewidth' instead.
## This warning is displayed once every 8 hours.
## Call 'lifecycle::last_lifecycle_warnings()' to see where this warning was
## generated.
```

```
## Warning: The 'size' argument of 'element_line()' is deprecated as of ggplot2 3.4.0.
## i Please use the 'linewidth' argument instead.
## This warning is displayed once every 8 hours.
## Call 'lifecycle::last_lifecycle_warnings()' to see where this warning was
## generated.
```
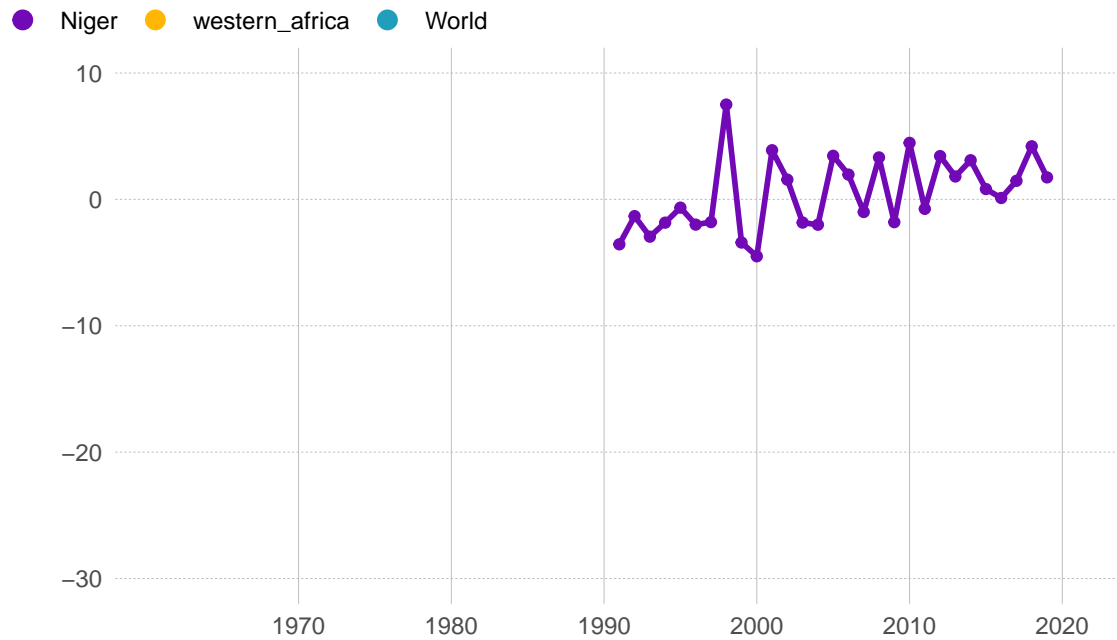
```
## Warning: A numeric 'legend.position' argument in 'theme()' was deprecated in ggplot2
## 3.5.0.
## i Please use the 'legend.position.inside' argument of 'theme()' instead.
## This warning is displayed once every 8 hours.
## Call 'lifecycle::last_lifecycle_warnings()' to see where this warning was
## generated.
```

```
## Warning: 'show.legend' must be a logical vector.
```

```
## Warning: Removed 122 rows containing missing values or values outside the scale range
## ('geom_line()').
```

```
## Warning: Removed 122 rows containing missing values or values outside the scale range
## ('geom_point()').
```

Figure : Income growth and distribution (Gini Index)

Source: World Bank

EXERCICE 3

Croissance démographique annuelle

Afrique de l'OUEST

Ajout de variable western_africa

Base Niger

World

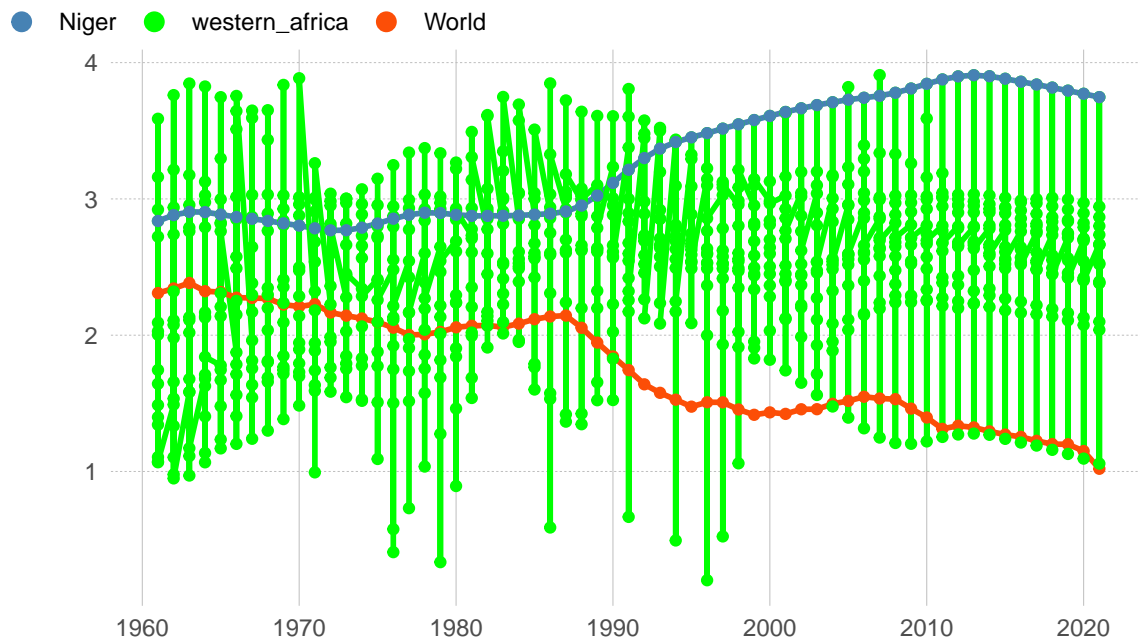**Combine of world_gi,Africa_gi,Niger_gi by row R**

Graphique

```
## Warning: 'show.legend' must be a logical vector.
```

```
## Warning: Removed 52 rows containing missing values or values outside the scale range
## ('geom_point()').
```

Figure: Annual population growth (%)

Source: World Bank

```
## Warning: Removed 976 rows containing missing values or values outside the scale range
## ('geom_point()').
```

Figure: Annual population growth (%)