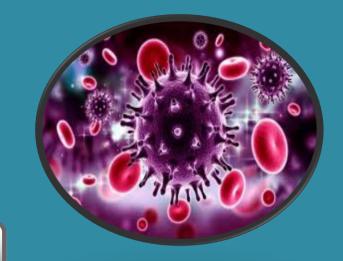
# HIV analysis



Study of HIV epidemiology indicators and treatments for children and adolescents.

#### **Introduction**

HIV (human immunodeficiency virus) is a virus that attacks cells that help the body fight infection, making a person more vulnerable to other infections and diseases.

We wanted to find out how widely this virus has spread and how effective has treatment been in the years 1990-2019.

#### **Datasets**

**Dataset 1** (11290 KB): It has information about HIV depending on the continent, sex, age(0-19) and the year (1990-2019).

**Dataset 2** (177 KB): It contains the coverage of antiretroviral treatment (ART) among children(0-14 years) with HIV.

### **Discoveries**

Only global values are shown. (Specific country graphs can be seen in the repository)

## 

ANNUAL NEW INFECTIONS CAUSED BY HIV: Males' values are a bit greater than females 'ones.

# **Objectives**

The driving vision of our project was to:

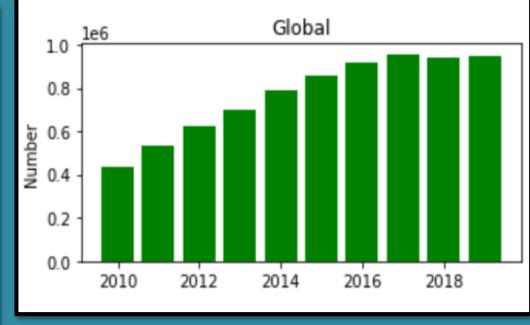
- Analyse how the number of children with HIV changes depending on the continent, sex, age(0-19) and the year.
- Analyse the antiretroviral treatments that have been conducted depending on different features

#### **Conclusions**

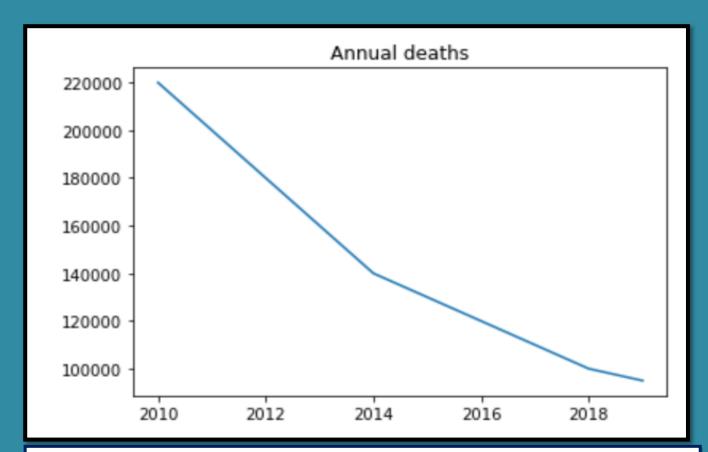
In the course of the project, we succeeded in:

- Cleaning the data (more difficult task in our project).
- Plotting.
- Converting values to integers.
- We managed to achieve our objectives and make good conclusions depending on sex, country and years.

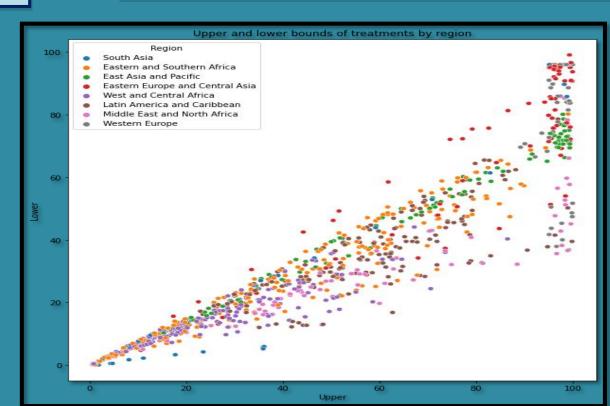
Moreover, we found out that we need to have a clear understanding of what kind of data we want to analyze to avoid weird graphs.



**NUMBER OF TREATMENTS COVERED:** Increasing with the years.



**ANNUAL DEATHS CAUSED BY HIV:** Fortunately this number has decreased over the years. In 2010, there were 220000 children deaths and in 2019 it decreased to 95000.



**PERCENTAGE OF TREATMENTS COVERED:** Lowestvalues can be seen in the case of South Asia, while people in Eastern Europe and Central Asia have higher values.



Original datasets: https://data.unicef.org/resources/dataset/hiv-aids-statistical-Project repository: https://github.com/Yaiza0706/DataScienceProject