IT'S (NOT) JUST A PHASE

PROJECT

OPEN
OPEN

USING APPLIED DATA ANALYSIS TO STUDY THE LGBT+ COMMUNITY RIGHTS ALL OVER THE WORLD.

This project aims to observe the condition of LGBT+ rights from three different perspectives:

- The evolution of some rights through time
- The current state of some rights
- The correlation between LGBT+ rights and Political regime

QUEER DATASET SOURCES

Our sources of data are:

- Kristopher Velasco (2020) – processed by Our World in Data
- Bastian Herre, Esteban Ortiz-Ospina and Max Roser (2013) - “Democracy” Published online at OurWorldInData.org. Retrieved from: 'https://ourworldindata.org/democracy'

THE DIACHRONIC DATA.

The first data uses **Velasco index**, a value between 0 and 1
The **Lgbt rights index** is calcuclated between .5 and 13.

The first group of data stores data from 1991 to 2019. They concern:

- civil unions
- constitutional protection
- hate crime protection
- marriage for same sex parters and its ban
- lgbt rights index

THE DIACHRONIC DATA.

Analysis performed

1. Mean of Indicators Worldwide by Year
2. Mean of Indicators Per Country by Year
3. Fulfillment Occurrence
4. Frequency of one Range of values.

SYNCRONIC DATA (EQUALDEX)

- **LGBT discrimination**: 4 variables (Illegal, Illegal in some contexts, Varies by region, No protections)
- **Same-sex adoption**: 6 variables (Legal, Married couples only, Step-child adoption only, Single only, Ambiguous, Illegal)
- **Same-sex marriage**: 9 variables (Legal, Civil union or other partnership, Foreign same-sex marriages recognized only, Unregistered cohabitation, Varies by region, Unrecognized, Unrecognized, same-sex marriage and civil unions banned, Not legal)

SYNCRONIC DATA (EQUALDEX)

Analysis performed

- **Categorical Distribution:**
  - Explore the number of country adopting a specific behaviour.
  - Percentual representation of these data

WORLD POLITICAL REGIME

Data from 1789 to 2022. 4 variables:

- Closed autocracy
- electoral autocracy
- electoral democracy
- liberal democracy

COMBINED DATA.

We combined different datasets to observe correlations between phenomena:

- The position towards **same-sex unions** and the *political regime* of a country
- The correlation between the *political regime* and the **LGBTright index**

VISUALIZATION WITH DASH

Dash is a Python framework for building analytical web applications.

- **Interactivity:** interact with graphs dynamically
- **Ease of Use:** interactive visualizations using familiar Python libraries like Plotly and Plotly Express; wide range of chart types

For our project:

- visualization of the *Mean of Indicators Worldwide by Year* (diachronic data) using a histogram chart with radio buttons

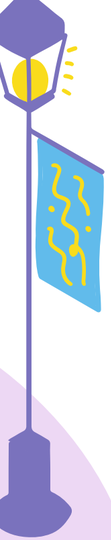
VISUALIZATION WITH FOLIUM

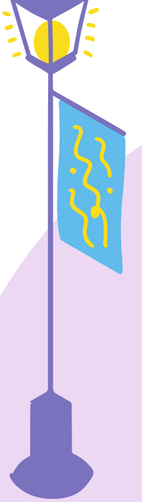
Folium is a Python library that enables the creation of interactive maps directly from Python code.

- **Interactive Maps:** features such as zooming, panning, and hovering
- **Customization:** extensive customization options for maps, markers, popups, and overlays
- **Geospatial Data Integration:** integration with geospatial data formats such as GeoJSON
- **Integration with Pandas:** integration with Pandas DataFrames, allowing direct visualization of data stored in DataFrame objects on interactive maps

For our project:

- **Choropleth Maps**: visualization of statistical data aggregated by regions using color scales; in our case, we represented the *Mean of Indicators Per Country by Year* (diachronic data)





RESULTS

- the conditions world wide are overall getting better
- there are some countries where conditions are getting worse
- There is a correlation beween the democracy level and openness towards LGBT rights.

DON`T BE A DRAG JUST BE A QUEER.

Continue to create safe spaces for the LGBT+ community.