

## Happiness Dataset

**Dataset** - <https://www.kaggle.com/datasets/unsdsn/world-happiness>

- 5 years of data, look into what each of the columns mean and explain that in the graphs

### Research questions

1. What is the happiness report?
2. Correlation score between happiness/the rest of the consistent columns
3. What is the happiest country each year?

### Things to display (what do you want to see when you hover over the map, what do you want to see when you)

1. Country and their happiness rank
  - a. Add another layer to map where you color code GDP per Capita over the countries
    - i. ex ( countries with GDP over 1, color code it blue, countries with GDP .75-1, green) ← the number ranges are suggestions, you guys should decide how detailed you want to go with the ranges
2. Graphs/Charts
3. Changes over time
  - a. Focus on the changes between the top 10 happiest countries and track their stats
  - b. Focus on the changes between the top 10 unhappiest countries and track their stats
    - i. See which columns are the same across all of the years and you can use the columns that have been consistent to track the progression(or decline) of a country's happiness
    - ii. Also maybe dive a little more into why they are happy/unhappy

### Some concerns with the data

- 2018 data column was originally named "Country or region", make sure that it is all countries since we are joining all of the datasets on that column
- why did we lose countries as time goes on

### Steps

1. Load the dataset into Jupyter notebook
  - a. Do any data manipulations
    - i. Read in the 5 years
    - ii. Join the datasets on = country

1. Before joining rename all of the yearly columns to 2015  
"happiness rank" for all columns
  - b. Export it as csv
2. Load the csv into PgAdmin
  - a. Create the schemas(making sure ints are ints and decimals are floats) and load in the table data
3. Create an app.py file in vs code
  - a. Connects postgresSQL to your .py file
  - b. Create a flask connection between dataset and different .html pages
4. Create your .js, .css, .html files in javascript with your diagrams and maps using the libraries you know and one library that has not been used in class