

# Visual Data Science

Lab Part 2

Gent Rexha (11832486)

# Introduction

- Dataset: COVID-19
- Dataset sources:
  - COVID-19 Data Repository by the Center for Systems Science and Engineering (CSSE) at Johns Hopkins University
  - [ourworldindata.org/coronavirus](https://ourworldindata.org/coronavirus) - Data on COVID-19 (coronavirus) confirmed cases, deaths, and tests
- Preprocessing - only merging the data from both sources through iso3 country codes.

# Persona

- People who want to inform themselves on the state of corona in a country/region
- Age : Any
- Education : Any
- Occupation: Any
- Hobby: NA

# Persona Example



## Personal Background:

- Age : 30
- Education: Associate and/or bachelor
- Status: Single
- Country: United States

## Business Background:

- Has Sales and Related Occupations Background
- Internet business in promoting online items

## Lifestyle:

- Manages internet business online shoppings
- Has a nice salary

## Challenges:

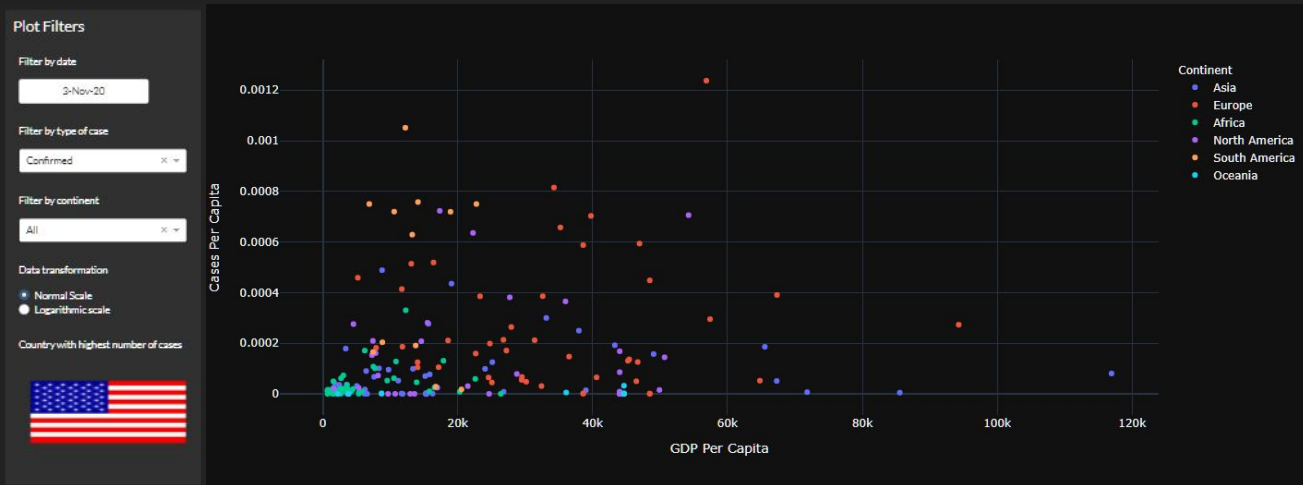
- Wants to continue with life normally
- Wants to meet his friends again
- Hasn't cut his hair in 4 months

# The Dashboard

- Communication:
  - Looking up COVID-19 Numbers on a Country/Region
  - Dashboard can be used by anyone
  - Dashboard is interactive
- The dashboard was created using python framework Dash
  - Easy to learn and use
  - Flexible
  - Open source
  - Created and maintained by: Plotly

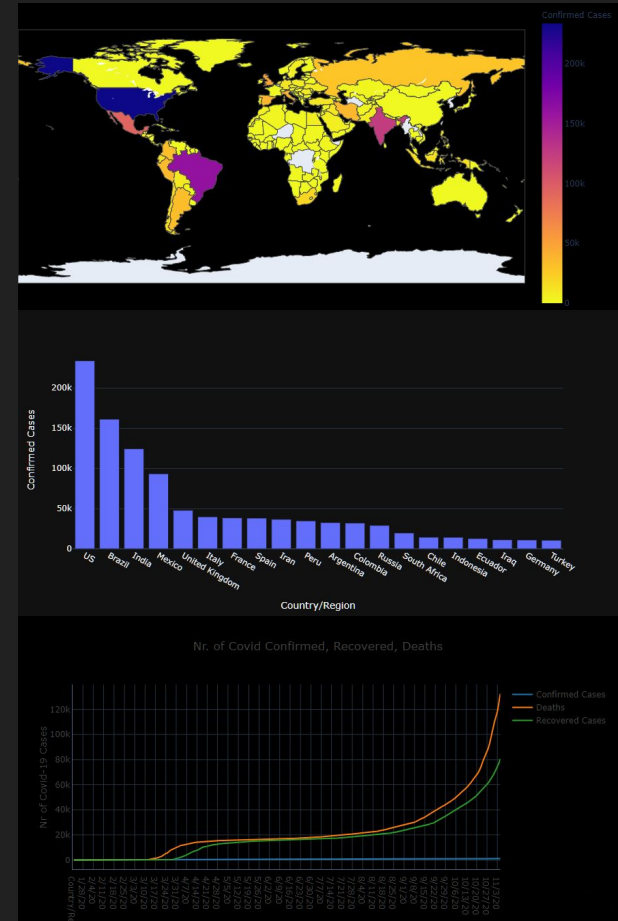
# Tasks

- Based on date, type of case, continent, data transformation:
  - Find country with highest cases/gdp per capita,
  - Find out if this relationship changed over time



# Tasks 2

- Also based on previous filters find out:
  - Most cases in region/continent,
  - historic data about country,
  - top 20 countries with most cases, and
  - see choropleth map of countries with most confirmed cases



Q&A