

# Team PJT – Outline (Team RAHM)

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## 1. Project Title

- What Factors Make Happy or Miserable Countries?

## 2. Team Members

- Paul Dean, Soobin Hwang, Mark, Seunghwa Jun

## 3. Project Outline

- Given 'The World Happiness Report 2019' and country rankings, This project tries to find what factors affect more to the level of happiness.
- First, it delves into the yearly changes of the country happiness rankings, analyzes them, and visualizes the results.
  - 'The World Happiness Report' ranks 156 countries based entirely on the survey, and provides the ranks of 6 factors to help explain life evaluations: GDP, Social Supporting, Life Expectancy, Freedom, Generosity, and Corruption Level.
  - The project analyzes the datasets from 2015 to 2019, and visualizes the results with the geographical heatmap, ranking change line graph, etc.



- Second, it expands the horizon and tries to find more factors and related datasets that can affect the level of happiness of a country, analyzes them, and visualizes the results.
  - Possible datasets include: Disposable Income, Weather, Air Pollution, Education, Income Inequality, Suicide Rate, Housing Affordability, etc.
  - Scatter plots and geographical heatmap layers for each factors will be drawn.

## 4. Research Questions to Answer

### [ Part I – 'The World Happiness Report' Analysis ]

- What factors affect more to the level of happiness?
- How do the level of happiness change during 2015 – 2019 and Why?

### [ Part II – 'The World Happiness Report' Analysis ]

- What factors affect more to the level of happiness?
- How do the level of happiness change during 2015 – 2019 and Why?

## 5. Datasets to Be Used

- The World Happiness Report 2019, 2018, 2017, 2016, 2015 (csv files)
- Disposable Income : OECD
- Weather: OpenWeatherMapy
- Air Pollution
- Education
- Income Inequality
- Suicide Rate
- Housing Affordability

## 6. Rough Breakdown of Tasks

- Collect, merge, and clean all the required data.
- Analyze the data.
- Do a visualization of analyzed data.