**Title:**

Happy Countries Analysis

**Team members:**

* Rye Capati
* Sandra Teh
* Cicily George
* Bimal Prabha

**Description:**

Analysing the happiness index of the world from the period 2015-2020.

**Data clean-up:**

1. Merging data to 2015 to 2020
2. Check for duplication
3. Check for invalid value
4. Make sure the data frame is consistent for all the data set.
5. Make sure no rows accidentally deleted

**Question to Answer: (To be discussed)**

***Summary***

1. The top 10 and bottom 10
2. World Happiness Analysis

* Freedom to make life choices
* GDP per capita
* Generosity
* Health Life expectancy
* Perceptions of corruption
* Family/social support
* Dystopia Residual

***Analysis:***

1. What is the correlation of country happiness and 7 factors?
2. What is determining factor look like comparing to bottom 10?
3. Do the countries in top 10 and bottom 10 stay consistent over the year?
4. What are the countries that making greatest changes?
5. What are the counties did not make any changes?
6. Can we do a prediction in year 2020?
7. Which region has the happiest countries?

***Conclusion:***

***To be discussed after the analysis***

**Datasets to be used:**

Data source: <https://www.kaggle.com/mathurinache/world-happiness-report?select=2020.csv>

Data source: Gmap – geography of the region and country

**To Do List –**

1. Team to do the data clean-up together
2. Team try to produce the result via a BI tool
3. Team will try to answer the question using the Jupyter notebook
4. Team to check the result Jupyter notebook and BI tool.
5. Team to discuss the presentation
6. Team to discuss the split the presentation

**To be added when we have time:**

• What are the contributions of 6 factors of Happiness score?• Which are the top 10 happy countries• Which are the countries making greatest positive changes• Which are the countries making greatest negative changes• How Covid19 affected happiness of each top 10 countrieso Which are the major factors (among 6) affected in 2020(Freedom, GDP,..)• Compared to other top countries, in which factors Australia is behind.• What are the other factors affecting happiness of the countries?o Environmental factors: Air quality, water resources, weather and daylight, Green spaces(parks)o Natural calamitieso War and Peace • Comparing the happiness score with suicide rates, mental health and other factors. Are people in the happy countries really happy?

Does a country need to be rich to be considered a happy country?  
Does a happy country have a good Government standard/structure?

What makes a happy country?