# grinning face with big eyes Project 1

## Team Members:

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# Project 1 - Happiness Explained: An Exploration of Happiness Scores by Country

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## OVERVIEW/OUTLINE

Our main objective is to analyze happiness scores in 2019 in comparison to 2020. Specifically, we are interested in understanding what might explain variations in happiness scores based on measures included in a Gallup world survey. We will explore which measures correlate most highly with higher happiness scores. We will also explore the effects of the pandemic on overall happiness scores.

## RESEARCH QUESTIONS:

1. Which **countries** had the lowest happiness score? highest happiness score? and greatest change from 2019?
   1. Of these countries which were most impacted by the pandemic in 2020?
2. Which **continent** had the lowest happiness score? highest happiness score? and greatest change from 2019?
3. What are the outliers by country for social support, healthy life expectancy, generosity, freedom to make life choices, GDP per capita, and perception of corruption?
4. Which of these measures (i.e., social support, healthy life expectancy, generosity, freedom to make life choices, GDP per capita, and perception of corruption) are most highly correlated with the higher happiness scores?

## DATASET(S):

<https://worldhappiness.report/ed/2019/happiness-and-community-an-overview/>

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

## TASK BREAKDOWN:

1. Set up Github Repository:  [@Nathan B](/ep/profile/1gg9uA1iUgdDmqkTo2qowQqWT7wMSZJZoPxxwFRRiUf0Ukt4MdNp)
2. Create API Key: @doc
3. Setting up Jupyter Notebooks: [@Teshanee W](/ep/profile/iX86Va0dCNNJDjPG9iZ953VDjTf0FFg0jb9yyjm8hnVoOrfQoI)
4. Retrieve and Review Data: @doc
5. Create Dataframes: [@Arlette V](/ep/profile/1gg9uA1iUgdDmqkTo2qowQgWD9hV6RIdzpnKRBYKQWSy8yS0aNfE) [@Nathan B](/ep/profile/1gg9uA1iUgdDmqkTo2qowQqWT7wMSZJZoPxxwFRRiUf0Ukt4MdNp)
6. Clean Data Appropriately: Arlette & Nathan
7. General Summary Stats: [@Teshanee W](/ep/profile/iX86Va0dCNNJDjPG9iZ953VDjTf0FFg0jb9yyjm8hnVoOrfQoI) & Niru
8. Dive into Core Questions (1 and 2): Niru & Teshanee
9. Dive into Secondary Questions (1 and 2): Niru & Teshanee
10. Plot and summary statistics of core questions: Niru & Teshanee
11. Plot and summary statistics of secondary questions: Niru & Teshanee
12. Assure data answers our questions:
13. Create slides for presentation:  @doc
14. Present: Arlette