

Skynet Project Proposal

Project Title: Weather and Happiness: Are They Related?

Skynet Team Members:

- AJ Paine
- Dylan Robb
- Jeanna Samuels
- Amanda Troxel
- Steven Zych

Description:

Examine relationships between weather and happiness by looking at temperatures and precipitation trends across the globe in contrast with the World Happiness Report.

Research Questions:

1. Is there a correlation between average temperature and happiness?
2. Is there a correlation between average annual rainfall and happiness?
3. Can we predict how happy a place (Colorado/Denver) will be based on weather?

Potential Datasets:

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

<https://climateknowledgeportal.worldbank.org/download-data>

Tasks:

- Exploration & merge data sets - Jeanna
 - Annual happiness data
 - Temperature and rainfall data sets
- Clean data - AJ
 - Remove missing data
 - Filter to applicable years
 - Proper formatting
 - Groupby country/year?
- Statistical Analysis & Plots - Dylan & Amanda
 - Scatter plots
 - Correlation Coefficient/ R^2
 - Linear Regression Model
 - Maps?
- Presentation - Steven