-only continental us, define intemperate

Topic Proposal

A comparison of median rates of adult obesity against state climate [atmospheric behavior over relatively long periods of time] in U.S. states and U.S. territories Guam, Puerto Rico, and U.S. Virgin Islands.

Proposed Question

Do states and territories with intemperate climates display higher median rates of adult obesity?

Null Hypothesis

States and territories with intemperate climates do not show any statistical correlation with higher median rates of obesity.

Alternative Hypothesis

= greater than, less than, not equal to null hypothesis

Data Sources and Types

Centers for Disease Control and Prevention’s “*Nutrition, Physical Activity, and Obesity: Data, Trends and Maps*” CSV

* This dataset provides rates of adult obesity in U.S. states and U.S. territories Guam, Puerto Rico, and U.S. Virgin Islands. This data will be used as the base for our statistical analysis.

National Centers for Environmental Information’s National Oceanic and Atmospheric Administration Map

* <https://www.ncdc.noaa.gov/monitoring-references/maps/us-climate-regions.php>

Data Limitations

Data:

* Data exploration and cleanup (Jupyter Notebook)
* Describe analytical process (Jupyter Notebook)

Analysis:

* Identify core message or hypothesis
* Identify foundational questions
* Explain research motivations

Final Presentation:

* Storytelling with data – highlight conflict and resolution in data
* 8 – 10 minutes
* Content
  + Hypothesis, questions
  + Data, analysis
  + Summarize conclusions
    - Numerical summary, what data did analysis yield
    - Visualization summary, plots of final analysis data
  + Discuss finding implications
    - Open-ended discussion about what findings “mean”