**Project Title:**

Opioid utilization rates and substance use disorder trends

**Team Members:**

* Mary
* Billy
* Kameron
* **Sandra**

**Project Description/Outline:**

* Health:
  + Opioid usage
* Analysis of opioid prescribing data, substance abuse national survey data, & population data

**Research Questions to Answer:**

* Is there an association between usage, risk, and disorder rates to total population?
  + Is there a state correlation?
  + Which state has the highest amount of heroin abuse? Which has the lowest?
  + What are the top 5 states with the highest numbers of prescriptions?
* Is there an association between opioid prescribing rates and substance use disorder?
  + Is there an association between heroin usage and substance use disorder?
  + Is there an association between perceived risk of using opioids and substance use disorder?

~~• Is there an age correlation?~~

**Datasets to Be Used:**

* [CMS State Drug Utilization Data](https://www.medicaid.gov/medicaid/prescription-drugs/state-drug-utilization-data/index.html)
* [2019-2020 National Survey on Drug Use and Health: Model-Based Prevalence Estimates (50 States and the District of Columbia)](https://www.samhsa.gov/data/report/2018-2019-nsduh-state-prevalence-estimates)
* [American Community Survey - Demographic and Housing Estimates](https://data.census.gov/table?q=DP05)

**Rough Breakdown of Tasks:**

* Look for opioid use disorder trends among different populations related to opioid prescribing rates
  + Merge & clean data
  + Analyze data
  + Create images & graphs

**Notes:**

* EDA: Exploratory Data Analysis