**Group #4 Project Proposal: Team Griffinpuff**

Ben Snyder, Sean Atkins, Ali Rizvi, Val Lobas

**Project Background**

In the U.S., a food desert consists of a low-income census tract residing at least 0.5 miles (0.80 km) in urban areas (10 miles (16 km) in rural areas) or 1 mile (1.6 km) away in urban areas (20 miles in rural areas) from a large grocery store.

Team Griffinpuff seeks to determine if there are areas in Ohio where there is a lack of access to grocery stores. Grocery stores will be defined as large grocery chains (i.e. Giant Eagle, Kroger, etc.), local grocery stores (i.e. Marc’s, Heinen’s), wholesale clubs, Walmart, and Target.

**What questions are we asking (the project)?**

1. Are there any food deserts in Ohio?
2. Is there a correlation between population and food deserts?
3. Is there a correlation between average income/poverty rate and food desert location?
4. Is there a correlation between Walmart location and lack of other grocery store options?
5. Is there a correlation between population density and income and food deserts?

**What data is required?**

Grocery store location, population data, population density, income data

**Where and how are we going to get the data?**

Google Maps API and Census Data

**How are we initially planning to analyze the data?**

Count of stores, geographic location (latitude, longitude), scatter plots, heat map

**Do we have a high-level idea of how to accomplish the task of answering the question we are asking?**

Yes, except determining distance between random grocery stores

**How the team plans to split up the analysis**

For Sprint 1, we’ll split up the pulling and cleaning up of datasets