**Group project Proposal**

***Project Overview and Objective***

**The idea we chose**

* We decided to find a band and their tour dates to then map out and compare the distance
* We will then create layers of each tour from the four different years with a side bar menu to click on for each tour.

**Extracting our data**

* Using d3 to extract and read all of our csv files for the tour dates

**Transforming Our Data (d3)**

* Add tile layer of a map for the background
* L.tileLayer("https://api.mapbox.com/styles/v1/{id}/tiles/{z}/{x}/{y}?access\_token={accessToken}", {
* Create city markers on the map using the array function and the .sortBy function to sort the cities from the tour dates in order to make markers for only the cities from Loadash <https://lodash.com/docs/4.17.15#sortBy>
* Use this function to create long/lat coordinates for each city we map <https://amaral.northwestern.edu/blog/getting-long-lat-list-cities>
* Next create a side menu with the four different year options to click on.

**Requirements**

* Another JS library lodash <https://lodash.com/docs/4.17.15/>
* <https://lodash.com/docs/4.17.15#sortBy>

**Data Sources**

* We found our band tour data on <https://www.concertarchives.org/bands/pixies?page=3#concert-table> and then placed our city and year data from the website into an excel file to then use.
* We found our gas mileage data from <https://data.bls.gov/pdq/SurveyOutputServlet>
* We found our car model and mpg data on <https://www.fueleconomy.gov/feg/PowerSearch.do?action=noform&path=7&year=2010&make=Toyota&model=Camry&srchtyp=ymm>