# CSH4W3 Data Visualization Text Visualization

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KK: Modeling and Computational Experiment (MCE)

# Overview

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## Introduction

- The best way to understand any data is by visualizing it.
- if I give you a table load of data and Charts then the latter is more easier way to get insight from the data.
- Visualization is a critical part of any data analysis project and makes it easy to understand the significance of data in a visual way by looking at visuals and quickly helps to identify the areas which needs attention and helps to build a strategy for further Data Science activity.

#### Introduction

Text Visualization has always been a challenging task as it needs to be converted into numerical features first which computers can understand, which is tricky because text is discrete

```
berry fruit palate offernose palate medium bodied greet in the palate offernose palate medium bodied greet in the palate of the palate palate
```

## What is Word Cloud

**Word Cloud** is a data visualization technique used for representing text data in which the size of each word indicates its frequency or importance. Significant textual data points can be highlighted using a word cloud. Word clouds are widely used for analyzing data from social network websites.

For generating word cloud in Python, modules needed are – matplotlib, pandas and wordcloud.

# **Examples**

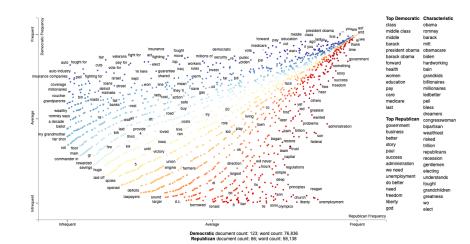




#### What is scattertext?

**Scattertext** is a Python package that lets you compare and contrast how words and phrases are used differently in two types of documents, producing interactive, Javascript-based visualizations.

# example



# Programming preparation

Please download or copy to your gdrive the following file Python http://bit.ly/20FBAwv

and open with your Google Colabs https://colab.research.google.com

# The End