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Interactive Weather and Precipitation Mapper

Weather and climate data is constantly under use by many different enterprises for a multitude of strategic uses, from disaster prediction to construction resource allocation and more. Our model allows a user to value several metrics at once: average rainfall, average temperatures, and relational census data.

The structure of our particular application will be informed by the following diagram.

1. Data acquisition via OpenWeather API and Census API
   1. These will both be scraped for pertinent information
2. The data will then be organized within Jupyter Notebook using Pandas data frames to create the CSV necessary to clean and hold our data for the next step
3. MongoDB will be our database manipulation platform where we will then format the data
4. Using HTML/JavaScript, we will translate the data into a visual format for consumption using Leaflet and/or D3 to execute a dynamic, interactive map