Where is the "best" place to live for software engineers?

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Problem Statement

When searching for a job, there are many factors to consider such as salary, benefits, future advancement, etc.

One aspect of this is where we choose to live and work.

So, where is the best place to work?

How do we determine "best place to work"?

Money. Other factors are subjective.

To be objective, we determined the best place to work is where can you make the most money, while spending the least.

Methodology

1. Scrape state taxes, salaries, and cost of living from websites using Beautiful Soup and stored them in tsv files.
2. Parse data into a dictionary of "State Info" objects we define and store it locally.
3. Adjust salary for each state by subtracting the tax from the salary and normalize it based on the cost of living.
4. Visualize data with Plotly, bokeh, scikit-learn, and Matplotlib, and analyze.

Data Set

- Computer Careers- Average Salary of Computer Scientist

    - https://www.computercareers.org/computer-engineer-salary/

- WalletHub - Tax Rates by State

    - https://wallethub.com/edu/best-worst-states-to-be-a-taxpayer/2416/

- Missouri Economic Research Center - Average Cost of Living

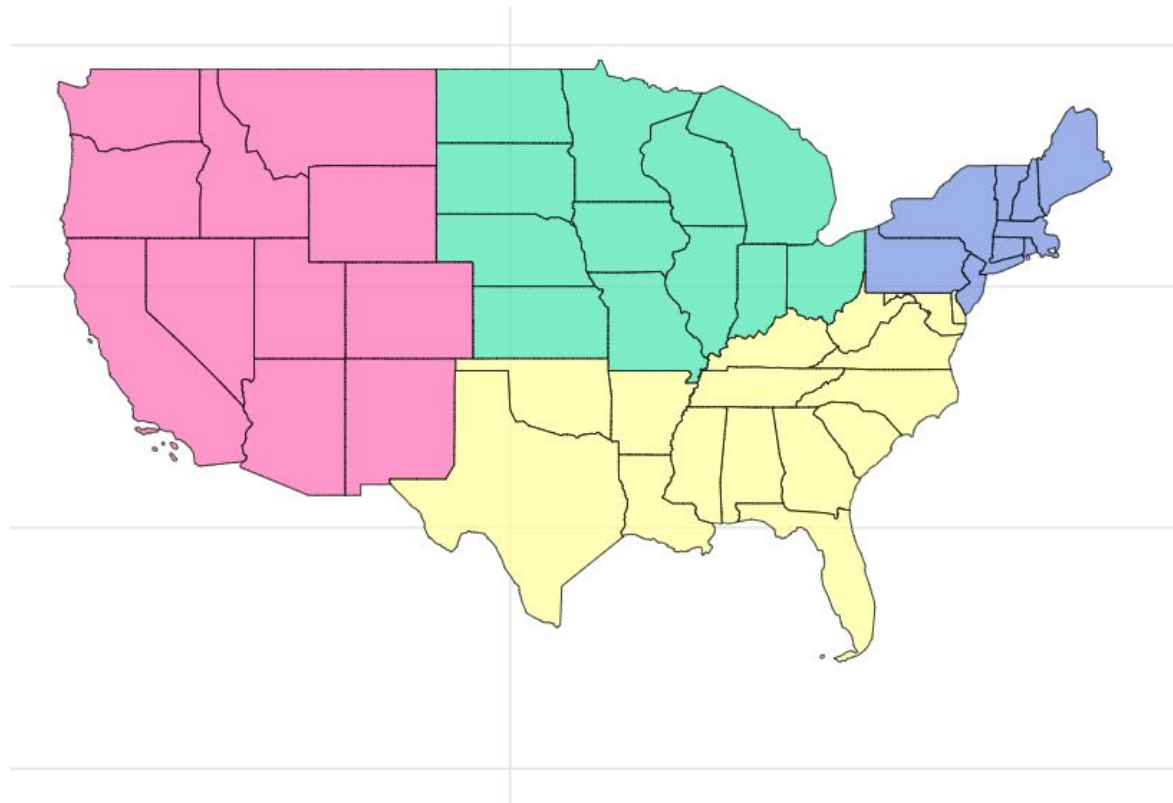   - https://www.missourieconomy.org/indicators/cost_of_living/
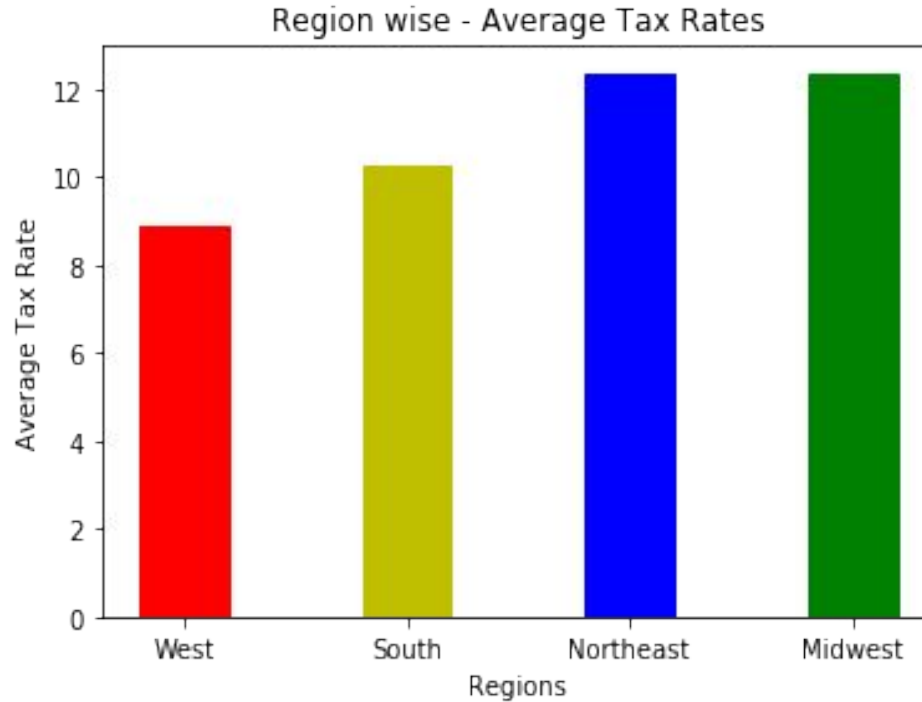
Data Visualizations

Regions

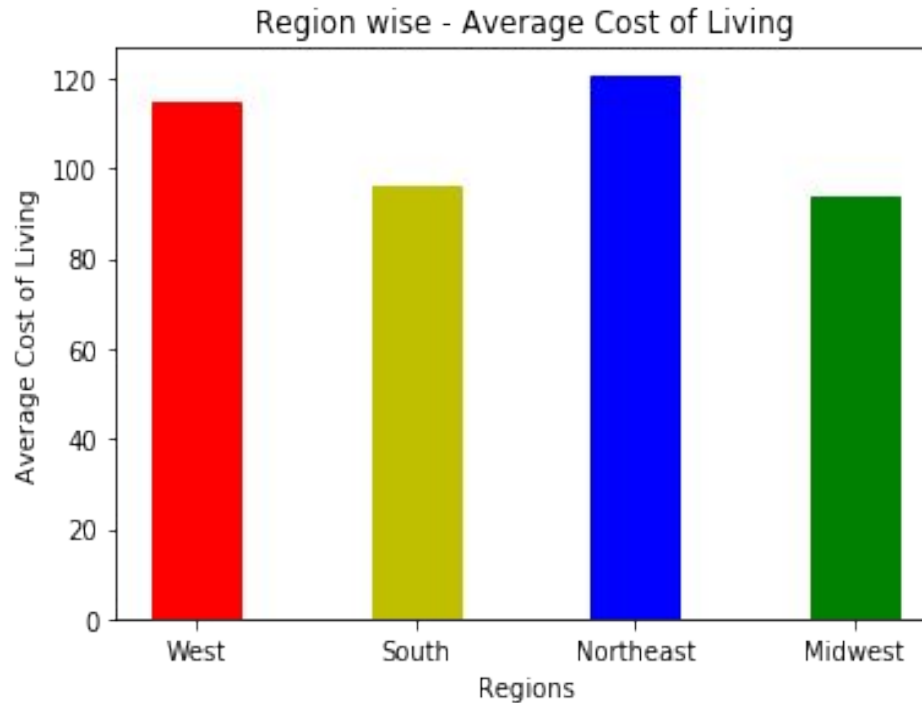West- ■
South- ■
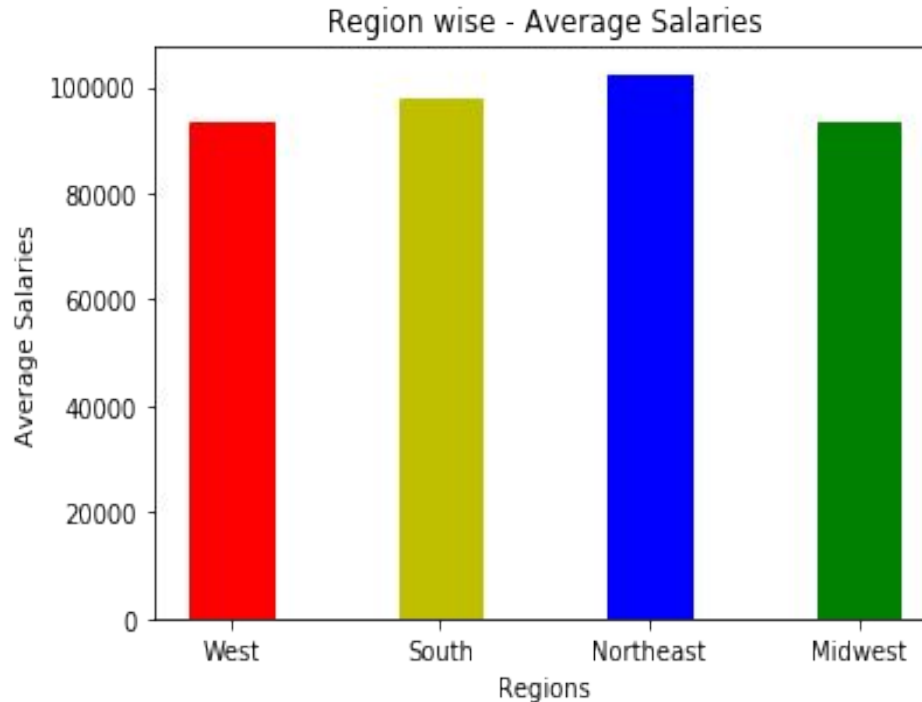Northeast- ■
Midwest- ■

Comparison of Tax Rates

Comparison of Cost of Living
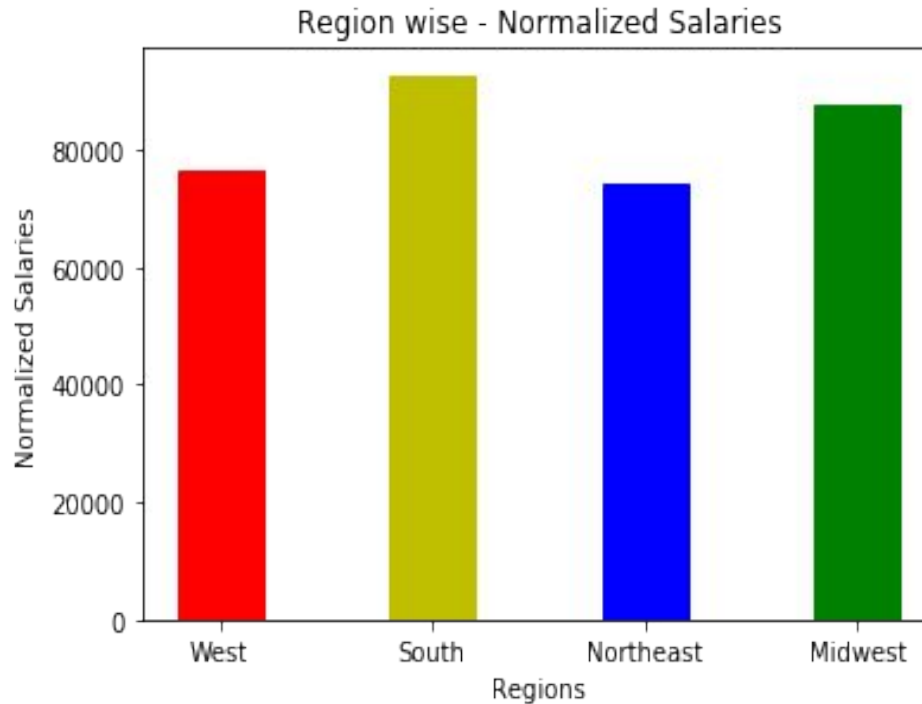
Comparison of Average Salaries

Observations

- Average salaries by state are only a marginal factor in determining adjusted salary
- Cost of Living and Tax Rates will greatly impact adjusted salary

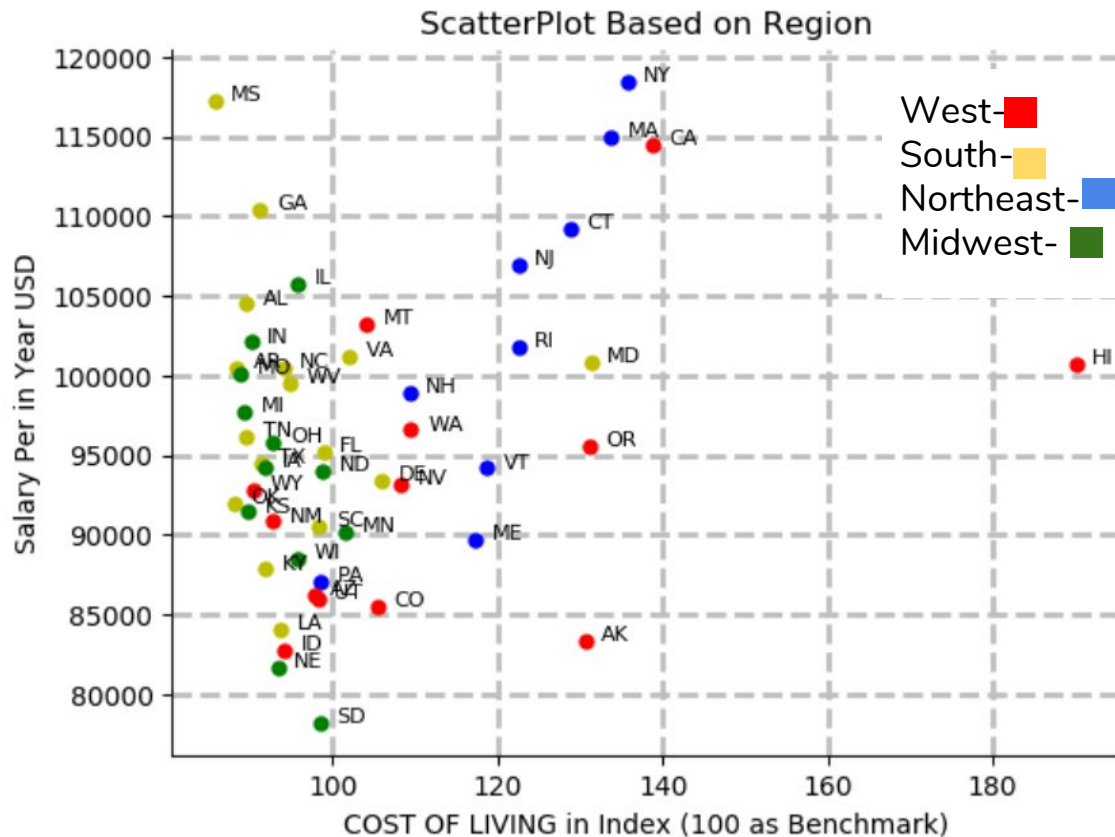|	High Tax	Low Tax
High Cost of Living	Northeast	West
Low Cost of Living	Midwest	South

Comparison of Normalized Salaries

Scatterplot

Top 5: High Cost of Living
- New York
- Massachusetts
- California
- Connecticut
- New Jersey

Top 5: Low Cost of Living
- Mississippi
- Georgia
- Illinois
- Alabama
- Indiana

ScatterPlot Based on Region

Interactive Maps