

Tableau

- Tree Map
- Area Chart
- Stacked Area Chart
- Step Chart

Python

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Datasets: Supermarket, Unemployment, Population,
Postage and Sales Records related datasets from Kaggle

Tableau Tree Map: Expenditures by Categories

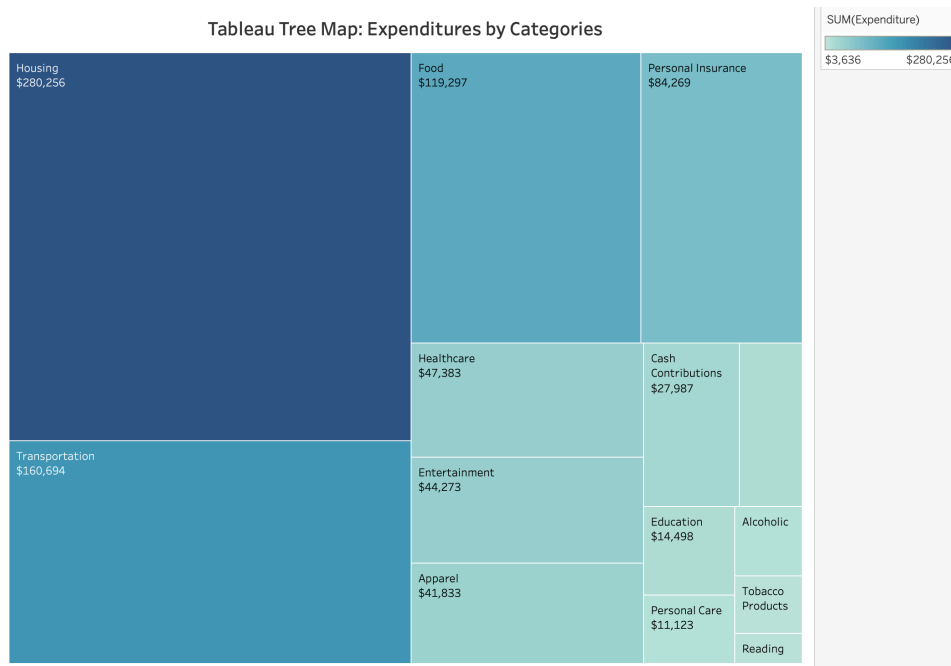


Tableau Step Chart: Unemployment rate for the month of January from 1948-2010

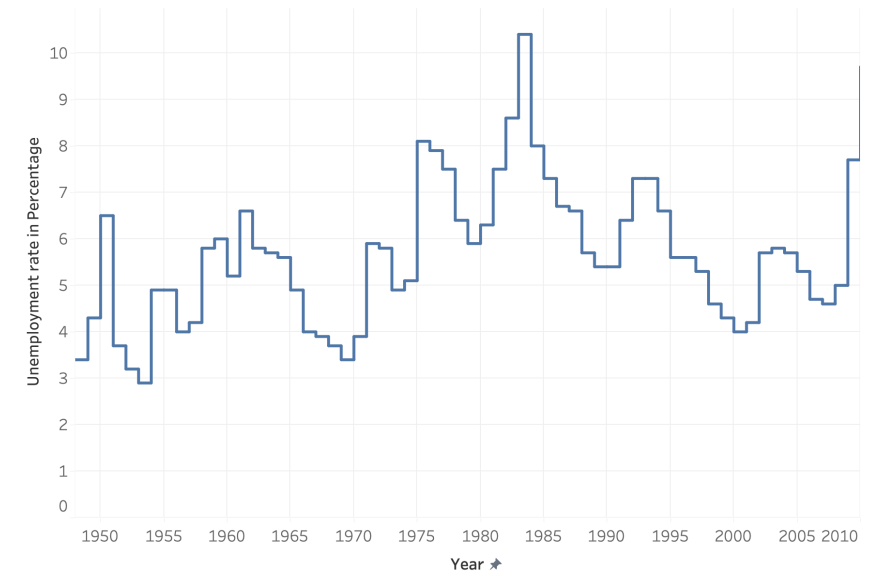


Tableau Area Map: U.S. Postage Price

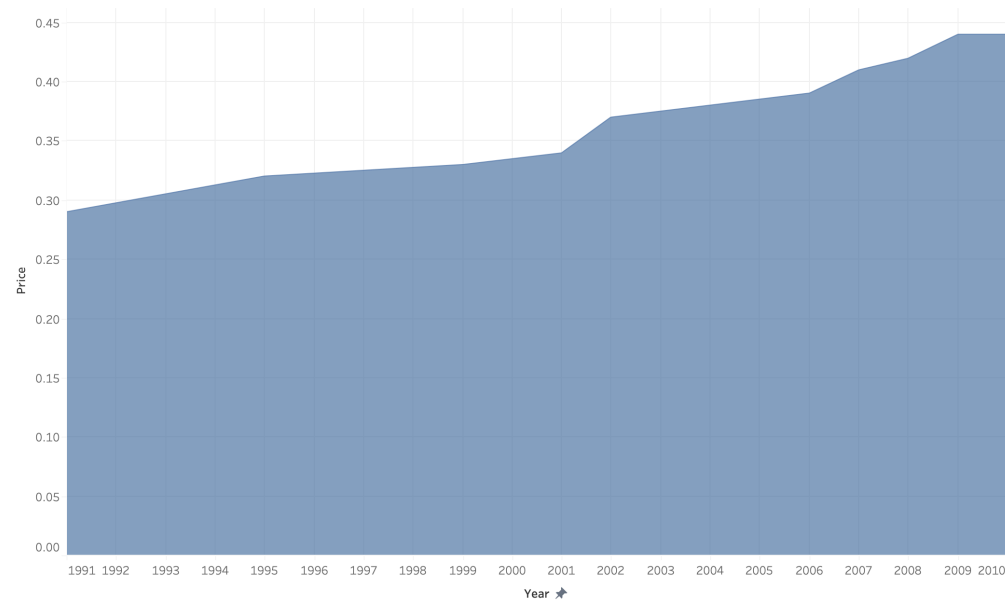
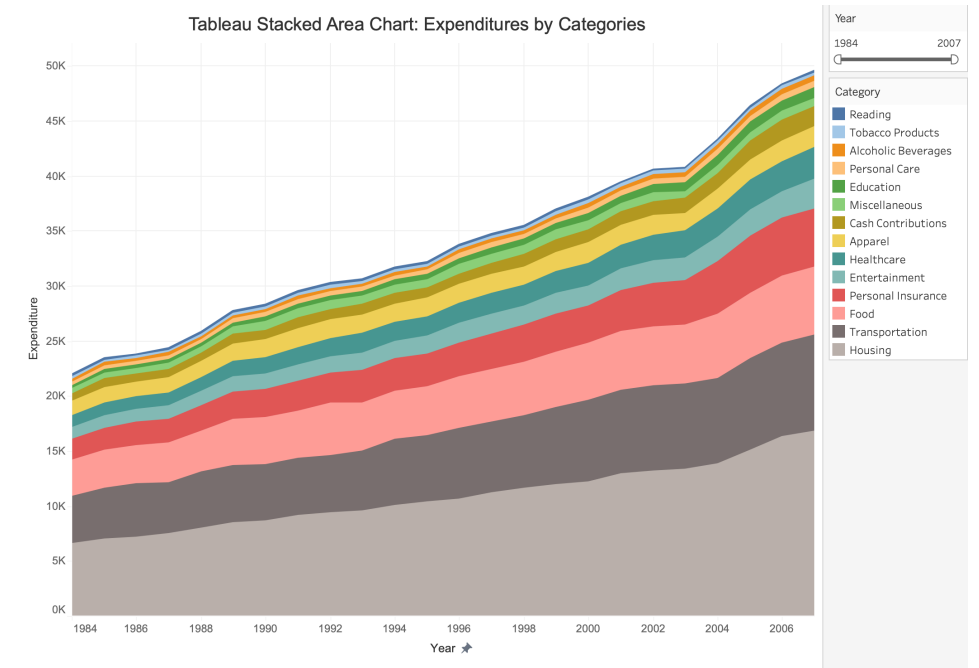
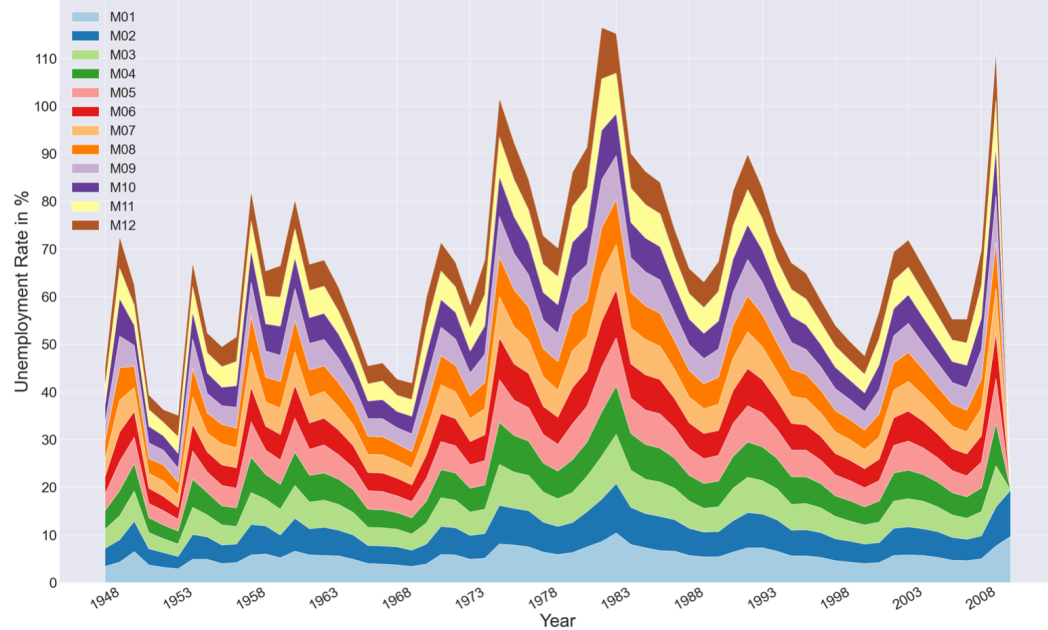


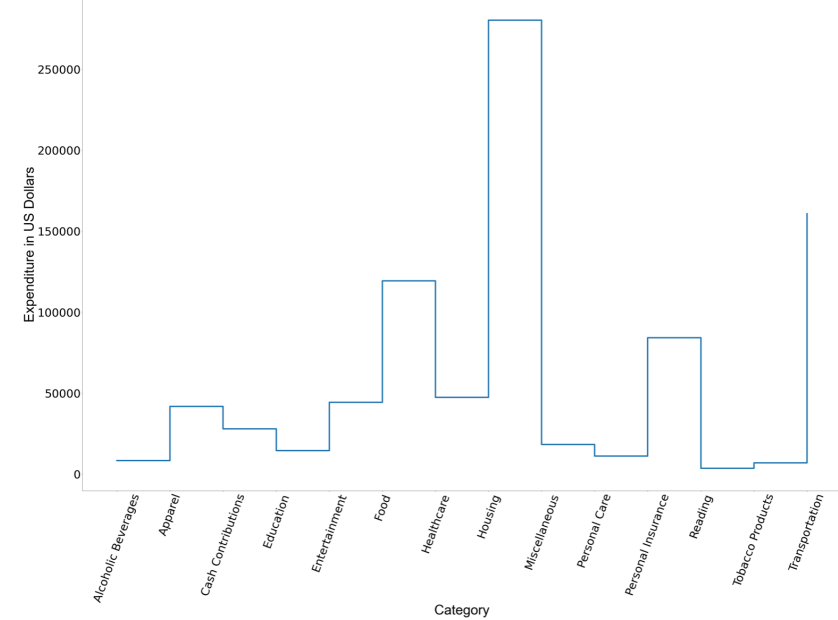
Tableau Stacked Area Chart: Expenditures by Categories



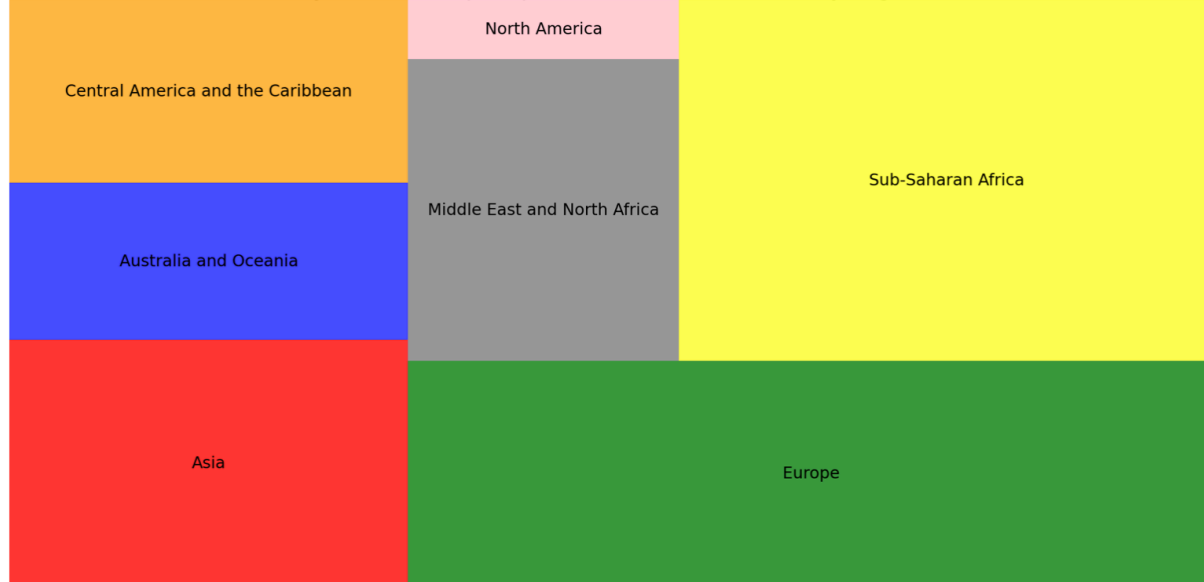
Python Stacked Area Chart: Unemployment Rate from 1948-2010



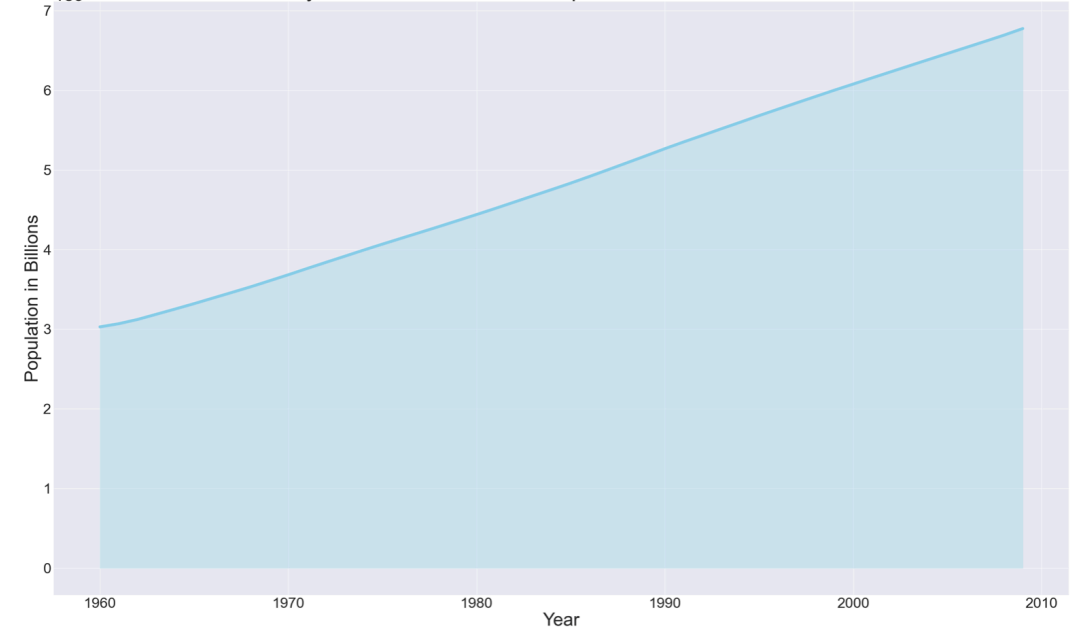
Python Step Chart: Total Expenditure by Category



Python Tree Map: Supermarket's Total Revenue By Region



Python Area Chart: World Population from 1960 to 2009



The treemap displays the distribution of online and offline sales across various product categories. The categories are color-coded and labeled as follows:

- Household (Blue):** Divided into Offline and Online sales.
- Office Supplies (Green):** Divided into Offline and Online sales.
- Cosmetics (Olive):** Divided into Offline and Online sales.
- Meat (Pink):** Divided into Offline and Online sales.
- Baby Food (Orange):** Divided into Offline and Online sales.
- Vegetables (Light Orange):** Divided into Offline and Online sales.
- Snacks (Purple):** Divided into Online and Offline sales.
- Beverages (Dark Green):** Divided into Online and Offline sales.
- Clothing (Light Pink):** Divided into Online and Offline sales.
- Personal Care (Teal):** Divided into Offline and Online sales.

The graph displays a steady upward trend in world population over a 50-year period. The y-axis, labeled 'Population', uses scientific notation ranging from 0e+00 to 6e+09. The x-axis, labeled 'Year', marks decades from 1960 to 2010. A teal line with circular markers represents the population data, and the area beneath it is filled with a matching teal color. The population starts at approximately 3.0 billion in 1960 and reaches approximately 7.5 billion by 2010.

Year	Population (approx.)
1960	3.0e+09
1970	3.7e+09
1980	4.5e+09
1990	5.3e+09
2000	6.1e+09
2010	7.5e+09

The chart displays the unemployment rate in percentages from 1948 to 2008, categorized by period (M0 to M10). The Y-axis represents the unemployment rate in percentages, ranging from 0 to 120. The X-axis represents the year, ranging from 1948 to 2008. The legend on the right indicates the periods: M0 (darkest purple), M1 (dark purple), M2 (purple), M3 (dark blue), M4 (blue), M5 (teal), M6 (green), M7 (light green), M8 (yellow-green), M9 (yellow), and M10 (bright yellow). The chart shows cyclical fluctuations in the unemployment rate, with major peaks around 1952, 1980, and 2003. The M0 period consistently shows the highest unemployment rate, while M10 shows the lowest.

The following table represents the data points from the step plot:

Year	Price
1991	0.28
1995	0.32
1999	0.33
2001	0.34
2002	0.37
2006	0.39
2007	0.41
2008	0.42
2009	0.44
2010	0.44