Matplotlib Plots

1. Chart, line chart

   Description automatically generated

* This first visualization is a line graph. In this graph, I used the annual percentage change around the world excel file. I chose that data for this graph because I believed that this data would be somewhat suitable for this type of graph. The graph is showing the decline of the annual percentage change between the countries of Luxembourg, Slovak Republic, Portugal, and Croatia.

1. Graphical user interface, text, application, email

   Description automatically generated

* This second visualization is a bar graph. In this graph, I used the averages of market value, total remaining debt, and household income for first-time and non first-time homebuyers. The amounts are represented in thousands. I used this graph for that data because I believed that the data could be easily interpreted in this visualization. However, the graph is only depicting data for non first-time homebuyers, so this graph is not well suited for the data unless it was a double bar graph.

1. Chart

   Description automatically generated

* The third visualization is a histogram. In this graph, I used the value of mortgages and market values. I used this data for this graph just for the sake of showing an example of a histogram. None of my data is suitable for a histogram because none of my data is continuous nor specified in intervals or a range of values. This graph is intended to show the relationship between homeowners’ mortgage to the market value of their house. I think a better graph for this data would be a regular bar graph.

1. Graphical user interface

   Description automatically generated with low confidence

* This fourth visualization is a scatter plot. In this graph, I used annual credit growth in percentage changes for different quarters of the years 2019 and 2020. I used the data for this graph because I believed it would show the change of credit growth over time between the quarters. The graph doesn’t depict all of the data, so it doesn’t show much change. I think the graph is suitable for the data.

1. Text

   Description automatically generated

* This fifth graph is an area plot. In this graph, I used the tax amount, insurance amount, and maintenance amounts in homeownership. I believe this is a fair representation of the data. If the graph showed more values, I believe the visualization would look better. The values are represented in hundreds.

1. Chart, pie chart

   Description automatically generated

* This last graph is a pie chart. In this graph, I used the credit growth data again. I do not think this graph depicts the data well at all. The majority of my data would not work for this graph except maybe for the percent of first-time home buyers and non first-time homebuyers in general. A better graph to use for this data would be the scatter plot or a bar graph. This graph doesn’t convey or show how the credit growth between different countries.