DATA VISUALIZATION

INTRO TO R

Data Storytelling

In this lesson, you learnt that Visualization is an important part of data analysis, and R has several packages to help you create graphs and charts.

- Lattice is a package that can create multi-panel plots, which means that you can look at different parts of your data all at once.
  - You can use the "xyplot()" function to create the plot and "xaxis()" and "yaxis()" functions to change the labels on the axes.
- ggplot2 is another package that can help you create graphs and charts in R. It works by creating a basic plot and then adding "geoms" to it.
  - Geoms are different shapes that represent your data, like points or lines.
    - Use "geom_point()" to create a scatter plot or
    - "geom_bar()" to create a bar chart. ggplot2 has many options to help you customize your plots, like changing the colors or fonts.
- Plotly is a package that can help you create interactive graphs and charts. Interactive graphs are ones that you can click on to see more information, like a pop-up with the exact values for a point on a scatter plot. Plotly has many functions to help you create different types of charts, like scatter plots or heatmaps. It's a great tool for exploring complex data sets.

Overall, these packages can help you create great-looking graphs and charts to help you understand your data.

Now, you should be comfortable with

- importing data into R for visualization
- the different types of plots and charts that can be created using R, and their appropriate use cases
- How to customize the visual appearance of your plots, such as colors, fonts, and labels

Want to learn more about data visualization in R? Try this free course:

Introduction to Data Visualization with ggplot2

Learn to produce meaningful and beautiful data visualizations with ggplot2 by understanding the grammar of graphics.

https://www.datacamp.com/courses/introduction-to-data-visualization-with-ggplot2