[**Data visualization** is the graphical representation of information and data using visual elements like charts, graphs, and maps, making trends, outliers, and patterns in data accessible and understandable for both technical and non-technical audiences1](https://www.tableau.com/learn/articles/data-visualization).

Here are **five free resources** where you can learn more about data visualization:





1. **Tableau**: You can use Tableau for free for one year by registering with your school email. [It’s a powerful tool for creating interactive dashboards and visualizing data](https://www.tableau.com/learn/articles/data-visualization)[2](https://www.visual-design.net/post/how-to-learn-data-visualization-for-free).
2. **Power BI**: If you’re a Windows user, Power BI desktop is a great choice. [For Mac users, running Power BI on a virtual machine can be a workaround](https://www.tableau.com/learn/articles/data-visualization)[2](https://www.visual-design.net/post/how-to-learn-data-visualization-for-free).





1. **Google Data Studio**: Designed for real-time collaboration, Google Data Studio integrates seamlessly with other Google products. [While it has limited functionalities, it’s excellent for basic visualizations](https://www.tableau.com/learn/articles/data-visualization)[2](https://www.visual-design.net/post/how-to-learn-data-visualization-for-free).
2. [**SAS University Edition**: SAS provides a free version called “SAS University Edition” that allows beginners to grasp basic data visualization functions](https://www.tableau.com/learn/articles/data-visualization)[2](https://www.visual-design.net/post/how-to-learn-data-visualization-for-free).





1. **Python and R**: These programming languages offer flexibility for creating graphs and visualizations. [You can explore libraries like ggplot2 (for R) and seaborn (for Python) to get started](https://www.tableau.com/learn/articles/data-visualization)[2](https://www.visual-design.net/post/how-to-learn-data-visualization-for-free).

Feel free to dive into these resources and enhance your data visualization skills! 📊👀