

TOPIC: “Open Source Data Visualization”.



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Open Source

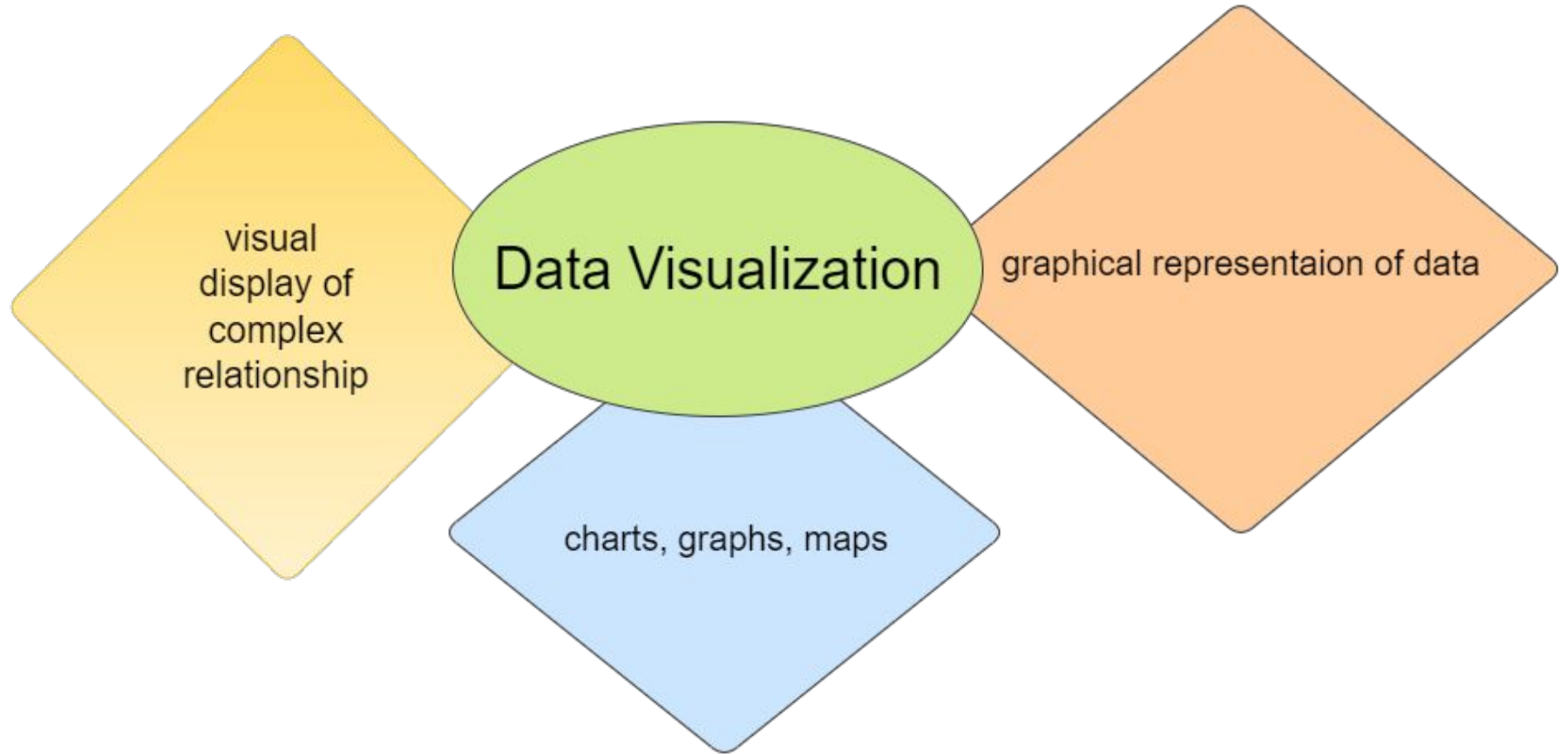
software
distributed freely

accessible source
code

can be modified and
improved by anyone

collaboration and
learning

WHAT IS DATA VISUALIZATION?



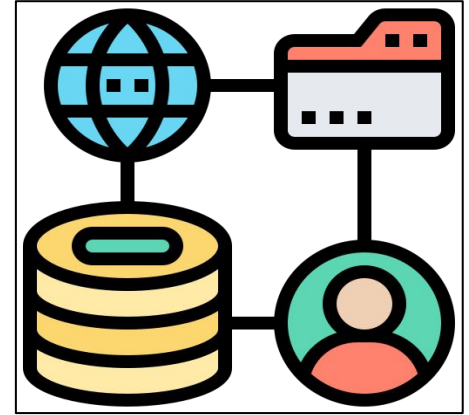
Why Data Visualization?



Analysis of data



Faster Decision
making

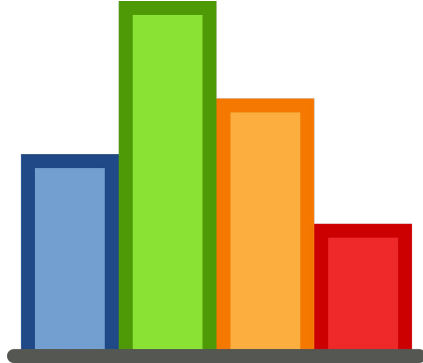


Make sense of
complicated data

Purpose Of Data Visualization

- Data visualization is essential to analyze massive amounts of information and make data driven decisions.
 - Management also applies it to convey organizational structure and hierarchy.
 - Data Analysts and Scientists study and explain the trends and pattern.
-

Types Of Data Visualization



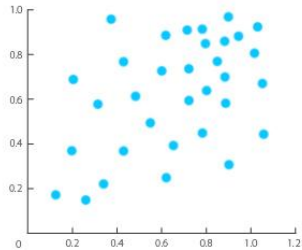
Charts



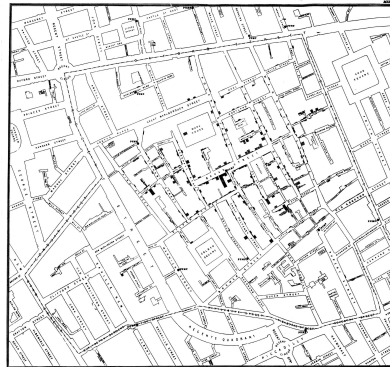
Tables



Dashboards



Scattered plot

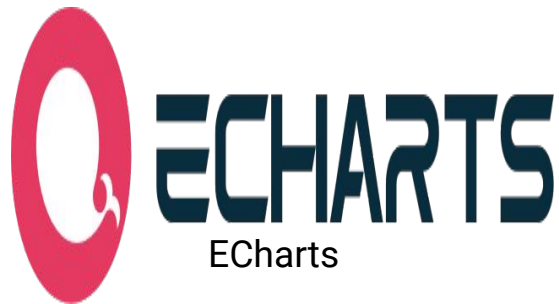


Maps

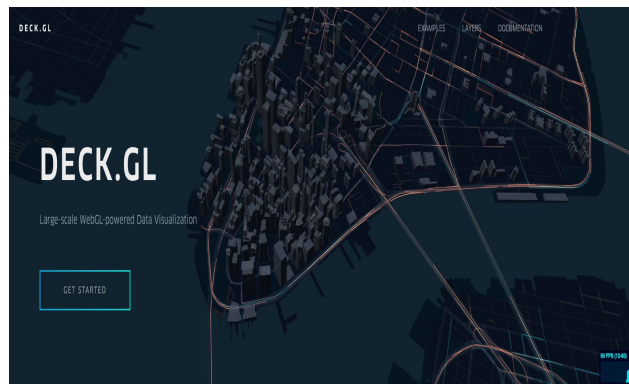
Open Source Data Visualization Tools.



D3.js



Vega



deck.gl

Open Source Data Visualization Tools

Open source libraries provide a way for analysts to present data in an interactive way.

- D3.js:

It is a javascript library producing dynamic, interactive visualization in web browsers

- ECharts:

A charting library which offers an easy way to add highly interactive and customizable charts.

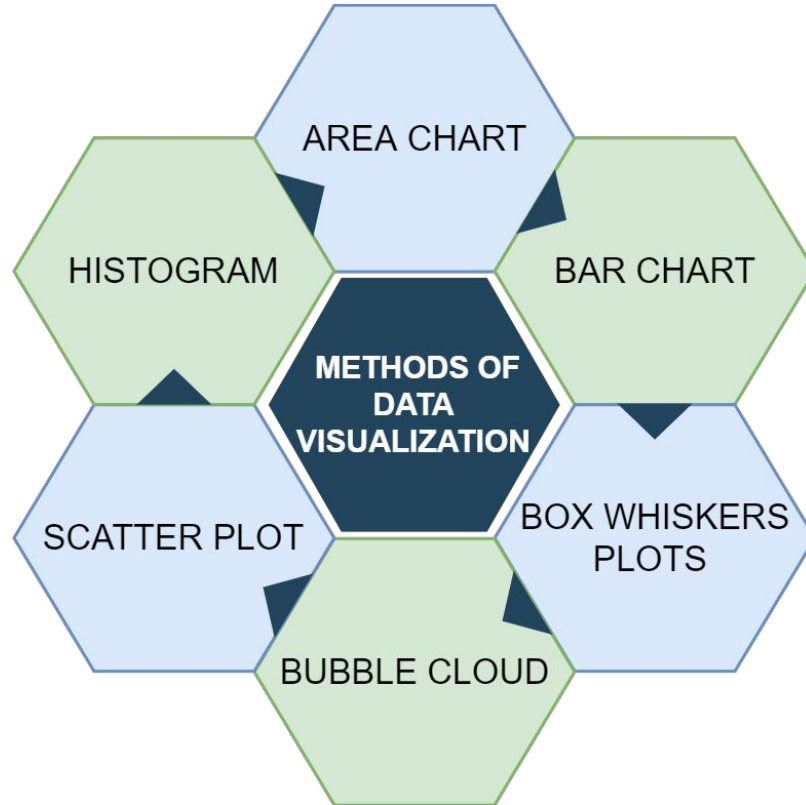
- Vega:

provides support to customize visualization across large dataset which are accessible from web.

- deck.gl:

A framework, which is used for exploratory data.

Some Specific Methods Of Data Visualization.



HOW IT WORKS?

Client/User



imports a file into a tool
Eg: .csv, excel etc

Validate the file
format and data
set



Generate the
appropriate graph



PROBLEM STATEMENT

"We have a client who owns a restaurant which provides food of 5 different origins, he wants to know the overall ratings of his restaurant from his customers"

SOFTWARE REQUIREMENTS

- ★ OS: Windows
- ★ IDE: jupyter notebook
- ★ Programming language: Python

REFERENCES.

- ★ Kaggle.com