UNIT - IV

D3 - Data Driven Documents

About D3

D3 (or D3.js) is actually an open source JavaScript library designed with the intention of visualizing data using todays web standards.

D3 helps put life into your data utilizing Scalable Vector Graphics (SVG), Canvas, and standard HTML.

D3 combines powerful visualization and interaction techniques with a data-driven approach to DOM manipulation, giving you the full capabilities of modern browsers and the freedom to design the right visual interface for your data.

About D3

D3.js allows inordinate control over the visualization of your data

D3 is embedded within an HTML webpage, and uses prebuilt JavaScript functions to select elements, create SVG objects, style them, or add transitions, dynamic effects, and so on.

D3.js libraries can be accessed at https://D3js.org.

D3 and Big Data

Can easily bind or use your large datasets to common SVG objects using the functions available in the D3.js libraries.

The data can even be in a variety of formats, most commonly JSON, comma-separated values (CSV), or geoJSON, but, if required, JavaScript functions can be written to read other data format.

D3 may seem like a bad fit for big data visualization projects.

The D3.js libraries just won't work with gigabytes of data, but once you perform some preprocessing on the data, D3 can help make sense of the results

Example of visualizing big data using the power offered by opened sourced, D3

THE END