**What is Tableau?**

Tableau is easy-to-use business intelligence software. It makes data visualization, data analytics, and reporting as easy as dragging and dropping. Anyone can learn to use Tableau without having a prior programming experience. Tableau can combine data from various data sources such as spreadsheets, databases, cloud data, and even big data- all into one program to perform dynamic analysis.

**Features of Tableau**

* It is very easy to utilize.
* You don’t have to be familiar with programming of any sort, all you require is a few data and tableau to generate reports that can visually enchanting and which tells a story which user have to tell their managers or impress their professor in class.
* It has drag and drop feature by which user can simply generate story or reports with drag and drop and a few thoughts.
* This is feasible due to the VizQL (VizQL is a visual query language which translates drag-and-drop actions into data queries and then expresses that data visually. VizQL delivers dramatic gains in people’s ability to see and understand data by abstracting the underlying complexities of query and analysis).

**Why do we need Tableau?**

**Multiple reasons –**

* Ability to real-time filter, sort and embedding live dashboards
* Real-time blending of data sources without integration cost
* No need of complex installation. Desktop version is sufficient for all the purposes.
* Supported by most of the devices
* 40 data sources as be connected
* can create much more complex graph

**3 simple benefits –**

* Quick visuals can be created and switch bw different type is easy. This helps us to find the right thing that dictate our story
* The tableau default contains best practices, so the initial output itself will have a good color scheme/combination and layout.
* The user interface is very well-organized and easy to understand. This helps us in creating a customized view with a few clicks and drag/drops instead of multi menu layout

**Tableau Desktop (Business analytics anyone can use) –**

It is a data visualization application that lets us analyze virtually any type of structured data and procedure highly interactive, beautiful graphs, dashboards, and reports in just minutes.

Using this we can build and interact with views of data. These views allow you to query, display, analyze, filter, sort, group, drill down, drill up, calculate, organize, summarize and present the data faster and more effectively. Once a quick installation, you can tie to virtually any data source from spreadsheets to data warehouses and display information in several graphic perspectives. Designed to be easy to utilize, you’ll be working more rapidly than ever before.

[**Tableau server**](https://intellipaat.com/tableau-server-training/#certification)

It is a business intelligence application which offers browser-based analytics anyone can utilize. It is a rapid-fire alternative to the slow pace of traditional BI software. It is an online solution meant for sharing, distributing, and collaborating on content created in Tableau.

**Tableau Online**

Tableau Online is a secure, cloud-based solution used for sharing, distributing, and collaborating on Tableau views and dashboards. Tableau Online set the flexibility and ease of a powerful cloud-based data visualization solution to work intended for you—without servers, server software, or IT support. It builds rapid-fire business analytics easier than ever. Share dashboards among your whole company and with customers and partners— in minutes. Provide live, interactive sights of data to facilitate people answer their own questions, right in a web browser or on a tablet. And do it in a secure, hosted environment. Tableau Online be able to scale up as much as you require and you can use it wherever you require it. You don’t have to purchase, set up or manage any infrastructure.

**Tableau Public**

Tableau Public is free software to facilitate anyone to connect to a spreadsheet or file and create interactive data visualizations for the web. It is delivered as a service which permits user to be up and running overnight. With Tableau Public user can construct amazing interactive visuals and publish them quickly, without the help of programmers or IT.

It is designed for organizations to facilitate their websites with interactive data visualizations. There are higher limits on the size of data you can work with. And among other features, you can keep your underlying data hidden.

**Type of Tableau Files -**

* **Tableau Workbook (.twb)** – Saves the all the sheets and their connection information in a workbook file. The data is not included.
* **Tableau Packaged Workbook (.twbx)** – Saves all the sheets, their connection information and any local resources (e.g., local file data sources, background images, custom geocoding, etc.).

**Extracts can**

* Improve performance.
* Add functionality to file based data sources, such as the ability to compute Count Distinct.
* Provide offline access to your data
* Creating an Extract
* Using Extracts
* Refreshing Extracts
* [Adding Rows from a File](https://intellipaat.com/tutorial/qlikview-tutorial/charts-tables/)
* Upgrading Legacy Extracts
* Optimizing Extracts

**Bins**

* **Tableau Desktop:** Made for individual use
* **Tableau Server:** Collaboration for any organization
* **Tableau Online:** Business Intelligence in the Cloud
* **Tableau Reader:** Let you read files saved in Tableau Desktop.
* **Tableau Public:** For journalists or anyone to publish interactive data online.