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# Tableau Tutorial

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## Tableau Tutorial

As a leading data visualization tool, Tableau has many desirable and unique features. Its powerful data discovery and exploration application allows you to answer important questions in seconds. You can use Tableau's drag and drop interface to visualize any data, explore different views, and even combine multiple databases easily. It does not require any complex scripting. Anyone who understands the business problems can address it with a visualization of the relevant data. After analysis, sharing with others is as easy as publishing to Tableau Server.



The real advantage of Tableau is its capacity to investigate any data of any size by a simple drag and drop interface. You can utilize Tableau's drag and drop interface to visualize any data, investigate distinctive perspectives, and even combine various databases effectively. It doesn't require any complex scripting. Any individual who understand the business issues can address it with a representation of the relevant data.



**What are the tableau products?**

**The different products which tableau has built are:**

**Tableau desktop:**

Tableau desktop (Business analytics anyone can use) Tableau Desktop is based on breakthrough technology from Stanford University that lets you drag & drop to analyse data. You can connect to data in a few clicks, then visualize and create interactive dashboards with a few more.

We've done years of research to build a system that supports people's natural ability to think visually. Shift fluidly between views, following your natural train of thought. You're not stuck in wizards or bogged down writing scripts. You just create beautiful, data visualizations.

**Tableau Server:**

Tableau server is a enterprise class business analytics platform to level up, a huge number of clients. Tableau Server coordinates with various segments in your IT foundation to give a a kind self-benefit data analysis culture for your clients. Tableau Server shows effective mobile and web based analysis and works among organization's data strategy and security protocols.

**Tableau online:**

[Tableau online](#), the well-known analytics platform for everyone. It is hosted in the cloud for user availability. It Distributes Dashboards and spread your discoveries with everyone. Anyone can easily utilize features of tableau online access through, tableau mobile apps.

**Tableau Reader:**

Generally Tableau Reader is a free desktop application that allows viewing package workbooks with full interactivity. It allows to filter and drill data but, cannot perform any kind of interactions. Tableau Reader can provide only product list.

## Which Tableau Product is Best?

### Tableau Features:

As a data visualization tool, Tableau has numerous desirable and unique features. Its Powerful data discovery and exploration application enables you to answer essential questions in seconds. Some of them are recorded below:

- **Centralized Data:** Tableau server provides a centralized location to manage all of the organization's published data sources. You can delete, change permissions, add tags, and manage schedules in one convenient location. It's easy to schedule extract refreshes and manage them in the data server. Administrators can centrally define a schedule for extracts on the server for both incremental and full refreshes.
- **Tableau Visual Discovery:** The client investigates and analyses the data by utilizing visual devices like colors, trend lines, graphs, and charts. There is little script to be written as almost everything is done by drag and drop .
- **Tableau Self-Reliant:** Tableau does not require a complex software setup. The desktop versions which is utilized by most clients is easily installed and contains every one of the features needed to start and complete data analysis.
- **Tableau Centralized Data:** Tableau server provides a centralized location to deal with the majority of the association's distributed data sources. You can delete, change permissions, include tags, and manage schedules in one convenient location. It's anything but difficult to plan extract refreshes and manage them in the data server.
- **Tableau Real-Time Collaboration:** Portals like SharePoint site or Salesforce can sort and filter the data. Associates can subscribe to your interactive dashboards by saving your data. So, that they see the exceptionally most recent data just by reviving their web program.
- **Architecture Agnostic:** Tableau works in multiple devices where data flows. Consequently, the user need not stress over particular hardware or software requirements to utilize Tableau.
- **Blend Diverse Data Sets:** Tableau allows you to blend different relational, semi structured and raw data sources in real time, without expensive up-front integration costs. The users don't need to know the details of how data is stored.

### Why should we use tableau?

There are many reasons why one should use tableau they are

**It is very easy to use:**

You don't need to know programming of any sort, all you need is some data and tableau to create reports that are visually enchanting and which tells a story which you need to tell ur managers or impress your professor in class.

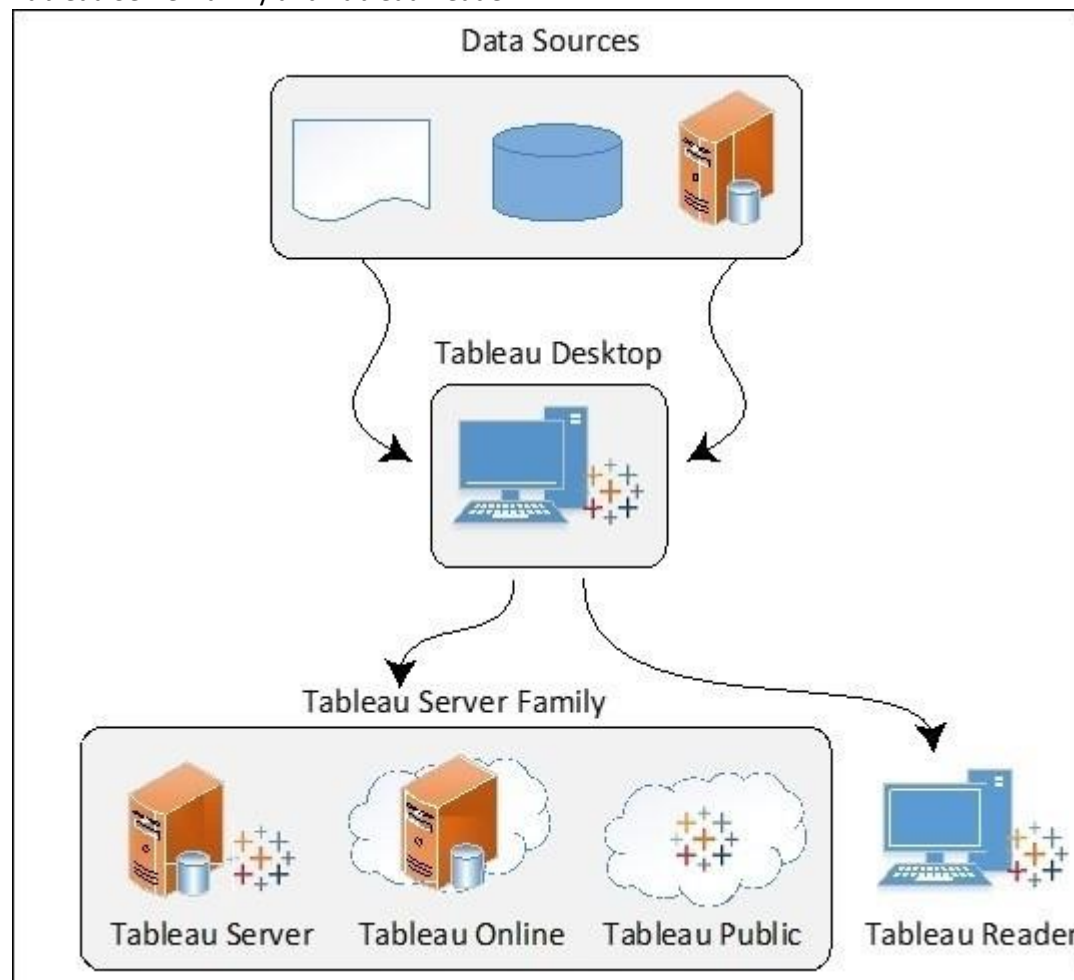
With its revolutionary drag and drop feature u can easily create stories or reports using just your mouse and a little imagination. All this is possible due to the revolutionary VizQL a visual query language

### VizQL

VizQL is a visual query language that 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. The result is an intuitive user experience that lets people answer questions as fast as they can think of them. We believe that VizQL represents a foundational advancement in the area of data analysis and visualization.

## The Tableau universe

Tableau Software has a focused vision resulting in a small product line. The main product (and hence the Center of the Tableau universe) is [Tableau Desktop](#). Assuming you are a Tableau author, that's where almost all your time will be spent when working with Tableau. But of course you must be able to connect to data and output the results. Thus, as shown in the following figure, the Tableau universe encompasses data sources, Tableau Desktop, and output channels, which include the Tableau Server family and Tableau Reader:



**Tableau connects to many data sources. Those data sources will be discussed in more detail in the following section:**

Tableau Desktop	Tableau Desktop is where visualizations are created. Although, as of Tableau 8.0, some authoring capabilities were introduced into the Tableau Server environment, that environment is limited. Thus, the heavy lifting is still done in Tableau Desktop. <a href="#">Explain about Tableau Desktop?</a>
Tableau Server Family	<p>Once completed in Tableau Desktop, a workbook can be uploaded to Tableau Server for end-user access. Tableau Server provides a secure, web-based environment where end users can access visualizations created in Desktop either through a browser or via the Tableau Mobile app for Android and iPhone.</p> <p>Tableau Online is a cloud-based version of Tableau Server hosted by Tableau Software. It's an ideal solution for smaller organizations that need the security and flexibility of Server without the associated overheads. <a href="#">Explain about Tableau Server?</a></p> <p>Tableau Public is, in reality, split into two products: the Tableau Public client, and a cloud-based, public-facing version of Tableau Server. The client has the capabilities of Desktop, with a few major exceptions:</p> <ul style="list-style-type: none"> <li>The data sources you can connect to are very limited (for example, Excel, Access, text file formats and web data connectors)</li> <li>You can only publish to Tableau Public</li> <li>You are limited to 15 million rows of data per workbook</li> </ul>
Tableau Reader	<p>The relationship between Tableau Desktop and Tableau Reader is synonymous to that between Adobe Acrobat and Adobe Reader. Desktop is used for authoring; Reader is used for viewing. Desktop has an associated cost; Reader is free.</p> <p>A few brief notes regarding Reader:</p> <ul style="list-style-type: none"> <li>Filters, dashboard actions, animation and parameters are all accessible on Reader, but no authoring is enabled</li> <li>Reader is useful for presentations when Desktop is not available</li> <li>Reader can only be used with packaged workbooks that do not contain live connections to other data sources</li> </ul>

Tableau Software currently only for Windows System not for Mac OS X, Tableau content that is published to Tableau Public on the web can be viewed in your web browser regardless of your operating system. However, to author and publish views and workbooks, you use Tableau Desktop Public and Professional Editions, which currently are Windows applications. If you use a Macintosh computer that has an Intel processor, you can use virtualization software such as VMware Fusion or Parallels Desktop to install Windows and run Tableau Desktop. Alternatively, you can use a built-in utility called BootCamp to install Windows and run the Tableau software.