



Tableau Platform

Harness the power of your data

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What will we see today?

- Introduction to Tableau
- Capabilities of Tableau - Examples



What is Tableau?

- Tableau is a powerful and flexible end-to-end **data analysis platform**.
- Tableau is **equipped with data visualization tools** and is used by many companies around the world, mostly for data science and business intelligence purposes.
- Tableau software **doesn't require any technical or any kind of programming skills to operate**. The tool has garnered interest among people from various sectors such as business, researchers, different industries, etc.



Why Tableau?

- **Intuitive platform:** Drag and drop analytics platform in Desktop. Easy to use.
- **Flexibility:** Collaboration with almost any type of data source.
- **Interactive visuals:** Contains a lot of visualization options with filters and animations that can create an interactive environment.
- **Quick production time:** Real time analysis combined with Drag and drop feature can reduce work time.
- **Data Blending:** Advanced data blending techniques.



Introduction to Tableau

Tableau Makes the Job Easier

- Tableau allows **visual access to huge amounts of raw data** in easily digestible visuals.
- Creates a **wide range of different visualization** to interactively present the data and showcase insights.
- Also comes with **real-time data analytics** capabilities and **cloud support**.
- **Very fast data analysis** and the visualizations created are in the form of dashboards and worksheets.



Tableau Products

- [Tableau Prep](#): Prepare your data for analysis with Prep.
- [Tableau Desktop](#): Use powerful drag-and-drop analytics in Desktop. Make visualizations with a few clicks.
- [Tableau Online](#): Share data and insights with Server or Online.
- [Tableau Server](#): Watch data-driven decisions spread.
- [Tableau Public](#): It is Free, but with some limitations.



What is Tableau Desktop ?

- **Tableau Desktop** is a business intelligence and data visualization **tool** that can be used by anyone.
- Specializes in **transforming boring tabulated data into eye-candy graphs** and representations.
- Users can make **real-time data analytics** by directly **connecting to data from their data warehouse**.
- Users can easily **import** their data into Tableau's data engine **from multiple sources** and integrate them by **combining multiple views in an interactive dashboard**.



Download Tableau Desktop

- Tableau Desktop is **free for students for one year**.
- You can download it here:
<https://www.tableau.com/academic/students>



What Can Tableau Support?

- [Relational databases](#)
- [Online analytical processing cubes](#)
- [Cloud databases](#)
- [Spreadsheets](#)
- [In-memory data engine](#)



What Data Types Can Tableau Support?

- **File types:** Excel(.csv), Text file, Json, Microsoft Access, Pdf files, Statistical files (.sav), etc.
- **Server types:** SQL Server, Oracle, Amazon Redshift, Google Drive, Spark SQL, etc.



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Capabilities of Tableau - Examples

Connecting to Data Sources

- Import CSV Data:
<https://www.youtube.com/watch?v=8V2LL9oNHXQ>
- Connect to Spark SQL:
<https://www.youtube.com/watch?v=OKclF6UdK7c>



Capabilities of Tableau - Examples

Group, Set and Calculated Fields

- Create Groups:
<https://www.youtube.com/watch?v=fbYOKyx8xHo>
- Group vs Set:
<https://www.youtube.com/watch?v=a35QPIHyofY>
- Create Calculated Fields: <https://www.youtube.com/watch?v=g3xPXdkXeXA>



Capabilities of Tableau - Examples

Split, Custom Split, Pivot and Bins

- Pivot:
<https://www.youtube.com/watch?v=fvRVJ7d7NFI>
- Split and Custom Split:
<https://www.youtube.com/watch?v=d4eITApct6M>
- Create Bins:
<https://www.youtube.com/watch?v=VwDPBWuHu3Q>



Capabilities of Tableau - Examples

How to Create Dashboards With Filters

- Dashboards:
<https://www.youtube.com/watch?v=Nr31rvqtsJ8>
- Filters:
<https://www.youtube.com/watch?v=XbMXKWaFk1c>
- Interactive Filters:
<https://www.youtube.com/watch?v=yM4VsvmSBSY>
- Filters Across Sheets:
<https://www.youtube.com/watch?v=PSiEYeBeeFM>
- Add a Quick Filter to a Dashboard:
<https://www.youtube.com/watch?v=51cVBCwoqbg>



Capabilities of Tableau - Examples

Functions in Tableau

- <https://help.tableau.com/current/pro/desktop/en-us/functions.htm>
- https://help.tableau.com/current/pro/desktop/en-us/functions_all_alphabetical.htm
- <https://www.youtube.com/watch?v=J1TVlgovzCE>
- https://help.tableau.com/current/pro/desktop/en-us/calculations_calculatedfields_aggregate_create.htm
- <https://www.youtube.com/watch?v=sa2VlsLk98k>



Capabilities of Tableau - Examples

Tableau Tutorials

- https://www.youtube.com/watch?v=jj6-ocvcNEA&list=PL9ooVrP1hQOH7ni13w776zP_X9ny3Eksv&index=1
- <https://www.youtube.com/watch?v=clupe7xFpBA>
- <https://www.youtube.com/watch?v=gWZtNdMko1k&list=PLWPirh4EWFpGXTBu8ldLZGJCUEtMBpJFK>
- https://www.youtube.com/watch?v=fO7gopnWaRA&list=PL28g6o-lx4bqCV6YLe8mfsP_wUyBpcn7x
- https://www.youtube.com/watch?v=l2aBl_axkLk



Capabilities of Tableau - Examples

Download
Datasets and Try
Tableau

- <https://www.gapminder.org/data/>
- <https://www.kaggle.com/>



Thank you!

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