

# Tableau

Tableau is a business intelligence and data visualization tool that can be used by anyone. It specializes in transforming boring tabulated data into eye-candy graphs and representations. With tableau desktop, you can enjoy real-time data analytics by directly connecting to data from your data warehouse. You can easily import your data into Tableau's data engine from multiple sources and integrate them by combining multiple views in an interactive dashboard.

## What is Tableau

Tableau is a leading data visualization tool used for data analysis and business intelligence. Gartner's Magic Quadrant classified Tableau as a leader for analytics and business intelligence.

## Benefits of Tableau

### Incredibly Strong Data Visualization

Tableau is many things. However, most importantly, it's a tool specialized in data visualization. As such, it exists to make complex calculations and large data sets far simpler to interpret.

The data visualization aspect of Tableau is especially beneficial. From the blending of data to responsive dashboarding and beyond, Tableau is the ultimate reporting tool for businesses.

### Fast Creation of Interactive Dashboards

With Tableau, users develop interactive dashboards and visualizations at a blazing fast pace. Impressively, you don't need advanced data science knowledge to get started creating beautiful dashboards.

Tableau's user interface can be customized with variations of color, design, chart type, and more. It does this while also constraining users from creating visuals that go against best practices for visualizations.

### **Ease of Use, Smaller Learning Curve**

**Tableau has extensive visualization types, all geared towards ease of use for the user. It has a far lower learning curve and barriers to entry than alternative visualization software and tools. Tableau was developed to ensure minimal frustration from end to end, developer to the consumer.**

**The software's simple developer tools, usage, and interface is a quick study, with ample online resources. They also have one of the largest communities online for support, discussion, and more. Finally, Tableau is so vast they have a massive conference each year that draws tens of thousands.**

### **Ethics of Tableau**

#### **Simple Data Connections Across Mediums**

**Tableau is an absolute data powerhouse with amazing capabilities for handling large data sets with ease. Preparing millions of rows of data across multiple source types and data sets is quick and straightforward.**

#### **Alternative Scripting Language Access**

**Avoiding performance issues and ensuring dashboard optimization is a considerable push in Tableau. To prevent these issues, developers can use R or Python scripting languages.**

**Utilizing Python scripts can assist with taking load time off of Tableau via data cleansing. However, it should be noted that Python scripting isn't natively-accepted in Tableau currently.**

**There's also the Tableau SDK. Per a report, Tableau SDK is a set of functions that can be called from within C, C++, Java, or Python. They are meant to create tableau extracts and publish them on Tableau Server.**

## **Responsive Dashboards with Strong Mobile Support**

**Tableau dashboards are focused on incredible reporting features with responsive dashboarding opportunities. Unlike alternative tools, Tableau data visualization lets developers customize dashboards for multiple devices. One dashboard can be effectively used across desktops, tablets, and mobile devices with ease.**