# Tableau Overview

Eric Snell

2024-05-10

## Introduction to Tableau

Tableau is a powerful data visualization tool used for statistical computing and graphics. It provides a wide variety of techniques for data visualization and analysis, making it popular among analysts, data scientists, and business professionals.

If you master Tableau's powerful data visualization and analysis capabilities, you'll be well-equipped to explore, analyze, and communicate insights from your data effectively. Work on experimenting with Tableau, exploring new features and techniques, and sharing your work with others to continue improving your Tableau skills and driving data-driven decision-making in your organization.

## Choosing a Development Environment

When working with Tableau, you have several options for development environments. Here are three popular choices:

### Tableau Desktop

Tableau Desktop is the primary development environment for creating Tableau visualizations. It provides an intuitive interface for building interactive dashboards and reports, with features like drag-and-drop functionality, data blending, and custom calculations.

### Tableau Public

Tableau Public is a free version of Tableau Desktop that allows you to create and share visualizations online. While it has some limitations compared to Tableau Desktop, such as data connectivity options and file saving restrictions, it's a great option for learning Tableau and sharing your work with others.

### Tableau Online

Tableau Online is a cloud-based platform that allows you to publish, share, and collaborate on Tableau visualizations with others in your organization. It provides features for data security, collaboration, and access control, making it ideal for teams working on Tableau projects remotely.

## Getting Started with Tableau

### Beginner

At the beginner level in Tableau, you'll start by learning the basics of the software and its applications in data visualization. You'll explore fundamental concepts such as connecting to data sources, building basic visualizations, and creating simple dashboards.

- **Coursera Courses:**
  - Data Visualization and Communication with Tableau
- **YouTube Channels/Blogs:**

– Tableau Software YouTube Channel
- **Projects**
  – Dashboard Creation: Build a simple dashboard using Tableau to visualize key metrics and trends in your data.

## Intermediate

At the intermediate level in Tableau, you'll deepen your understanding of data visualization techniques and explore more advanced features of the software. You'll learn about topics such as calculated fields, parameters, and advanced chart types, allowing you to create more complex and insightful visualizations.

- **Coursera Courses:**
  – Creating Dashboards and Storytelling with Tableau
- **YouTube Channels/Blogs:**
  – Tableau Magic Blog
- **Projects**
  – Interactive Dashboards: Design an interactive dashboard with drill-down functionality to explore detailed data subsets.

## Advanced

At the advanced level in Tableau, you'll explore advanced data visualization techniques and learn how to leverage Tableau's more advanced features for complex data analysis tasks. You'll dive into topics such as dashboard design, interactive storytelling, and advanced analytics integration, enabling you to create sophisticated and impactful visualizations.

- **Coursera Courses:** -Advanced Tableau Techniques
- **YouTube Channels/Blogs:**
  – VizPainter Blog
- **Projects**
  – Predictive Analytics: Build a predictive model using Tableau's built-in forecasting capabilities and integrate it into a dashboard for real-time insights.