

ADVANCED Tableau

- What is Data Visualization and Why Tableau?
- Different products of Tableau
- Tableau Desktop Basics
- Making your Data Ready

Creating Your First Visualizations and Dashboard

- Connecting to data in Access
- Foundations for building visualizations
- Visualizing data
- Bar charts
- Extending bar charts for deeper analysis
- Line charts
- Extending line charts for deeper analysis
- Geographic visualizations
- Filled maps
- Symbol maps
- Using Show Me
- Bringing everything together in a dashboard



- Building your dashboard

Working with Data in Tableau

- The Tableau paradigm
- A simple example
- Connecting to data
- Connecting to data in a file
- Connecting to data on a server
- Connecting to data in the cloud
- Shortcuts for connecting to data
- Working with extracts instead of live connections
- Creating extracts
- Using extracts
- Performance
- Portability and security
- When to use an extract
- Metadata and sharing data source connections
- Customizing a data source

- Sharing a data source
- An example of customizing and sharing a connection
- Joins and blends
- Joining tables
- Blending data sources
- A blending example
- Filtering data
- Filtering discrete (blue) fields
- Filtering continuous (green) fields
- Filtering dates
- Other filtering options

Moving from Foundational to Advanced Visualizations

- Comparing values across different dimensions
- Bar charts
- Bar chart variations
- Bullet charts – showing progress toward a goal
- The bar-in-bar chart

- Highlighting a single category
- Visualizing dates and times
- The built-in date hierarchy
- Variations in date and time visualizations
- Gantt charts
- Relating parts of the data to the whole
- Stacked bars
- Treemaps
- Area charts
- Pie charts
- Visualizing distributions
- Circle charts
- Jittering
- Box and whisker plots
- Histograms
- Visualizing multiple axes to compare different measures
- Scatterplots
- Dual Axis

- Combination charts

Using Row-level and Aggregate Calculations

- Creating and editing calculations
- Three levels of calculation
- A row-level example
- An aggregate-level example
- Row level or aggregate – why does it matter?
- Parameters
- Creating parameters
- Practical examples of calculations and parameters
- Fixing data issues
- Extending the data
- Enhancing user experience, analysis, and visualizations
- Achieving flexibility with data blends
- Ad hoc calculations
- Performance considerations

Table Calculations

- An overview of table calculations
- Creating and editing table calculations
- Quick table calculations
- Scope and direction
- Working with scope and direction
- Addressing and partitioning
- Advanced addressing and partitioning
- Advanced table calculations
- Practical examples
- Moving Average
- Ranking within higher levels
- Late filtering
- Last occurrence

Formatting a Visualization to Look Great and Work Well

- Formatting considerations
- How formatting works in Tableau
- Worksheet-level formatting

- Field-level formatting
- Additional formatting options
- Adding value to visualizations
- Tooltips

Telling a Data Story with Dashboards

- Dashboard objectives
- Example – is least profitable always unprofitable?
- Building the views
- Creating the dashboard framework
- Implementing actions to tell the story
- How actions work
- Filter actions
- Highlight actions
- URL actions
- Example – a regional scorecard
- Story points



Adding Value to Analysis – Trends, Distributions and Forecasting

- Trends
- Customizing trend lines
- Trend models
- Analyzing trend models
- Distributions
- Forecasting

Making Data Work for You

- Structuring data for Tableau
- Good structure – tall and narrow instead of short and wide
- Good structure – star schemas (data mart / data warehouse)
- Dealing with data structure issues
- Restructuring data in Tableau connections
- Working with poorly shaped data in visualizations
- Working with an incorrect level of detail
- An overview of advanced fixes for data problems

Administration

- Create Projects and Groups



- Assign Permissions to Projects
- Licensing
- Data Connections
- Effects of different permissions
- Grouping users
- Server security

Additional Information

- Material distribution
- Interview questions & Answers
- Scenarios distribution for practice
- Live Projects