

Introduction to Data Visualization

Introduction to Dashboarding

TABLEAU

Module 1: Tableau Introduction

- What is Business Intelligence
- Tableau Role in BI
- Why Tableau?
- Compare with Other Tools

Module 2: Products of Tableau

- Tableau Desktop
- Tableau Server
- Tableau Public
- Tableau Reader

Module 3: Getting Started

- What is Tableau?
- Tableau Architecture
- What is My Tableau Repository?
- Tableau Interface

Module 4: Data Connections

- Data Model
- Connecting to Data
- Introduction to data source concepts
- Types of Joins
- Cross database joins
- Data Interpreter
- Union
- Custom SQL

Module 5: Types of Extensions and Connection types

- .twbx
- .twb
- .tde
- .twbx vs .twb
- Live vs Extract

Module 6: Worksheet Details

Dimensions and Measures

Data Types and properties

Geographic role

Marks Card

Using Show Me

Module 7: Tableau Generated Fields

- Measure Names
- Measure Values
- Number of records
- Longitude
- Latitude

Module 8: Show ME Charts

- Text Table chart
- Heat Map
- Tree Map
- Highlight table
- Symbol map
- Filled map
- Pie chart
- Bar chart
- Stacked bar chart
- Side by side bar chart
- Circle view
- Side by side circle view
- Line chart with discrete and continuous date
- Discrete vs Continuous
- Area chart with discrete and continuous date
- Dual combination
- Dual lines chart
- Scatterplot
- Histogram
- Box and whisker
- Bullet graph
- Packed bubble

Module 9: Calculations and Parameters

- Calculated Fields
- Parameters
- Customized Calculating Fields
- Functions – Logical, Date and String functions
- Working with aggregate versus disaggregate data
- Usage of Logical conditions
- Inshelves Calculations
- Level of detail expression

Module 10: Table Calculation

- Explain scope and direction
- % total
- Running calculations
- Moving Average
- Percent Difference

Module 11: Advance Charts

- Waterfall Chart
- Donut Chart
- Candlestick chart
- Map with Pie
- Custom Shape Chart
- Dual combination chart without using date field
- Word cloud
- Quadrant Chart
- Advance text table with up and down arrow
- Waffel Chart

Module 12: Polygon Charts

- Venn Diagram
- Funnel Chart

Module 13: Working with Axis charts and Analysis

- Blended Axis
- Dual Axis
- Edit axis
- Totals & Subtotals

Module 14: Modifying Data Source and Renaming Fields

- Replacing data source
- Edit Alias of fields
- Custom Split

Module 15: Types of Filters

- Data source filter
- Extract filter
- Dimension filter
- Normal filter
- Quick Filter
- Context filters
- Top/Bottom N
- Highlighter
- Sets

Module 16: Key Functionalities

- Sorting
- Groups
- Bins
- Hierarchy
- Combined fields

Module 17: Analytics Pane

- Reference Line
- Reference Band
- Distribution Band
- Constant Line
- Average line
- Trend Line
- Forecasting
- Clustering

Module 18: Background Images

- Adding background images
- Changing image based on filter

Module 19: Sharing and Publishing

- Publishing into Tableau Server
- Authorization
- Tableau Reader

- Export as pdf, image

Module 20: Security

- Adding Row level security
- Username function

Module 21: Data Blending

- What is Data Blending?
- Difference between blending and joins
- When to use blending vs joins

Module 22: Tableau Server

- Adding user
- Setting permission
- Groups
- Sites
- Projects
- Scheduling Refresh

Module 23: Building Interactive Dashboards

- Combining multiple visualizations into a dashboard (overview)
- Tiled vs Floating
- Dashboard Object
- Actions
 - URL
 - Filter
 - Highlight

2 LIVE PROJECTS