

## Advanced Tableau Development

16 hours

### Course Overview:

This course is an advanced program for Tableau developers, intended to teach and exercise commonly used high-level functionality and features. The course is based upon years of experience in real business situations, and covers a multitude of scenarios encountered while modeling data, creating advanced visualizations, and designing dashboards and interactivity.

### At the end of this course, you will be able to:

- Create advanced data sources based on relationships, and manipulate your data to support powerful analytics.
- Use Tableau calculations of all types in order to convert data into information.
- Design and implement effective visualizations and interactions within Tableau dashboards.
- Improve your project's responsiveness and performance.

### Who Should Attend:

Developers and analysts with significant experience using Tableau desktop or Tableau Web Edit to create reports and dashboards, who would like to enhance their skills.

### Required Skills:

This is an advanced-level class. Students should have at least one year of experience with Tableau development.

### Course Contents:

- Introduction
- Data Sources
  - When (and how) to use relationships and not joins
  - Common pitfalls and mistakes
  - The problem – and opportunity – with dates
  - Blending is still useful
- Advanced Calculations
  - Date functions
    - Using parameters
    - Gantt charts
  - Table calculations
    - The many uses of...
    - How to create a Trellis chart
  - Level of Detail
    - Cohors analysis of various types
    - Nested LOD

- Advanced charts
  - The Axis
    - Using dual axes
    - The dummy axis
    - Reference lines and their uses
    - Jittering
  - Special chart types
    - Donut
    - Waterfall
    - Radial
    - Calendar
    - Whatever you want...
  - Maps
    - Multiple layers
    - Mapping routes
    - Distance functions
    - Custom background maps
    - The dummy map
- Dashboards
  - Design
    - Using containers
    - Advanced formatting
    - The show/hide button
    - Device layouts
  - Interactivity
    - Combining actions
    - Worksheet switching
    - Creating tabs
- Performance
  - Monitoring and analyzing
  - Improving load times
- Mini tips
  - Custom formatting
    - Shapes
    - Color pallettes
    - Field formats
  - Using separate legends
  - The INDEX function
  - Manipulating totals
  - Table coloring
  - and more...