

Getting Started with TIBCO Spotfire

Learning Objective:

Learn to install Spotfire Server and prepare the Spotfire Server Database.

Topics:

- Install and configure Spotfire Serve
- Deploy the TIBCO Spotfire Server Distribution

Hands-on:

Installing and configuring Spotfire Server.

Validating the TIBCO Spotfire Installation

Learning Objective: Learn to install Spotfire Professional Client and import demo data.

Topics:

- Stage the Demo Data
- Install the Spotfire Professional Client
- Import the Demo Data
- Open a Demo Data Analysis File
- Apply Patches to the Spotfire Server

Hands-on: Install Spotfire Professional Client and import/open demo data.

Dealing with Data

Learning Objective: Learn how to add data to Spotfire from files, link data in Spotfire and connect to a database.

Topics:

- Adding data to Spotfire from files
- Key data concept – basic row/column structure of a data table
- Key data concept – data types
- Using the inbuilt filters in Spotfire
- Key data concept – data relationships
- How to link data in Spotfire
- Connecting to a database
- Key data concept – data queries

Hands-on: Add data to TIBCO Spotfire and link data to Spotfire database.

Visualizing Data

Learning Objective: Learn to visualize data in tabular form, line charts, pi charts, scatter plots and so on.

Topics:

- Displaying information quickly in tabular form
- Enriching your visualizations with color categorization
- Visualizing categorical information using bar charts
- Dividing a visualization across a trellis grid
- Key Spotfire concept – marking
- Visualizing trends using line charts
- Visualizing proportions using pie charts
- Visualizing relationships using scatter plots
- Visualizing hierarchical relationships using treemaps
- Key Spotfire concept – filters
- Enhancing tabular presentations using graphical tables

Hands-on: Implement operations to display information in tabular form, visualize categorical information using bar charts, visualize data using line charts, pie charts, scatter plots, treemaps etc.

Analyzing data

Learning Objective: Learn how to analyse data using text areas, increase interactivity, customize filter panel and annotate data using tags and lists.

Topics:

- Framing your analysis using text areas
- Key Spotfire concept – document properties
- Increasing interactivity using property controls
- Providing summary information at a glance
- Customizing the filter panel
- Getting details of marked items
- Annotating data using tags and lists
- Creating analysis snapshots using bookmarks

Hands-on: Implement operations in TIBCO Spotfire to analyse data using text areas, customize filter panel and annotate data using tags and lists.

TIBCO Spotfire Base Deployment and Automation Services

Learning Objective: Get introduced to components and architecture of Spotfire. Learn about administration manager and various other automation services.

Topics:

- An overview of Spotfire components and architecture
- A quick guide to Administration Manager
- Using the Library Administration interface
- A quick tour of Information Designer
- An overview of Spotfire Analyst (formerly Professional Client)
- An overview of Spotfire Consumer (formerly web player)
- An overview of Spotfire Business Author (new with Version 6.5)
- Automating tasks using Automation Services
- An overview of system monitoring tools

Hands-on: Walk through the components and architecture of Spotfire, Administration Manager, Library Administration interface. Automate tasks using Automation Services.

Advanced Data Preparation

Learning Objective: Learn to transform raw data into suitable one for further processing. Learn to use various methods for data manipulation and analysis.

Topics:

- Creating metrics using calculated columns
- Using the Data Panel tool
- Key data concept – dimensional hierarchies
- Adding dimensionality to your data by defining hierarchies
- Categorizing continuous numerical data using binning functions
- Slicing and dicing data using hierarchy nodes
- Merging data from multiple sources
- Key data concept – narrow tables versus wide tables
- Transforming data structure through pivots and unpivots
- Using Spotfire's Information Designer
- Optimizing complex data manipulations using in-database analytics

Hands-on: Implement data manipulation, data preparation & data transformation.

Advanced Visualization

Learning Objective: Learn the advanced techniques to visualize data.

Topics:

- Key Spotfire concept – difference between calculated columns and custom expressions
- Annotating visualizations with reference lines, fitted curves, and error bars

- Defining color rules and organizing document color schemes
- Slicing and dicing visualizations using hierarchy nodes
- Mashing up data from different tables in a single visualization
- How to create dynamic pivots using cross tables
- Visualizing categorical information and trends together in combination charts
- Visualizing statistical measures using box and whisker plots
- Summarizing statistical measures using summary tables
- Visualizing complex multidimensional data using heat maps
- Profiling your data using parallel coordinate plots
- Exporting and publishing data and visualizations

Hands-on: Implement advanced visualization techniques using Spotfire's Information Designer.

Location based Visualization

Learning Objective: Learn to create interesting map charts. Also, learn how to use map charts for non-geographic spatial analysis.

Topics:

- Creating background map layers
- Key Spotfire concept: map chart layers
- Key mapping concept – coordinate reference systems
- Using automatic geocoding to accurately position locations from your data on a map
- Incorporating and using a feature layer
- Adding Web Map Service data to a map chart
- Using the map chart for non-geographic spatial analysis

Hands-on: Implement location based visualization using map charts.