



## BR102

### Lesson 1: Calculated Columns

- Expressions Dialog
- Functions
- Binned Columns
- Hierarches

### Lesson 2A: Data Transformations

- Add table with pivot transformation
- Combining Tables: insert columns
- Add Data Tables
- Columns Matches

### Lesson 2B: Transformations Continued

- Combining Tables: insert rows
- Unpivot transformation
- Multi-step Transformation

### Lesson 2C: Data Panel

- Column categorizations
- Source view
- Replacing null values
- Split columns
- Unpivot

### Lesson 3: In Database vs In Memory

- In-Memory Data
  - Flat Files (Excel, Access, etc.)
  - Information Links in Spotfire Library
  - Databases
- In Database
- Cube Databases
- Data Table Relations



## Lesson 4: Bookmarks, Tags, Lists

- Creating and applying bookmarks
  - Special Bookmark
- Attaching tags
- Create, list and apply lists
  - List Logic

## Lesson 5: Visualizations Continued

### Lesson 5A: Heatmaps

- Visualization properties and capabilities
- Dendrograms

### Lesson 5B: Treemaps

- Hierarchies and hierarchy columns
- Visualization properties

### Lesson 5C: Waterfall Charts

- What is a Waterfall chart?
- Visualization properties and capabilities
- Data Distribution
- Comparison Circles
- Better than Bar Charts

### Lesson 5D: Box Plots

- What is a box plot?
  - Data distribution
- Reference points
- Comparison Circles
- Benchmarks, statistics table and other visualization properties

## Lesson 6: Map Charts

- Positioning Data



- Coordinate Columns
- Geocoding
- Map Layers
  - Feature Layers: SHP or WKB
  - WMS layers
  - TMS layers
  - Marker Layers: your data with appropriate geocoding elements
- Zoom Visibility and Auto Zoom
- Marking Mode vs. Panning Mode
- Color, shape, size, labels, pies
- Navigation Options and Rotation

#### Lesson 7: 3D Scatter Plot

- Visualization properties

#### Lesson 8: Aggregations & Expression Shortcuts

- Aggregation types
- Expression shortcuts
- Error Bars

#### **About Blue River Analytics:**

Blue River Analytics makes our customers smarter. Utilizing deep expertise in the energy industry and TIBCO Spotfire, we create easy-to-use applications for visual and predictive analytics, enabling our customers to make faster, smarter decisions.

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