tableau 8 the official guide

george peck



Conceived by Paul Sochan

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Tableau 8:The Official Guide

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George Peck Author@TableauBook.com July 2013 This page has been intentionally left blank

About the Media Included with This Book

Tableau 8: The Official Guide includes a companion CD that features videos by the author demonstrating key concepts, as well as sample Tableau 8 workbooks that may be opened directly in Tableau 8.

Videos

To view related videos, insert the included CD into your computer's CD drive. If the disc does not auto-start, perform the following steps:

- **1.** Click the Start button.
- 2. View the list of drives.
 - In Windows XP, select My Computer.
 - In Windows Vista/7, select Computer.
- **3.** Right-click the CD drive icon.
- **4.** View the files on the CD.
 - In XP/Vista, from the drop-down list, select Explore.
 - In 7, from the drop-down list, select Open.
- 5. Double-click the icon of the Tableau_8 or Tableau_8.exe file.

Sample Workbooks

You may copy workbooks in the CD Sample Workbooks folder to your hard drive, or open them directly from the CD drive (you won't be able to save changes to the CD drive, however).

All sample workbooks are Tableau Packaged Workbook (.twbx) files. You may open these in Tableau 8 without regard to original data source locations. All data sources, necessary images, custom geocoding, and so forth are included in the packaged workbook. If you wish to expand the content of the packaged workbook, right-click it in Windows Explorer and choose Unpackage. You may also rename the file extension from .twbx to .zip and use a standard ZIP utility to unzip the packaged workbook contents.

Look for any updated or corrected information at www.TableauBook.com. Questions about the content of these sample workbooks may be e-mailed to Author@TableauBook.com.

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If you purchased the ebook edition of *Tableau 8: The Official Guide*, you can download all of the example material and video included on the print book CD from the McGraw-Hill Professional Media Center. Instructions for downloading are included at the end of the ebook table of contents.

CHAPTER

Introduction to Tableau 8

While social networking, cloud computing, and mobility are three of the biggest growth segments of Information Technology in the second decade of the 2000s, Business Intelligence is no slouch. Demand for new and innovative ways for organizations to view the ever-increasing amount of available data continues to grow. *Data Discovery* is a newer niche area of Business Intelligence that concentrates on visual and graphical analytics, as opposed to more traditional text-based reporting. And while an Internet search on the word *dashboard* might have returned a large number of results relating to part of a car interior several years ago, initial search returns now largely relate to some form of computer-based data visualization.

Tableau fits squarely into this Data Discovery/dashboard realm. While standard Business Intelligence tools for corporate and enterprise reporting abound, newer visualization tools, such as Tableau, are just coming of age. Now in its eighth major release, Tableau continues to sit at the leading edge of this growing segment of Information Technology.

Note Open the Chapter 1 - First Workbook.twbx file in Tableau to see examples that relate to this chapter.

What Is Tableau?

Tableau Software has its roots in the Stanford University Computer Science department, in a Department of Defense–sponsored research project aimed at increasing people's ability to rapidly analyze data. Chris Stolte, a Ph.D. candidate, was researching visualization techniques for exploring relational databases and data cubes. Stolte's Ph.D. advisor, Professor Pat Hanrahan, a founding member of Pixar and chief architect for Pixar's RenderMan, was the worldwide expert in the science of computer graphics. Chris, Pat, and a team of Stanford Ph.D.s realized that computer graphics could deliver huge gains in people's ability to understand databases. Their invention VizQLTM brought together these two computer science disciplines for the first time. VizQL lets people analyze data just by building drag-and-drop pictures of what they want to see. With Christian Chabot on board as CEO, the company was spun out of Stanford in 2003. While Tableau 8 improves on the previous seven major releases of the software, the core approach to visual design remains the same: connect to a desired data source, and drag various data fields to desired parts of the Tableau screen. The result is a basic visualization that can then be enhanced and modified by dragging additional data fields to different destinations in the workspace. Beyond this basic visualization approach, Tableau's *Show Me* feature allows quick choices of predefined visualizations by just selecting relevant data fields and clicking a thumbnail. For more advanced requirements, Tableau features a complete formula language, as well as more robust data connection options.

When you first start Tableau, you are presented with the *Start Page*. The largest portion of the Start Page is reserved for thumbnails of recent workbooks you have used. Simply click on any one of these to open the workbook (like Microsoft Excel, Tableau's format for storing data on your disk drive is in a *workbook*, with a .TWB or .TWBX file extension). You may also open sample workbooks included with Tableau 8 by clicking the desired thumbnail at the bottom of the Start Page.



Open sample workbooks included with Tableau

If you want to create a new workbook, you must first connect to a *data source* (types of data sources Tableau works with include industry standard databases such as Oracle or Microsoft SQL Server, Microsoft Excel spreadsheets, text files, and so forth). Unlike

spreadsheet or word processing programs, Tableau must connect to some existing data before you can create a visualization. Certain data sources, known as *saved data sources*, will appear on the left side of the Start Page. These "pointers" to an existing data source can be selected by simply clicking them. If you want to connect to a different data source, click the Connect to Data tab (the tab with the "barrel" icon) in the upper right, or click Connect to Data in the upper left under the Data section. Once you've connected to a data source, a new workspace will appear where you can drag and drop desired data fields.

Note Detailed discussion of data connections can be found in Chapter 3.

Tableau User Interface

Once you've connected to data, a new worksheet, labeled Sheet 1, will appear. You'll

notice that Tableau shares the "multiple worksheets within a workbook" paradigm of Microsoft Excel. A workbook can contain one or more worksheets, with each worksheet denoted by a tab at the bottom of the screen. As with most other standard Microsoft Windows programs, you'll see a series of drop-down menus and a toolbar. Also, many Tableau functions can be selected from pop-up context menus that will appear when you right-click with your mouse.

The left side of a Tableau worksheet contains the Data window, which breaks down data fields in your data source into dimensions and measures. You'll find a blank visualization containing a single column, row, and center area, each labeled "Drop field here." The remainder of the worksheet consists of a series of shelves and cards, where you can drag fields to control certain behavior and the appearance of your worksheet.

The Data Window

Since all Tableau visualizations start with connection to a data source, the first area you'll need to become familiar with is the *Data window*. Fields from your data source appear here, ready for you to drag and drop to relevant parts of the worksheet. In particular, the Data window is broken down into two sub-windows: Dimensions and Measures. *Dimensions* are categorical fields that tie data together into related groups. *Measures* are numeric fields that are aggregated as sums, averages, and so forth, for each occurrence of the grouped dimension. For example, if you want to create a bar chart showing total sales for each region, the region dimension will be used to create a separate bar for each region, with the size of the bar being determined by the sum of the sales measure.



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Note *More details on the Data window, including how to reorganize dimensions and measures, along with detailed discussion of various data types, are available in Chapter 3.*

Shelves and Cards

Once you've connected to data and evaluated available dimensions and measures in the Data window, you'll need to decide where to drag desired dimensions and measures. You may choose to drag directly on the visualization area where prompted to "Drop field here." You may also choose to drop on a particular shelf or card. To create a vertical bar chart using the sales-by-region example discussed previously, you would simply drag the region dimension to the top column "Drop field here" area, or the Columns shelf. You would then drag the sales measure to the left of the region columns in the visualization, or the Rows shelf.



The term *shelf* is unique to Tableau, and refers to a particular part of the worksheet where you can drag and drop a field from the Data window. The most common shelves are Columns and Rows, as dimensions or measures dropped on these shelves determine the basic layout of your visualization. However, other shelves are used frequently as well. The Filters shelf will narrow down data included in the visualization based on a field that you drag to it. The Pages shelf acts as a modified Filters shelf, allowing you to "page" through values within a dimension or measure to quickly see changes in data.

Some parts of the workspace allow more than one function to be modified within the same general area. These are referred to as *cards* (also a term particular to Tableau).

In particular, the *Marks card* (which has been completely redesigned in Tableau 8) is a single area of the workspace that contains different parts where you can drag and drop fields. For example, you can change the size of marks of your visualization by dropping a field onto the Size icon on the Marks card. You can also change colors by dropping a field on the Color icon on the Marks card. Once you've dropped fields on the Marks card, the fields will appear below the original icons where you dropped them. You'll be able to tell which part of the Marks card the field was dropped on by the associated icon appearing to the field's left.



Note It's easy to confuse the terms "shelf" and "card" in Tableau. For example, the Pages and Filter shelves include a "Hide Card" option on their pop-up context menus. And the Rows and Columns shelves include both "Clear Shelf" and "Hide Card" options on their context menus.

Basic Tableau Design Flow

Consider the basic bar chart illustrated in Figure 1-1. This is a fairly meaningful visualization, illustrating a comparison of sales by region, broken down by department. Notice the various portions of the worksheet discussed previously, such as the Data window, the Columns and Rows shelves, the Filters shelf, and the Marks card. This visualization was created with a few simple steps.

As is always the case with a new worksheet, a data source must be chosen. In this case, the "Sample - Superstore - English (Extract)" saved data source that ships with Tableau 8 is selected. The resulting Data window breaks down available fields into dimensions (that categorize data) and measures (that are aggregated as sums, averages, and so forth).

The illustrated vertical bar chart requires a dimension to appear on the Columns shelf and a measure to appear on the Rows shelf. Re-creating this chart involves simply dragging Region from the Dimensions portion of the Data window to the Columns shelf. This will create one "column," or bar, for each dimension value, or each region.



Figure 1-1 Basic Tableau visualization

Then the measure used to determine the height of the bar (in this case, Sales) is dragged to the Rows shelf. By default, Tableau aggregates this measure as a sum, representing total sales as a bar.

Note You may also begin this bar chart by using Tableau double-click options. If you initially double-click the desired measure, it will automatically be placed on the Rows shelf. Then the desired dimension can be double-clicked, which will place it on the Columns shelf, resulting in the same bar chart. Note that the order in which you double-click is significant. If you double-click on the dimension first and the measure second, the result will be a text table and not a bar chart.

As the data in the sample data source includes international customers, a large International bar initially appears. As the desire is to only include the four regions of the United States, data must be *filtered* to include only U.S. sales. This is accomplished by dragging the Country/Region dimension to the Filters shelf. The resulting dialog box allows only United States data to be selected.

Filter [Country / Region]	
General Wildcard Condition Top	
Select from List ○ Custom Value List ○ Use All	≡
Enter Text to Search	
Russian Federation	
📃 Saudi Arabia	
Singapore	
South Africa	
🔲 Spain	
Sweden	
Switzerland	
Thailand	
Turkey	
Ukraine	=
United Kingdom	
United States of America	-
All None	Exclude
Summary	
Field: [Country / Region]	
Selection: Selected 1 of 50 values	
Wildcard: All	
Condition: None	
Limit: None	
Reset OK Cancel	Apply

Notice that the region bars are broken down into three different colors (this is often referred to as a *stacked* bar chart). This is accomplished by dragging the Department dimension onto the Color icon on the Marks card. Note that this field now appears below the icons on the Marks card with a corresponding icon indicating that it was dragged onto Color. The resulting color legend appears on its own card.

To help annotate the values represented by each bar stack, the Sales measure is dropped onto the Label icon on the Marks card. The resulting sales amount appears on each stacked bar. As with the Department dimension, the Sales measure is aggregated to a sum and appears below the icons on the Marks card with the corresponding label icon appearing to the left.

You may notice that the regions are not appearing in alphabetical order (which is default behavior when initially creating a visualization). Instead, they are appearing in high to low order, based on sum of Sales. While there are several ways to accomplish this, the Sort Descending toolbar button is a very quick way to sort a visualization on its primary value.

And, last but not least, don't forget to give your worksheet a meaningful name. As with Microsoft Excel, Tableau's default sheet names are the word "Sheet" followed by a number. This is hardly meaningful when dealing with a workbook containing many worksheets. Just right-click on the sheet tab at the bottom of the screen and choose

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Rename Sheet from the context menu. Or just double-click on the tab and type in the desired sheet name. A nifty Tableau 8 new feature is the ability to color worksheet tabs. Just right-click on the tab and choose Color from the context menu and choose one of several colors to assign to the tab.

Tip *Make sure you save Tableau workbooks early and often. Unlike some other applications, there is no auto-save or recovery option in Tableau. If the power fails, or your computer experiences a freeze or hang and you must reboot, you will lose any unsaved work.*



CHAPTER

Basic Visualization Design

ne of the compelling benefits of Tableau is how easily and quickly you can visualize your data. By providing a combination of automatic visual best practices, along with quick, shortcut approaches to visual design, you can create meaningful Tableau visuals in, literally, minutes. And, the more familiar you become with Tableau, the quicker it becomes to create more sophisticated and advanced visuals as well.

One of the first choices you'll make for many visualizations is which basic design method to use. The first option, briefly introduced in Chapter 1, simply involves dragging fields to shelves or double-clicking fields in the Data window. The second option, *Show Me*, provides a quick way of choosing from a list of predefined visualization types after selecting desired fields in the Data window.

Note Open the Chapter 2 - Basic Visualizations.twbx file in Tableau to see examples that relate to this chapter.

Using Show Me

Any time you're editing a new or existing worksheet, you'll notice the Show Me tab at the upper right of the screen. Clicking that tab will expand the Show Me dialog box (to close the Show Me dialog box, just click the title bar of the dialog again). Show Me will display a series of thumbnail images representing the different types of charts you can create with just a few clicks. You can use Show Me anytime you want—whether you've already created an existing visualization or not. If you've already created a chart, Show Me will replace the existing chart with the type you choose in the Show Me dialog box (and, you can undo using the toolbar button or CTRL-Z key combination if you want to