



# **Tableau Desktop 10 Qualified Associate**

## Lesson 01—Exploring Tableau Interface

**TABLEAU  
DESKTOP 10**



# What's In It For Me

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

- Describe the components and terminologies of Tableau
- Describe Tableau Desktop Public edition, view, and data pages
- Explain the fields generated by Tableau automatically



# Quick Recap: Why Tableau?

Meet Genelia, a data scientist. She wants to analyze the US employment by state as part of her new project.



What are the possible challenges that she might face?

She needs:

- To handle a huge amount of data (big data)
- To visualize the data
- To generate reports in the correct format

# Quick Recap: Why Tableau?

Genelia's colleague suggested her to use Tableau!

- Tableau is a leading
  - business intelligence,
  - analytics, and
  - visualization application tool.
- It helps to analyze data to learn and make better decisions.
- It generates quick and correct reports on visualizations, which can be customized according to our needs.



Tableau visualization on US employment

# Download Tableau Desktop Public

Tableau Public latest version (10.x) can be downloaded from:





# Introduction to Tableau Interface

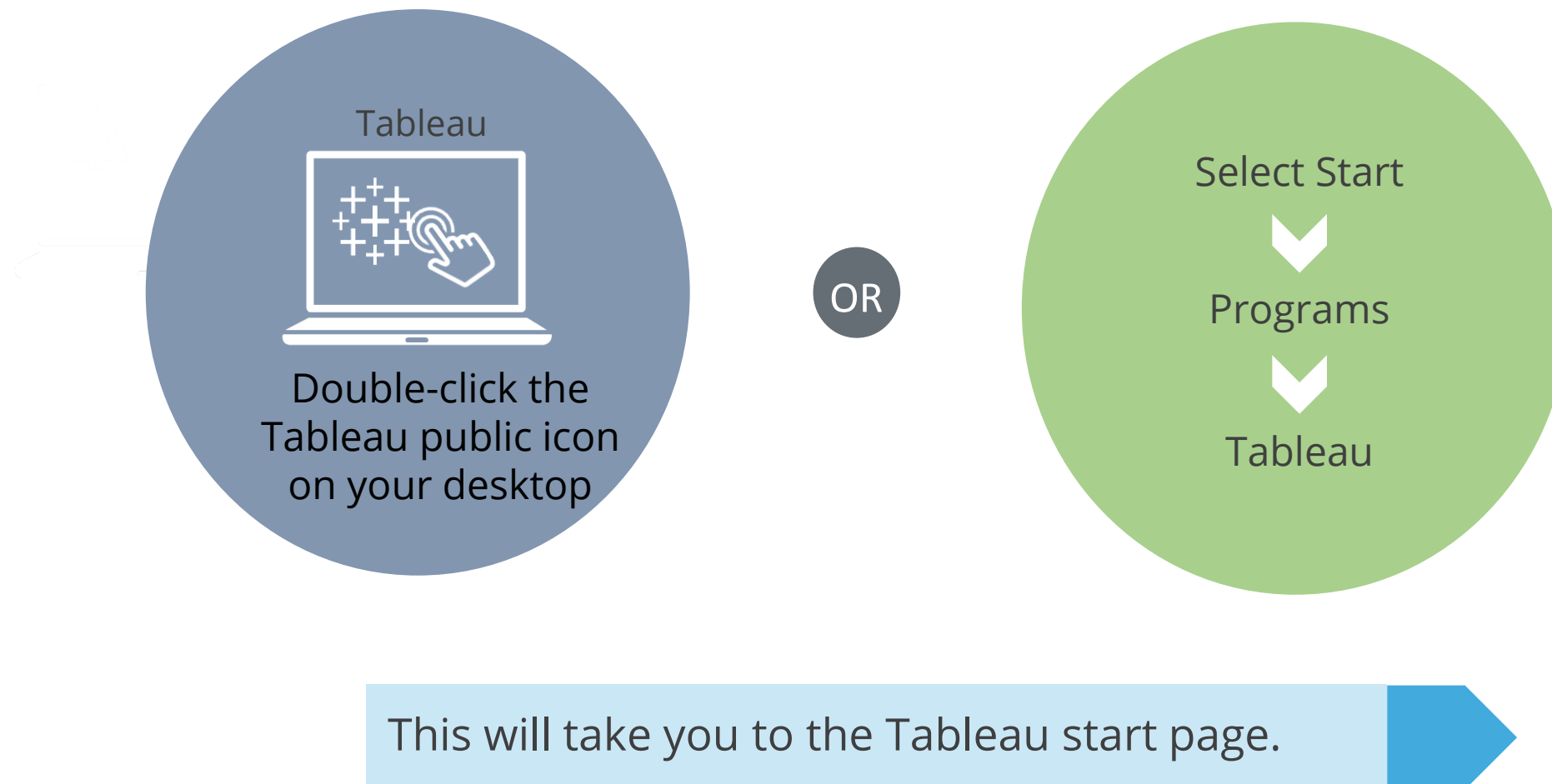
## Topic 1: Getting Started with Tableau Application

- Opening Tableau Public Application
- Exploring the start page
- Exploring the data source page
- Exploring Tableau workspace
- Tableau files and folders

# Getting Started with Tableau Application

## OPENING TABLEAU APPLICATION

One of the following methods can be used to open the Tableau Public application:



Opening  
Tableau  
Application

Exploring  
the Start  
Page

Exploring  
the Data  
Source Page

Exploring  
Tableau  
Workspace

Tableau  
Files and  
Folders



# Getting Started with Tableau Application

## EXPLORING THE START PAGE

Opening  
Tableau  
Application

Exploring  
the Start  
Page

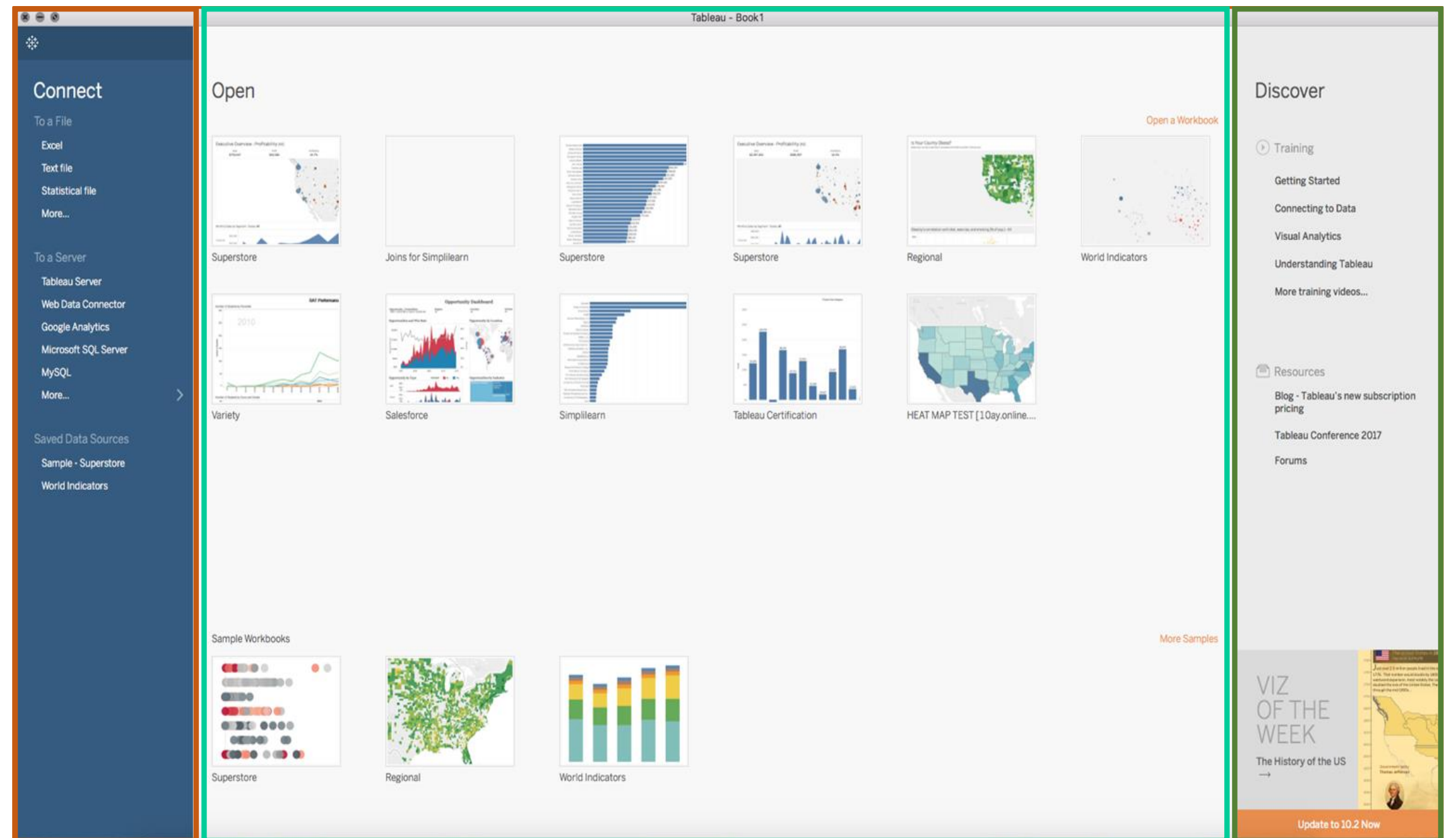
Exploring  
the Data  
Source Page

Exploring  
Tableau  
Workspace

Tableau  
Files and  
Folders

The start page in Tableau Public is a central location. Through this, you can:

- **Connect** to your data.
- **Access (through open section)** most recently used workbooks.
- **Discover** content produced by the Tableau community.





# Getting Started with Tableau Application

## EXPLORING THE START PAGE: CONNECT SECTION

Opening  
Tableau  
Application

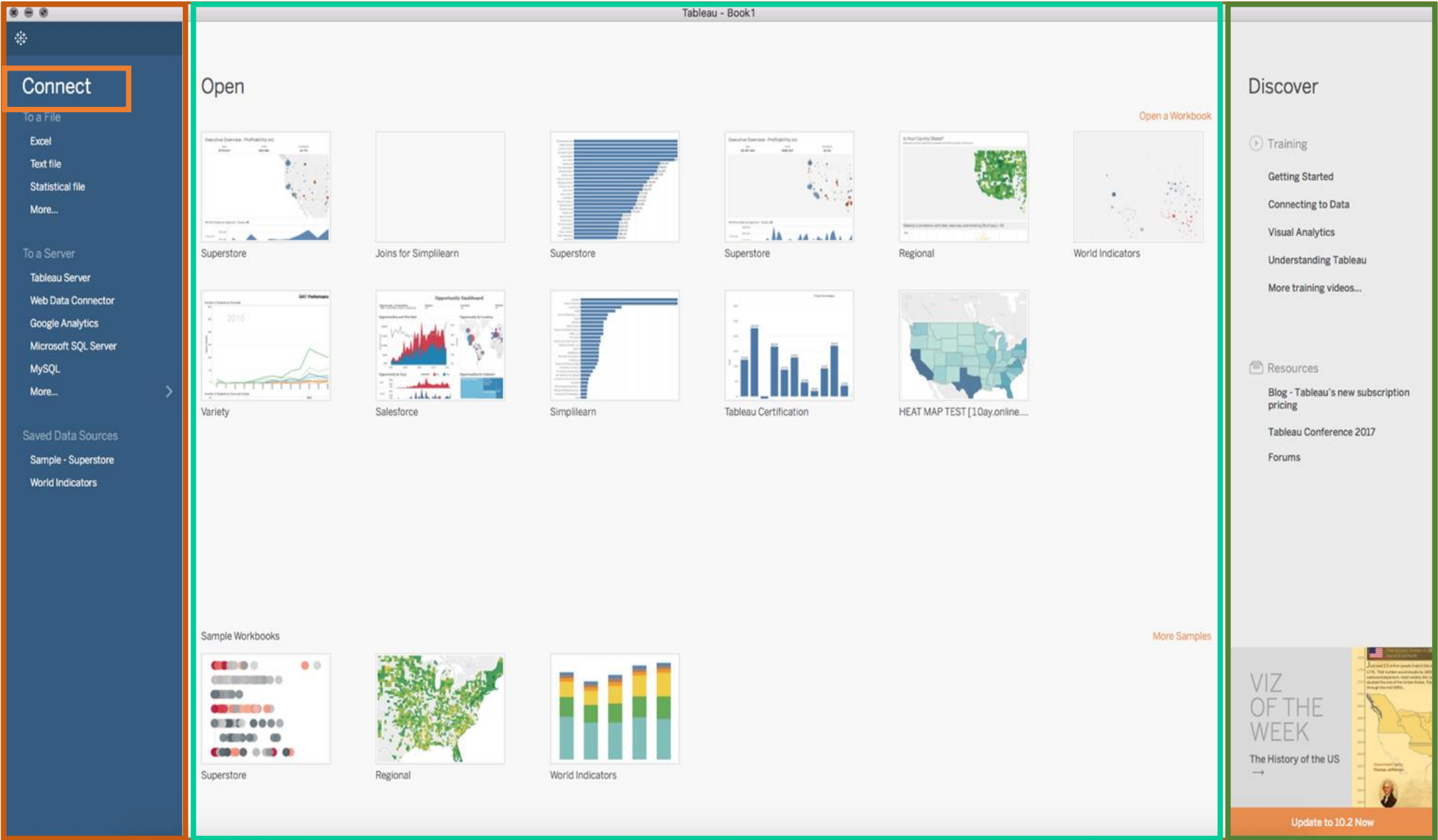
Exploring  
the Start  
Page

Exploring  
the Data  
Source Page

Exploring  
Tableau  
Workspace

Tableau  
Files and  
Folders

Connect section lists different connectivity options (to a file, server, or saved data sources) offered by Tableau.



# Getting Started with Tableau Application

## EXPLORING THE START PAGE: OPEN SECTION

Opening  
Tableau  
Application

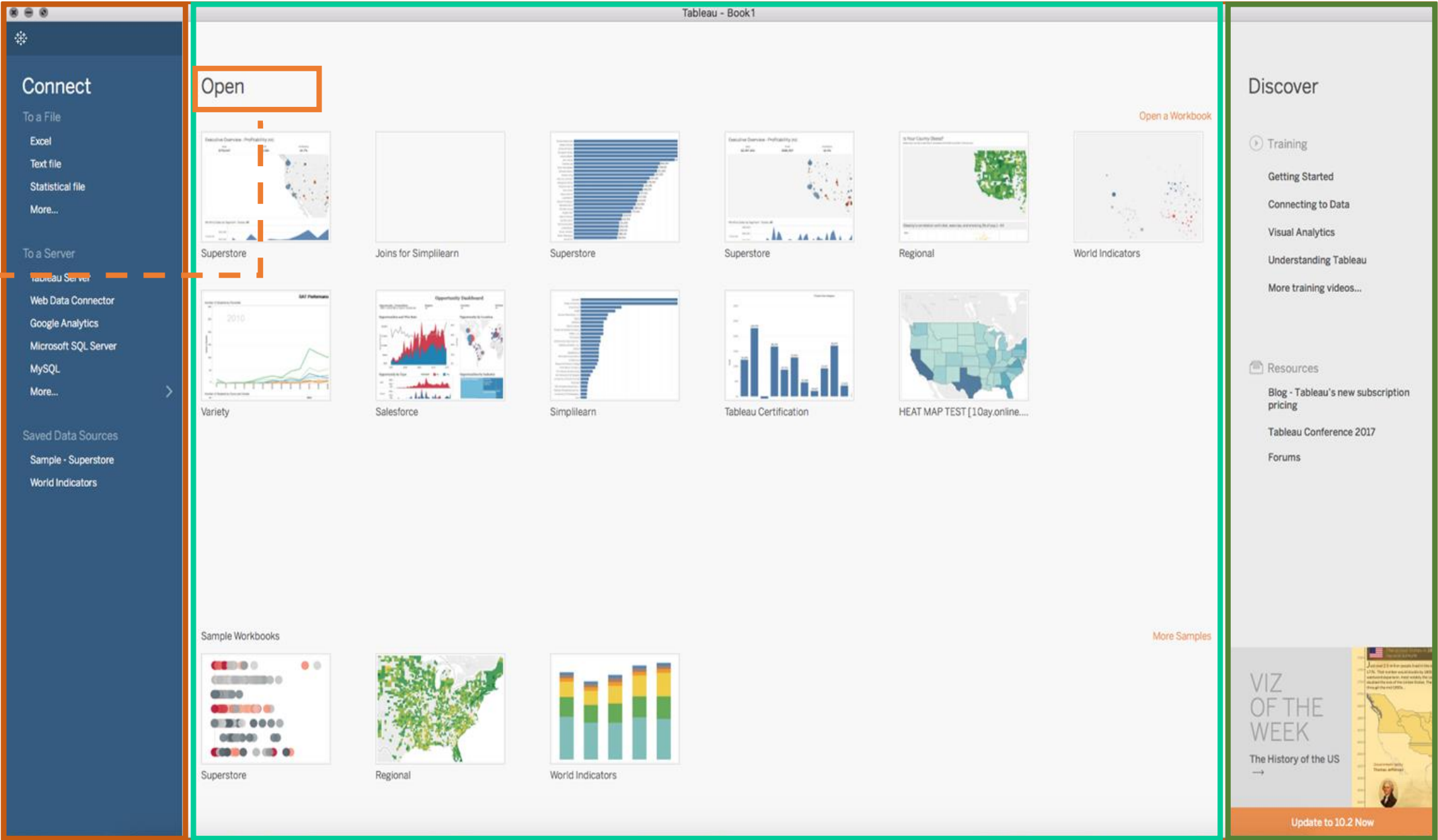
Exploring  
the Start  
Page

Exploring  
the Data  
Source Page

Exploring  
Tableau  
Workspace

Tableau  
Files and  
Folders

The open section provides access to recently opened or sample workbooks.



# Getting Started with Tableau Application

## EXPLORING THE START PAGE: DISCOVER SECTION

Opening  
Tableau  
Application

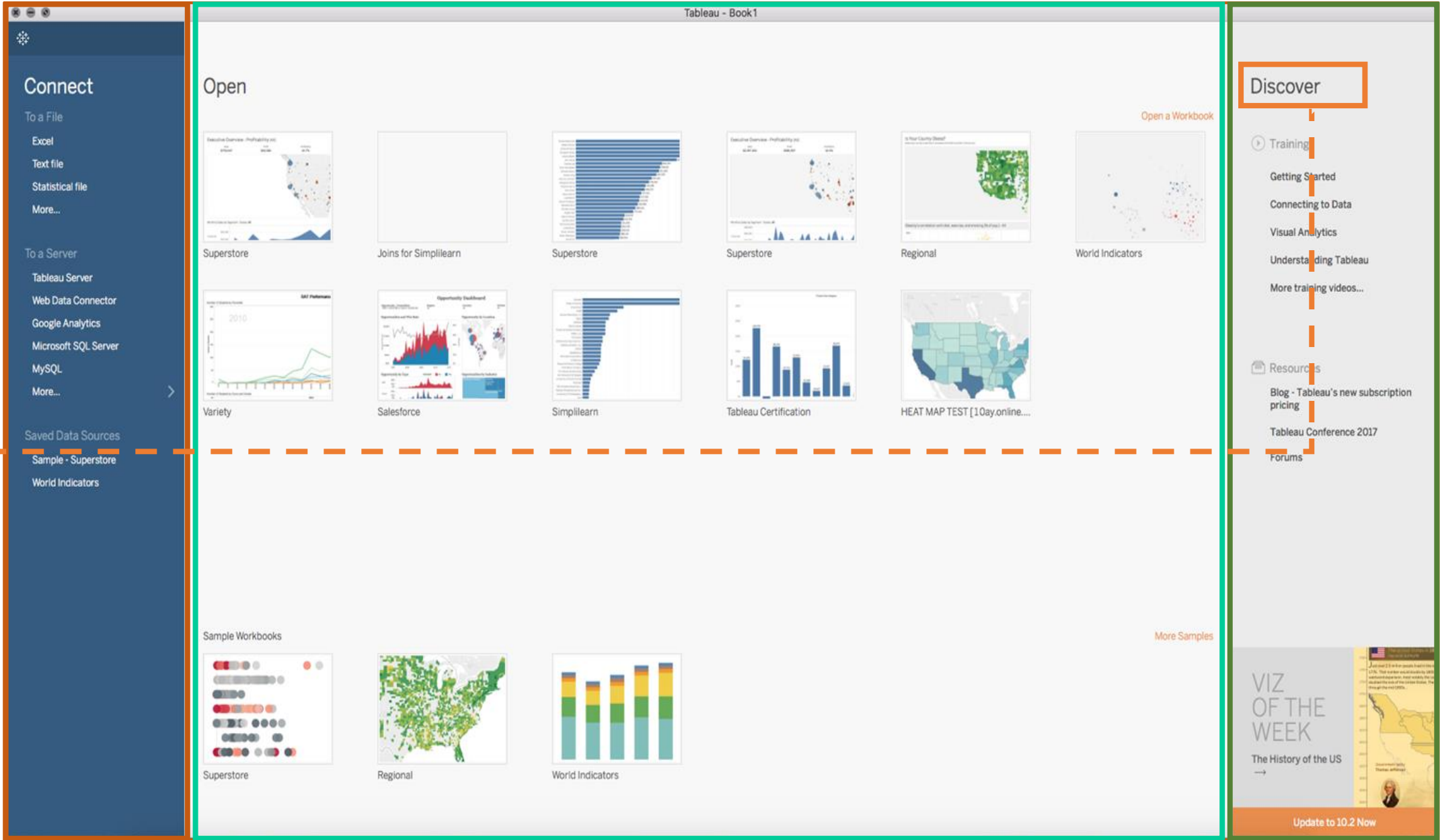
Exploring  
the Start  
Page

Exploring  
the Data  
Source Page

Exploring  
Tableau  
Workspace

Tableau  
Files and  
Folders

Discover section has links to Tableau community and helps users access training content, videos, tutorials, and latest visualizations.

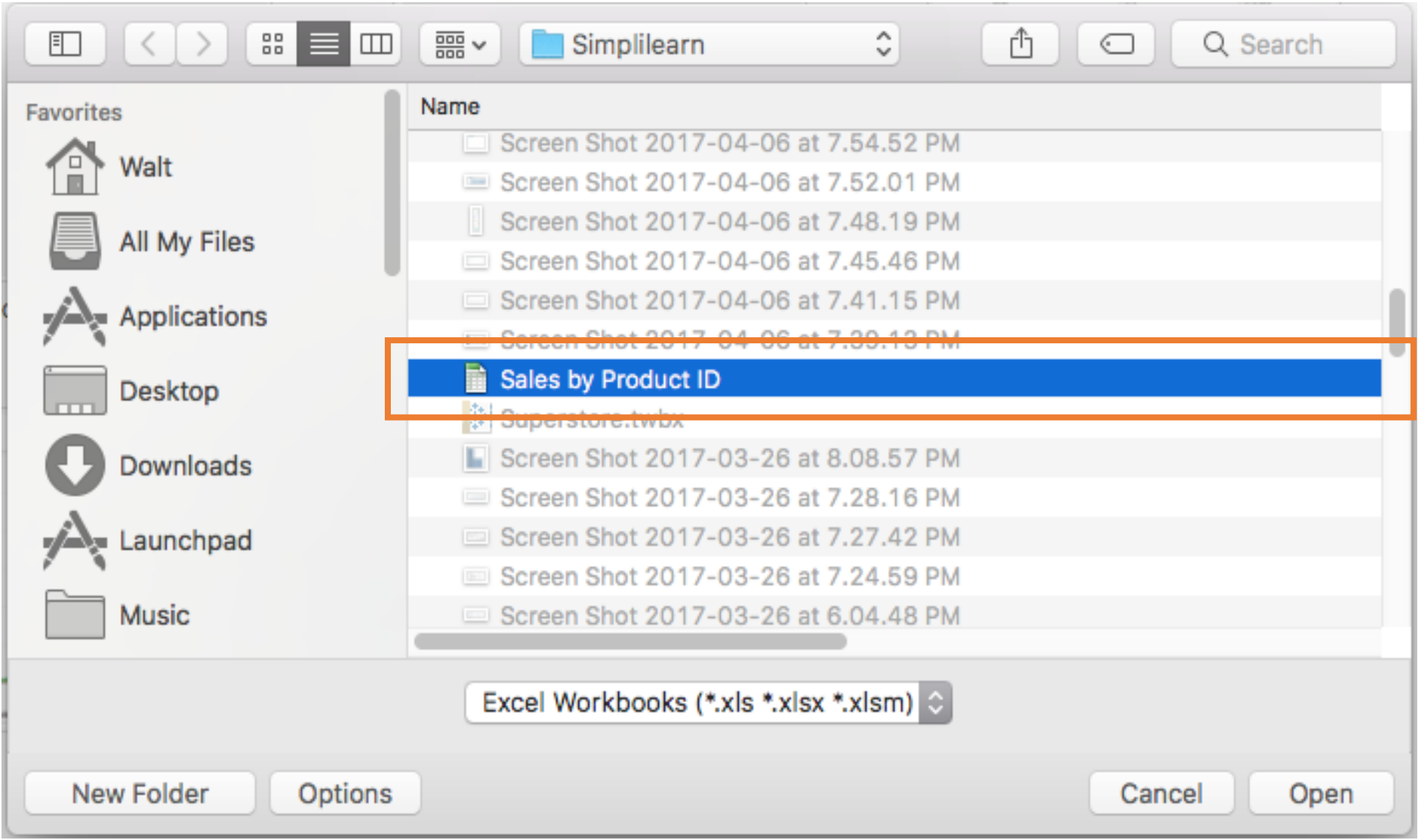
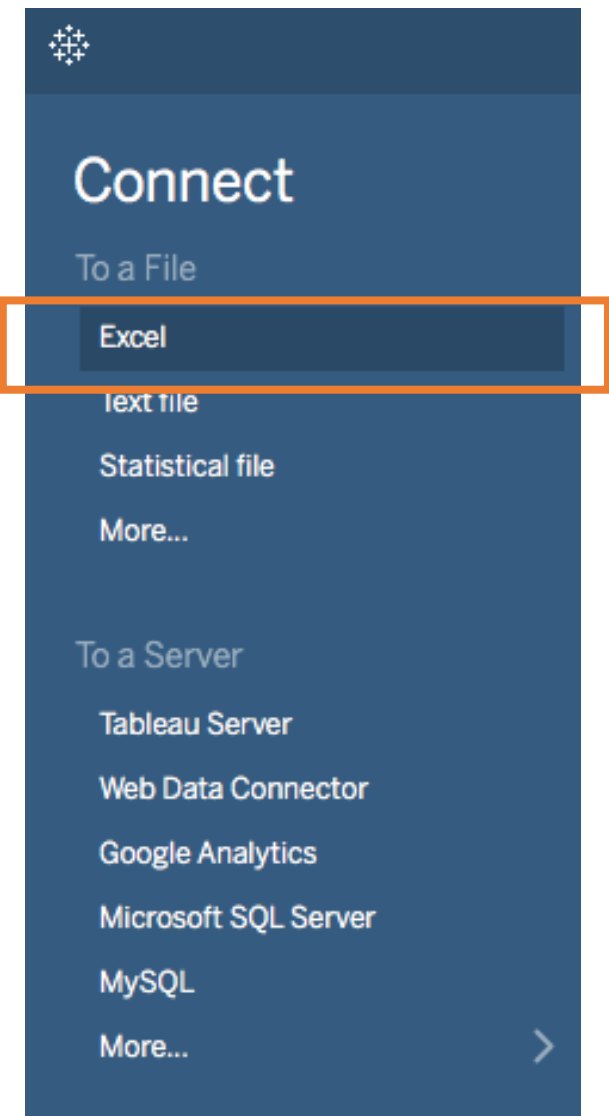




# Getting Started with Tableau Application

## CONNECTING TO DATA SOURCE

To start visualization, it's important to connect to a data source.  
Here is how you connect to an Excel data source:



Opening  
Tableau  
Application

Exploring  
the Start  
Page

Exploring  
the Data  
Source Page

Exploring  
Tableau  
Workspace

Tableau  
Files and  
Folders

# Getting Started with Tableau Application

## EXPLORING THE DATA SOURCE PAGE

- Tableau takes you to the Data Source page after you establish the initial connection to your data.
- The Data Source page is used to make changes to the Tableau data sources.

The screenshot shows the Tableau Data Source page for 'Sample - Superstore'. The interface includes a left sidebar with 'Connections' (Sample - Superstore) and 'Sheets' (Orders, People, Returns, New Union). The main area displays a table of orders with columns: Order ID, Order Date, Ship Date, Ship Mode, Customer Name, Segment, Country, City, State, Postal Code, Region, Category, Sub-Category, and Product Name. The table is sorted by 'Data source order' and shows 1,000 rows. A 'Go to Worksheet' button is visible at the bottom left.

Order ID	Order Date	Ship Date	Ship Mode	Customer Name	Segment	Country	City	State	Postal Code	Region	Category	Sub-Category	Product Name
CA-2013-152156	11/9/14	11/12/14	Second Class	Claire Gute	Consumer	United States	Henderson	Kentucky	42420	South	Furniture	Bookcases	Bush Somet
CA-2013-152156	11/9/14	11/12/14	Second Class	Claire Gute	Consumer	United States	Henderson	Kentucky	42420	South	Furniture	Chairs	Hon Deluxe
CA-2013-138688	6/13/14	6/17/14	Second Class	Darrin Van Huff	Corporate	United States	Los Angeles	California	90036	West	Office Supplies	Labels	Self-Adhesi
US-2012-1089...	10/11/13	10/18/13	Standard Class	Sean O'Donnell	Consumer	United States	Fort Lauder...	Florida	33311	South	Furniture	Tables	Bretford CR
US-2012-1089...	10/11/13	10/18/13	Standard Class	Sean O'Donnell	Consumer	United States	Fort Lauder...	Florida	33311	South	Office Supplies	Storage	Eldon Fold '1
CA-2011-115812	6/9/12	6/14/12	Standard Class	Brosina Hoffman	Consumer	United States	Los Angeles	California	90032	West	Furniture	Furnishings	Eldon Expre
CA-2011-115812	6/9/12	6/14/12	Standard Class	Brosina Hoffman	Consumer	United States	Los Angeles	California	90032	West	Office Supplies	Art	Newell 322
CA-2011-115812	6/9/12	6/14/12	Standard Class	Brosina Hoffman	Consumer	United States	Los Angeles	California	90032	West	Technology	Phones	Mitel 5320 I
CA-2011-115812	6/9/12	6/14/12	Standard Class	Brosina Hoffman	Consumer	United States	Los Angeles	California	90032	West	Office Supplies	Binders	DXL Angle-V
CA-2011-115812	6/9/12	6/14/12	Standard Class	Brosina Hoffman	Consumer	United States	Los Angeles	California	90032	West	Office Supplies	Appliances	Belkin FSC2
CA-2011-115812	6/9/12	6/14/12	Standard Class	Brosina Hoffman	Consumer	United States	Los Angeles	California	90032	West	Furniture	Tables	Chromcraft
CA-2011-115812	6/9/12	6/14/12	Standard Class	Brosina Hoffman	Consumer	United States	Los Angeles	California	90032	West	Technology	Phones	Konftel 250
CA-2014-114412	4/16/15	4/21/15	Standard Class	Andrew Allen	Consumer	United States	Concord	North Caroli...	28027	South	Office Supplies	Paper	Xerox 1967
CA-2013-161389	12/6/14	12/11/14	Standard Class	Irene Maddox	Consumer	United States	Seattle	Washington	98103	West	Office Supplies	Binders	Fellowes PB

# Getting Started with Tableau Application

## EXPLORING THE DATA SOURCE PAGE

Opening  
Tableau  
Application

Exploring  
the Start  
Page

Exploring  
the Data  
Source Page

Exploring  
Tableau  
Workspace

Tableau  
Files and  
Folders

The left pane displays details about the data that Tableau Desktop is connected to.

Tableau - Book1

← →

Sample - Superstore

Connections

Add

Sample - Superstore  
Excel

Sheets

Orders

People

Returns

New Union

Sample - Superstore

Orders

Sort fields

Data source order

Orders Order ID	Orders Order Date	Orders Ship Date	Orders Ship Mode	Orders Customer Name	Orders Segment	Orders Country
CA-2013-152156	11/9/14	11/12/14	Second Class	Claire Gute	Consumer	United States
CA-2013-152156	11/9/14	11/12/14	Second Class	Claire Gute	Consumer	United States
CA-2013-138688	6/13/14	6/17/14	Second Class	Darrin Van Huff	Corporate	United States
US-2012-1089...	10/11/13	10/18/13	Standard Class	Sean O'Donnell	Consumer	United States
US-2012-1089...	10/11/13	10/18/13	Standard Class	Sean O'Donnell	Consumer	United States
CA-2011-115812	6/9/12	6/14/12	Standard Class	Brosina Hoffman	Consumer	United States



# Getting Started with Tableau Application

## EXPLORING THE DATA SOURCE PAGE

Opening  
Tableau  
Application

Exploring  
the Start  
Page

Exploring  
the Data  
Source Page

Exploring  
Tableau  
Workspace

Tableau  
Files and  
Folders

Join area defines the type of join between the tables in the data source.

Tableau - Book1

Connections

Sales by Product ID  
Excel

Profits by Product ID  
Excel

Sheets

☐ Use Data Interpreter  
Data Interpreter might be able to clean your Excel workbook.

Profits

New Union

Sales (Sales by Product ID)

Sales

Profits

Sort fields

Data source order

# Profits Row ID (Profits)	Abc Profits Order ID	Abc Profits Product ID (Profits)	Profits Order Date	Abc Profits Product Name (Pr...	# Profits Sum of Profits	# Sales Row ID	Abc Sales Product ID
3513	CA-2014-140326	FUR-BO-10000112	9/5/15	Bush Birmingham Co...	-118	1	FUR-BO-100001...
1761	CA-2012-130785	FUR-BO-10000330	9/5/13	Sauder Camden Coun...	-5	2	FUR-BO-100003...
1595	CA-2012-118423	FUR-BO-10000362	3/24/13	Sauder Inglewood Li...	-36	3	FUR-BO-100003...
1933	CA-2014-161200	FUR-BO-10000468	8/7/15	O'Sullivan 2-Shelf He...	23	4	FUR-BO-100004...
4089	US-2011-1565...	FUR-BO-10000711	8/19/12	Hon Metal Bookcase...	172	5	FUR-BO-100007...
2404	US-2013-1101...	FUR-BO-10000780	9/28/14	O'Sullivan Plantatio...	-225	6	FUR-BO-100007...
486	CA-2014-140963	FUR-BO-10001337	6/11/15	O'Sullivan Living Dim...	-30	7	FUR-BO-100013...
842	CA-2012-100454	FUR-BO-10001519	11/20/13	O'Sullivan 3-Shelf He...	9	8	FUR-BO-100015...
7968	CA-2013-157707	FUR-BO-10001567	10/11/14	Bush Westfield Colle...	-191	9	FUR-BO-100015...
473	CA-2011-144666	FUR-BO-10001601	11/9/12	Sauder Mission Libra...	10	10	FUR-BO-100016...
3508	CA-2011-166863	FUR-BO-10001608	6/20/12	Hon Metal Bookcase...	-20	11	FUR-BO-100016...
737	CA-2014-131954	FUR-BO-10001619	1/22/15	O'Sullivan Cherrywo...	19	12	FUR-BO-100016...
1	CA-2013-152156	FUR-BO-10001798	11/9/14	Bush Somerset Colle...	42	13	FUR-BO-100017...
1043	CA-2013-102981	FUR-BO-10001811	9/7/14	Atlantic Metals Mobi...	90	14	FUR-BO-100018...
1861	US-2014-1212...	FUR-BO-10001918	3/27/15	Sauder Forest Hills Li...	-29	15	FUR-BO-100019...

 Data source filters can be defined to restrict data coming from data source.

# Getting Started with Tableau Application

## EXPLORING THE DATA SOURCE PAGE

Opening  
Tableau  
Application

Exploring  
the Start  
Page

Exploring  
the Data  
Source Page

Exploring  
Tableau  
Workspace

Tableau  
Files and  
Folders

Preview pane  
gives a quick view  
of the data and  
allows general  
modification.

Tableau - Book1

← →

Sample - Superstore  
Excel

Connections

Add

Sheets

Orders

People

Returns

New Union

Sample - Superstore

Orders

Sort fields Data source order

Orders Order ID	Orders Order Date	Orders Ship Date	Orders Ship Mode	Orders Customer Name	Orders Segment	Orders Country
CA-2013-152156	11/9/14	11/12/14	Second Class	Claire Gute	Consumer	United States
CA-2013-152156	11/9/14	11/12/14	Second Class	Claire Gute	Consumer	United States
CA-2013-138688	6/13/14	6/17/14	Second Class	Darrin Van Huff	Corporate	United States
US-2012-1089...	10/11/13	10/18/13	Standard Class	Sean O'Donnell	Consumer	United States
US-2012-1089...	10/11/13	10/18/13	Standard Class	Sean O'Donnell	Consumer	United States
CA-2011-115812	6/9/12	6/14/12	Standard Class	Brosina Hoffman	Consumer	United States

# Getting Started with Tableau Application

## EXPLORING THE DATA SOURCE PAGE

Opening  
Tableau  
Application

Exploring  
the Start  
Page

Exploring  
the Data  
Source Page

Exploring  
Tableau  
Workspace

Tableau  
Files and  
Folders

Metadata area displays the fields as rows, which will help you quickly examine the structure of the data source.

Tableau - Book1

← →

Sample - Superstore  
Excel

Connections

Add

Sample - Superstore  
Excel

Sheets

Orders

People

Returns

New Union

Sample - Superstore

Orders

Sort fields

Data source order

Field Name	Table	Remote Field Name
Order ID	Orders	Order ID
Order Date	Orders	Order Date
Ship Date	Orders	Ship Date
Ship Mode	Orders	Ship Mode
Customer Name	Orders	Customer Name
Segment	Orders	Segment



# Getting Started with Tableau Application

## EXPLORING THE DATA SOURCE PAGE

After reviewing the data source page to confirm the data was interpreted correctly, click the “Sheet1” tab to open a worksheet in the Tableau workspace. The data source will appear in the data pane:

The screenshot shows the Tableau Data Source page. On the left, the 'Connections' pane lists 'Sales by Product ID' (Excel) and 'New Union'. The 'Sheets' pane shows 'Sales'. A central area displays the 'Sales' data source. A callout bubble points to the data layout. At the bottom, the 'Data Source' tab is selected, and the 'Sheet 1' tab is highlighted with an orange box. An orange arrow points from the 'Sheet 1' tab to the right-hand screenshot.

# Sales Row ID	Abc Sales Product ID	Abc Sales Product Name	Abc Sales Category	Abc Sales Sub-Category	# Sales Sum of Sales
1	FUR-BO-100001...	Bush Birmingham Co...	Furniture	Bookcases	825
2	FUR-BO-100003...	Sauder Camden Coun...	Furniture	Bookcases	1,065
3	FUR-BO-100003...	Sauder Inglewood Li...	Furniture	Bookcases	2,154
4	FUR-BO-100004...	O'Sullivan 2-Shelf He...	Furniture	Bookcases	724
5	FUR-BO-100007...	Hon Metal Bookcase...	Furniture	Bookcases	852
6	FUR-BO-100007...	O'Sullivan Plantatio...	Furniture	Bookcases	2,946
7	FUR-BO-100013...	O'Sullivan Living Dim...	Furniture	Bookcases	2,970
8	FUR-BO-100015...	O'Sullivan 3-Shelf He...	Furniture	Bookcases	1,119
9	FUR-BO-100015...	Bush Westfield Colle...	Furniture	Bookcases	91
10	FUR-BO-100016...	Sauder Mission Libra...	Furniture	Bookcases	935
11	FUR-BO-100016...	Hon Metal Bookcase...	Furniture	Bookcases	1,570
12	FUR-BO-100016...	O'Sullivan Cherrywo...	Furniture	Bookcases	425
13	FUR-BO-100017...	Bush Somerset Colle...	Furniture	Bookcases	1,264
14	FUR-BO-100018...	Atlantic Metals Mobi...	Furniture	Bookcases	5,493
15	FUR-BO-100019...	Sauder Forest Hills Li...	Furniture	Bookcases	1,014
16	FUR-BO-100019...	O'Sullivan 4-Shelf Bo...	Furniture	Bookcases	2,740
17	FUR-BO-100022...	Atlantic Metals Mobi...	Furniture	Bookcases	400

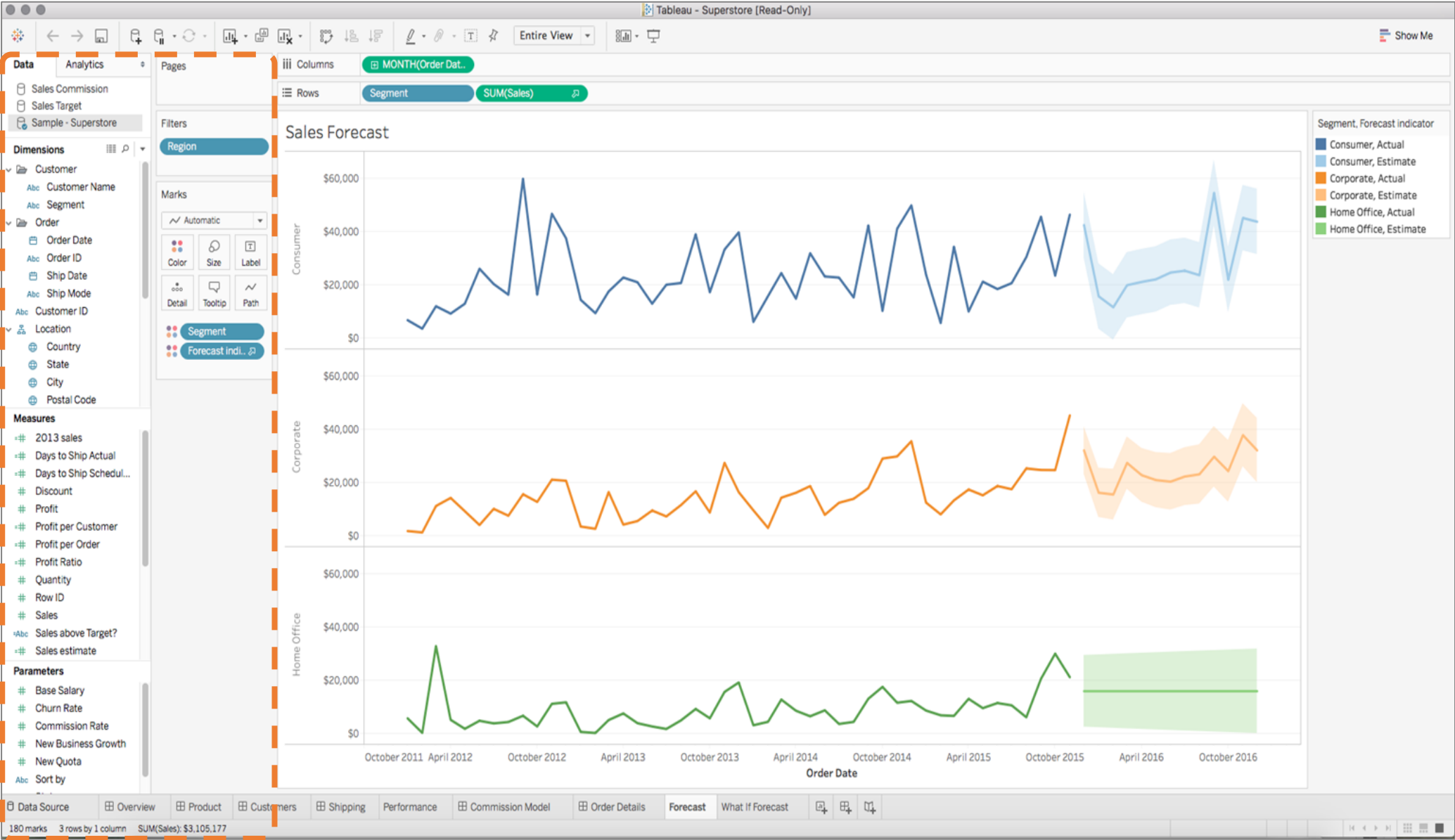
The screenshot shows the Tableau workspace with 'Sheet 1' open. The 'Data' pane on the left lists dimensions: Category, Product ID, Product Name, Row ID, Sub-Category, and Measure Names. The 'Measures' pane on the right lists: Sum of Sales, Number of Records, and Measure Values. The 'Columns' and 'Rows' shelves are empty. The 'Marks' shelf is set to 'Automatic'. The 'Filters' shelf is empty. The 'Detail' and 'Tooltip' options are visible in the 'Marks' shelf.

# Getting Started with Tableau Application

## EXPLORING TABLEAU WORKSPACE

The Tableau workspace consists of menus, the data pane, a toolbar, cards and shelves, and a few sheets, including worksheets, dashboards, or stories.

Data pane contains data sets from different data sources.



# Getting Started with Tableau Application

## EXPLORING TABLEAU WORKSPACE: TOOLBAR

Opening  
Tableau  
Application

Exploring  
the Start  
Page

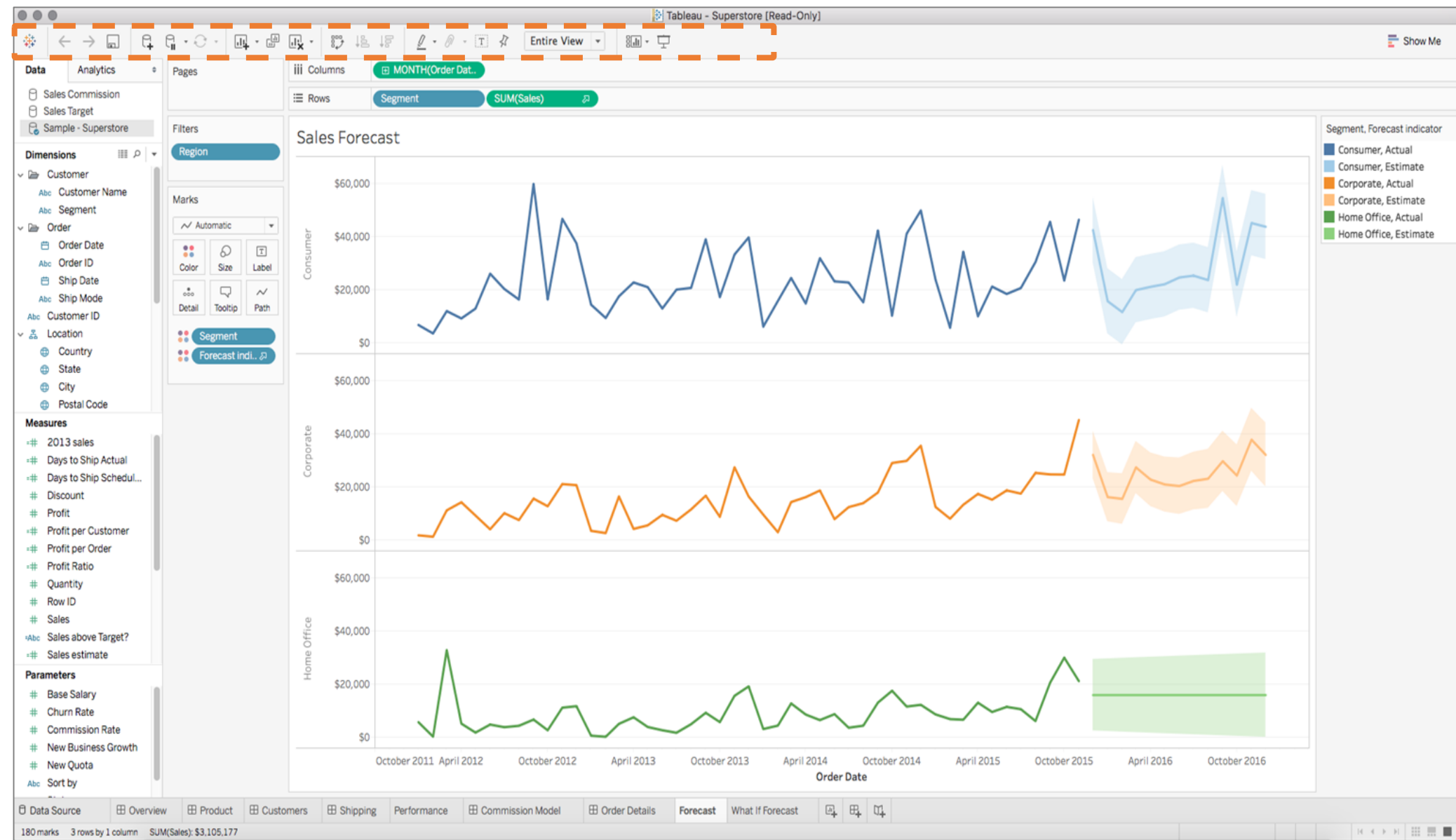
Exploring  
the Data  
Source Page

Exploring  
Tableau  
Workspace

Tableau  
Files and  
Folders

The toolbar on Tableau workspace provides quick access controls for commonly used functions:

- Undo and Redo
- Save
- Add data source
- Add worksheet (or dashboard, story)
- Duplicate sheet
- Clear sheet (or formatting and other options)
- Pause auto updates
- Run update
- Swap
- Sort ascending/descending
- Group members
- Show mark labels
- Show/hide cards
- View options
- Fix axes
- Highlight
- Presentation mode





# Getting Started with Tableau Application

## EXPLORING TABLEAU WORKSPACE: CARDS

Opening  
Tableau  
Application

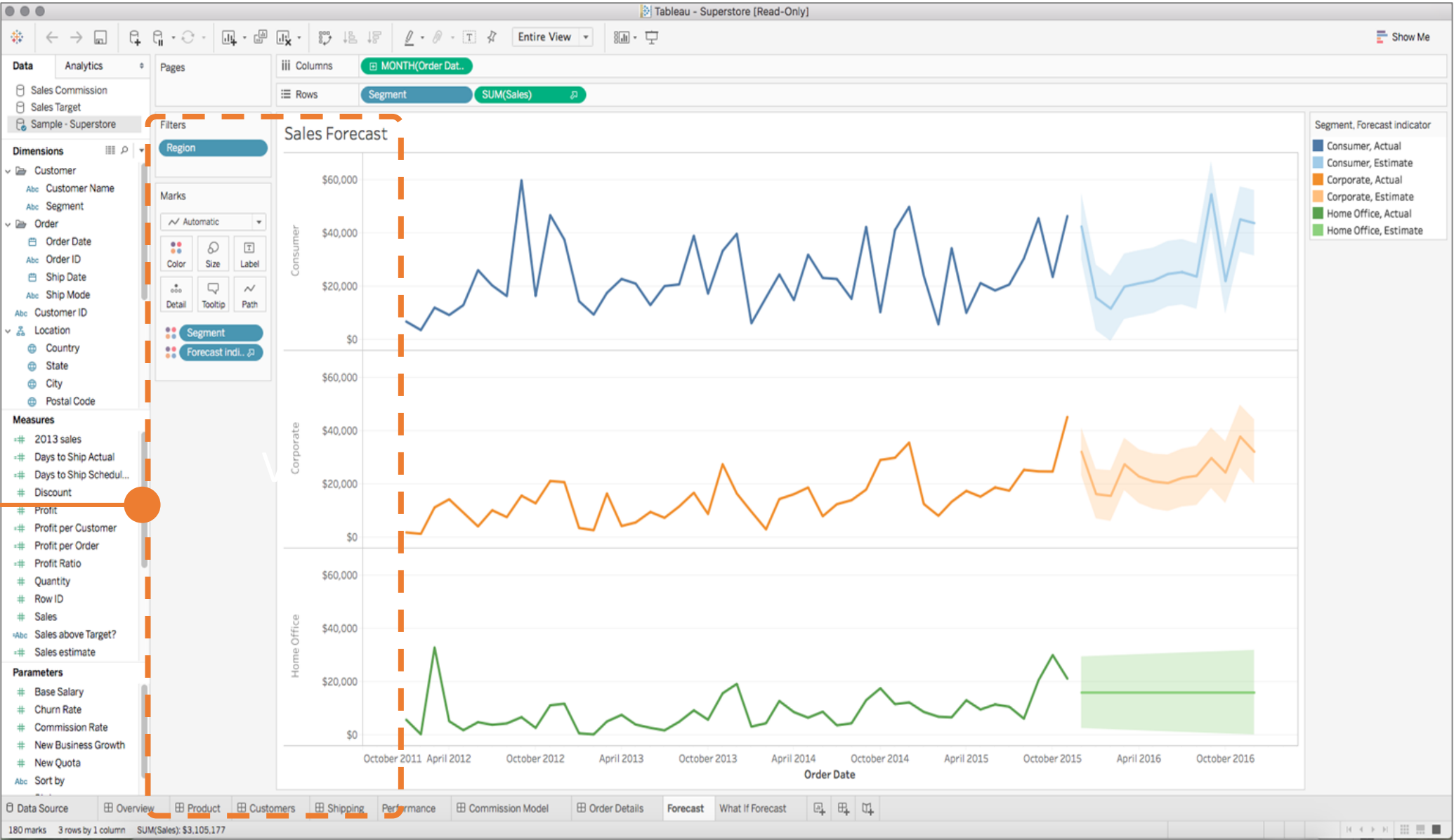
Exploring  
the Start  
Page

Exploring  
the Data  
Source Page

Exploring  
Tableau  
Workspace

Tableau  
Files and  
Folders

Cards are containers  
for shelves, legends,  
and other controls.



Properties of cards are based on its type. For example, Marks card controls the mark properties.

# Getting Started with Tableau Application

## EXPLORING TABLEAU WORKSPACE: CARDS

Opening  
Tableau  
Application

Exploring  
the Start  
Page

Exploring  
the Data  
Source Page

Exploring  
Tableau  
Workspace

Tableau  
Files and  
Folders

Cards visible by default:

- Columns
- Rows
- Pages
- Filters
- Marks

Cards that can be enabled  
using the toolbar action:

- Title
- Caption
- Summary

Some cards are dynamic  
and are visible depending  
upon mark/view type:

- Legend
- Parameters
- Map Legend
- Measure Values Shelf

# Getting Started with Tableau Application

## EXPLORING TABLEAU WORKSPACE: VIEW

Opening  
Tableau  
Application

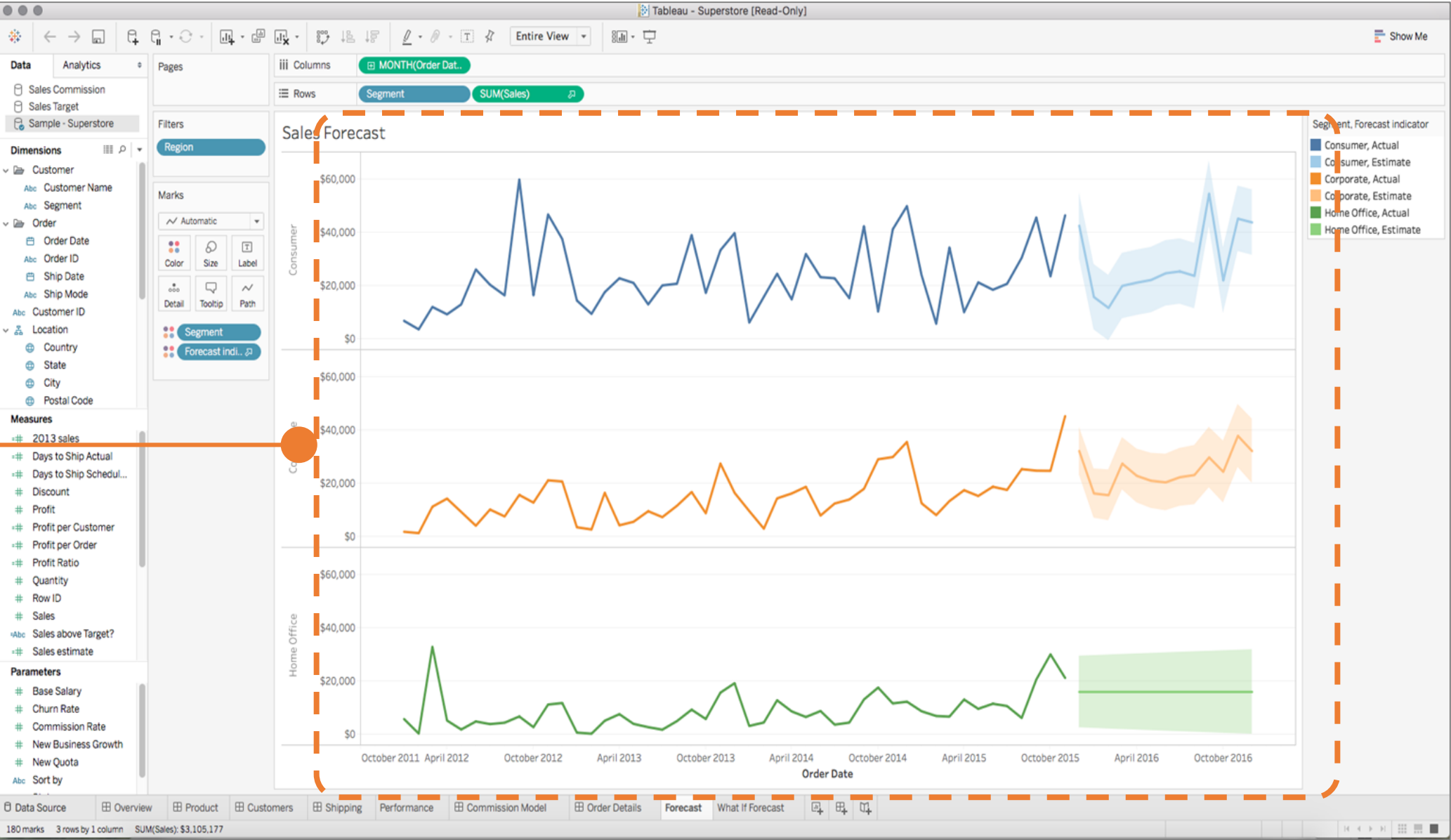
Exploring  
the Start  
Page

Exploring  
the Data  
Source Page

Exploring  
Tableau  
Workspace

Tableau  
Files and  
Folders

The actual visualization created by placing dimensions and measures on shelves is visible in the view.





# Getting Started with Tableau Application

## EXPLORING TABLEAU WORKSPACE: SHOW ME

Opening  
Tableau  
Application

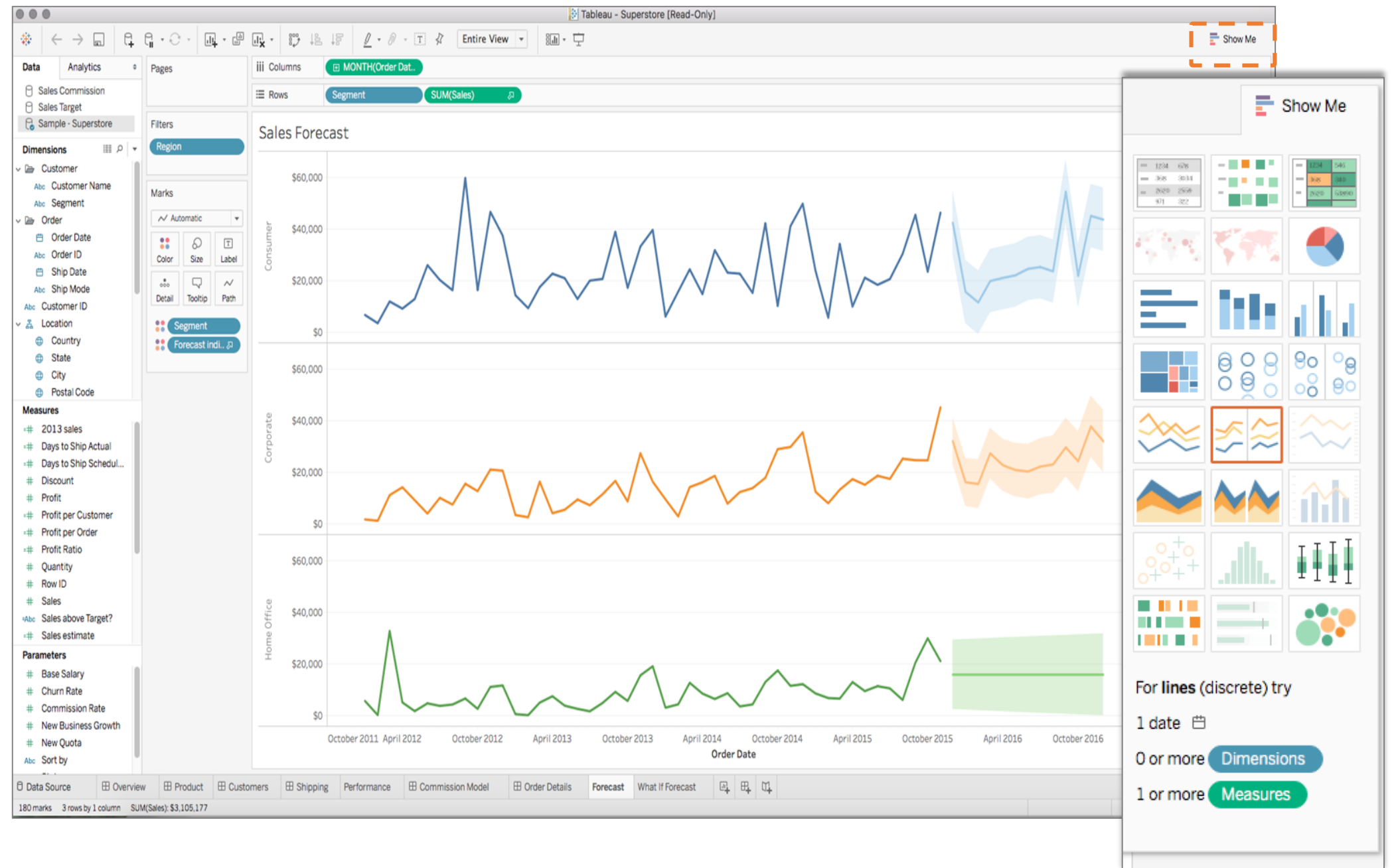
Exploring  
the Start  
Page

Exploring  
the Data  
Source Page

Exploring  
Tableau  
Workspace

Tableau  
Files and  
Folders

- Show Me section contains all possible visualizations in Tableau.
- Depending on the Dimensions and Measures selected, it highlights the allowed views.
- Based on the current view, it highlights the alternative views.



# Getting Started with Tableau Application

## TABLEAU FILES AND FOLDERS

Different file types associated with Tableau are:

Workbooks  
(.twb)

Workbooks hold one or more worksheets and zero or more dashboards and stories.

Bookmarks  
(.tbm)

Bookmarks contain a single worksheet and are used as an easy way to quickly share your work.

Packaged Workbooks  
(.twbx)

A packaged workbook is a single zip file that contains a workbook along with any supporting local file data sources and background images.

Data Extract  
(.tde)

Extract files are a local copy of a subset or entire data source. Use extracts to share data, work offline, and improve database performance.

Data Source  
(.tds)

Data source files do not contain the actual data but the information necessary to connect to the data source.

Packaged Data Source  
(.tdsx)

A packaged data source is a zip file that contains the data source file (.tds) described above as well as local file data sources such as Extract files (.tde), text files, Excel files, Access files, and local cube files.

Opening  
Tableau  
Application

Exploring  
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Tableau  
Files and  
Folders





## Demo—Getting Started with Tableau Application

Demonstrate how to create a workbook and vertical bar chart, connect to saved data source, add a return table, and save the workbook

**TABLEAU**  
**DESKTOP 10**



# Introduction to Tableau Interface

## Topic 2: Components of View Section

TABLEAU  
DESKTOP 10

# Components of View Section

---

A view consists of several sections:

- Field labels
- Title
- Marks Cards
- Legends
- Captions
- Values
- Headers

Some of the sections are specific to the visualization selected.

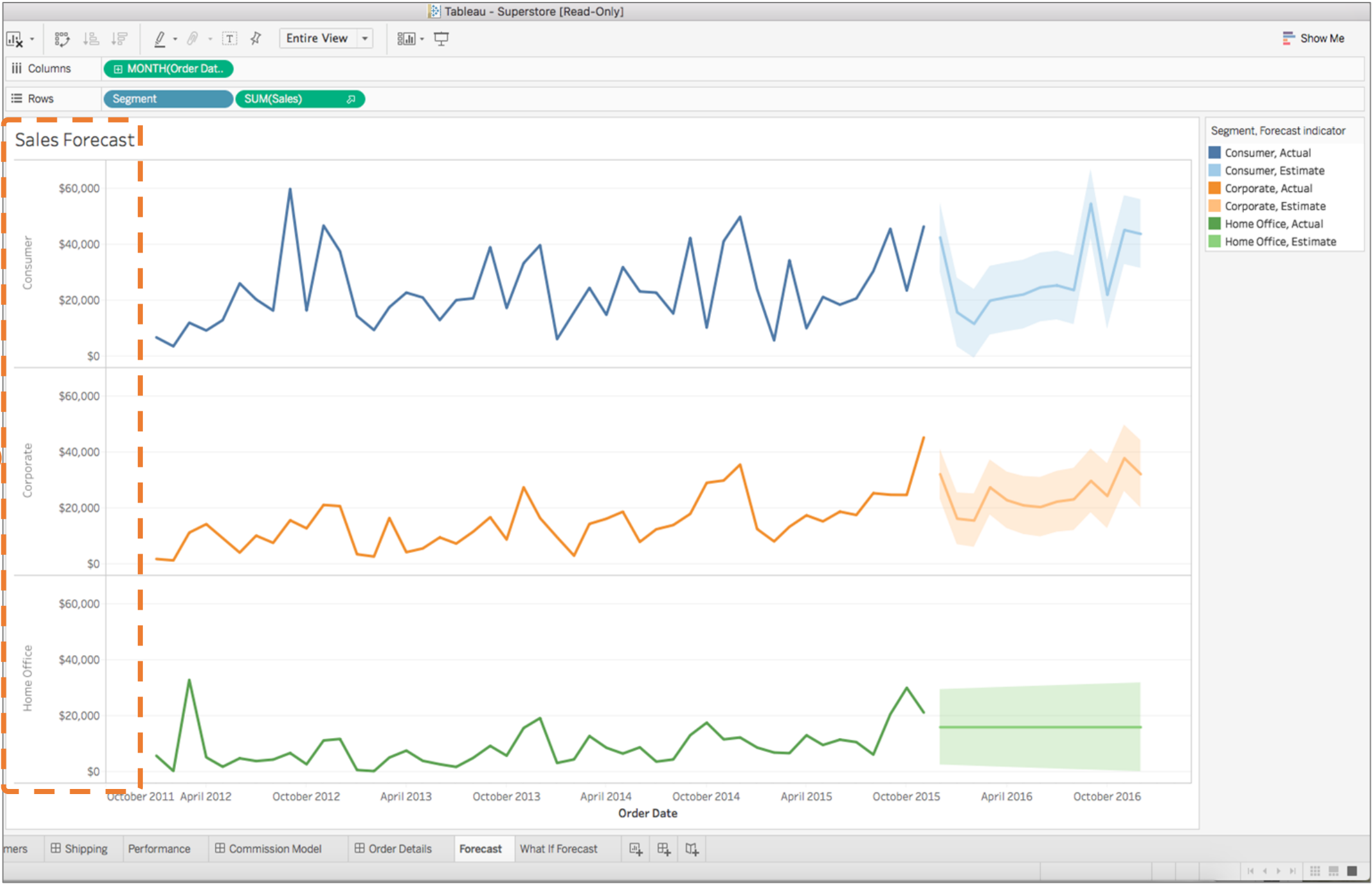


# Components of View Section

## FIELD LABELS

Field labels
Title
Marks card
Legends
Captions
Values
Headers

Field labels display the members of the field.



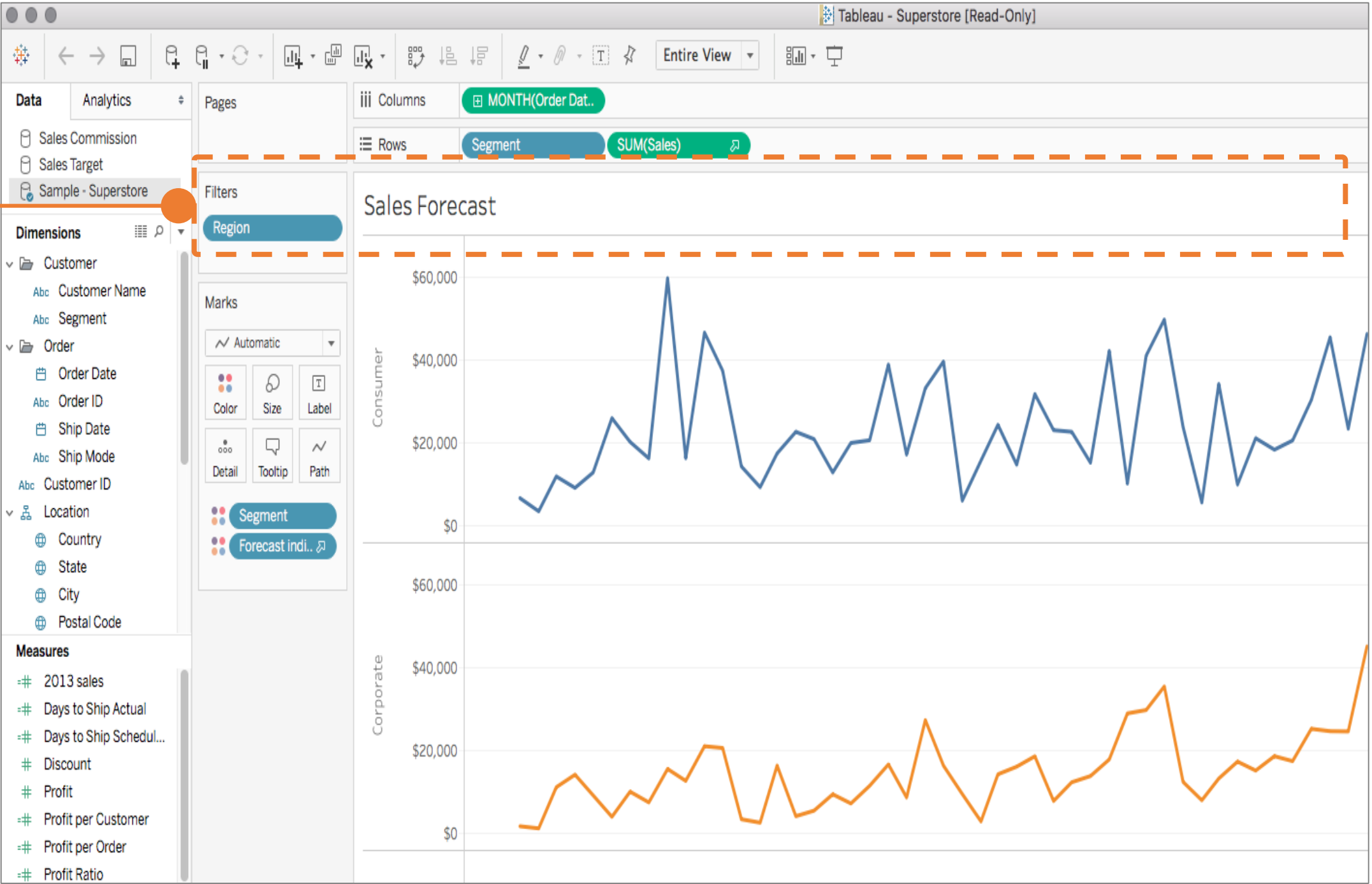


# Components of View Section

Field labels
Title
Marks card
Legends
Captions
Values
Headers

Title displays the title of the worksheet.

TITLE

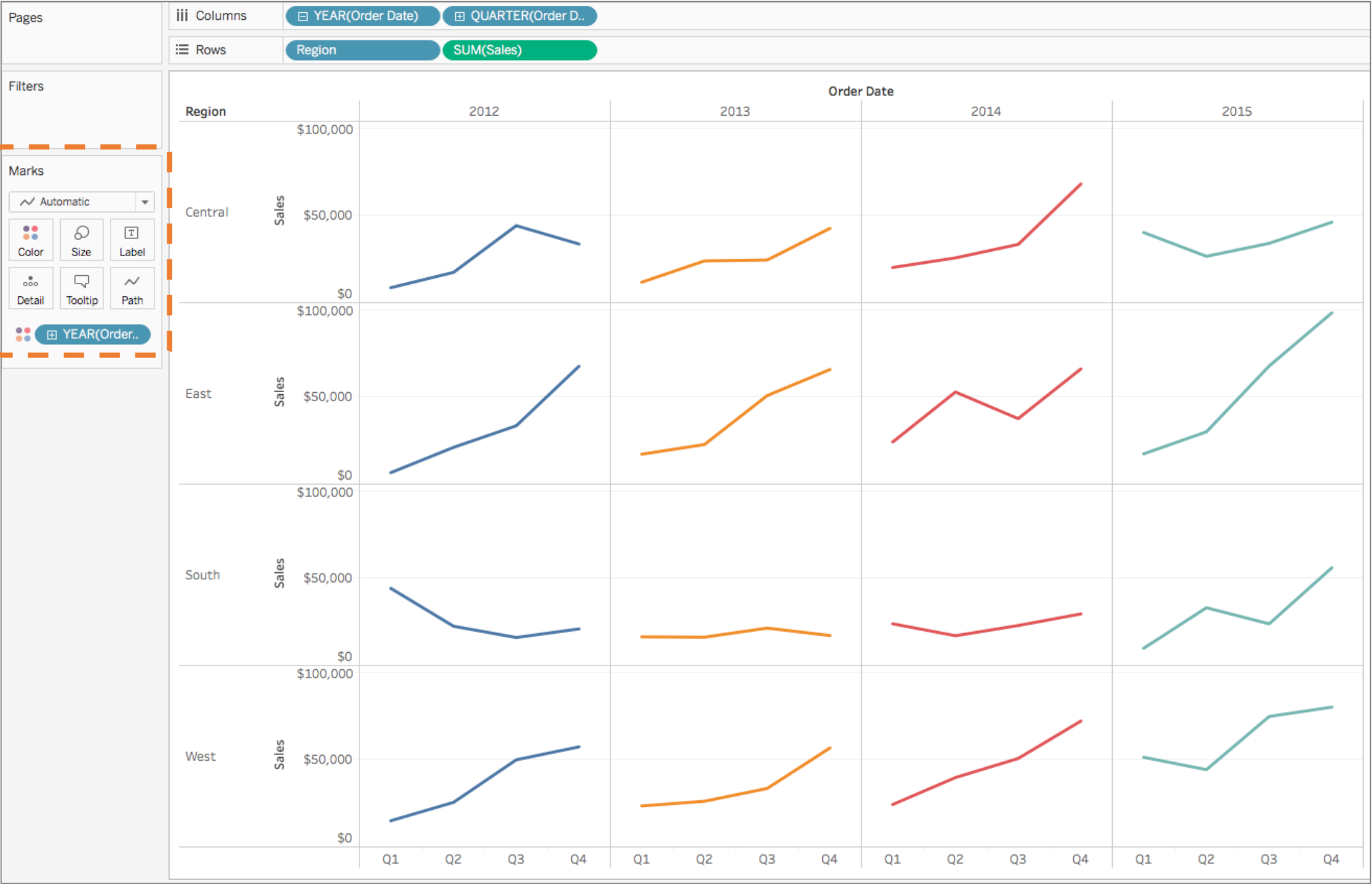


# Components of View Section

## MARKS CARDS

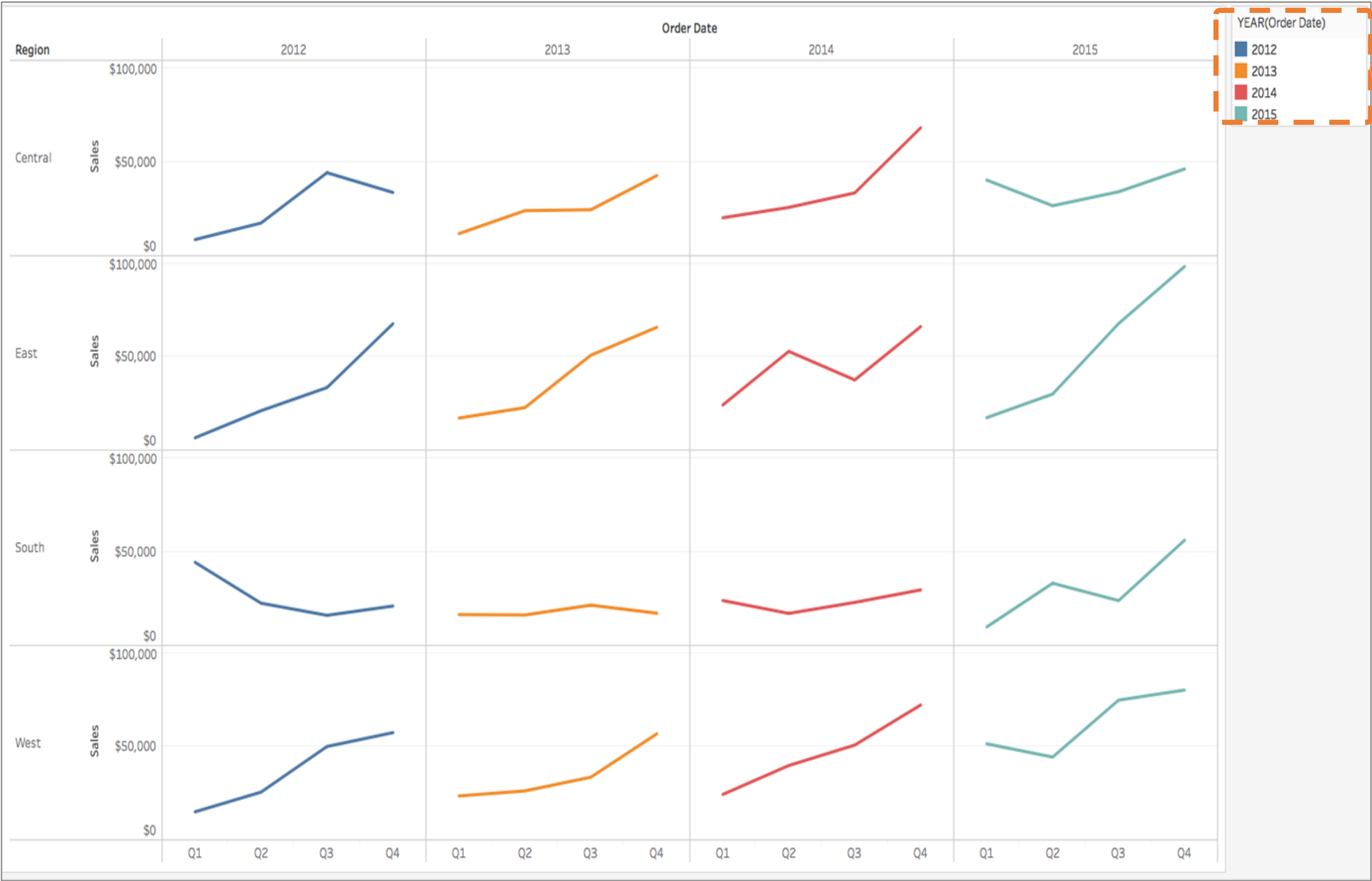
Field labels
Title
Marks card
Legends
Captions
Values
Headers

Marks cards are the primary means to express dimensions and measures in visualizations.



# Components of View Section

## LEGENDS



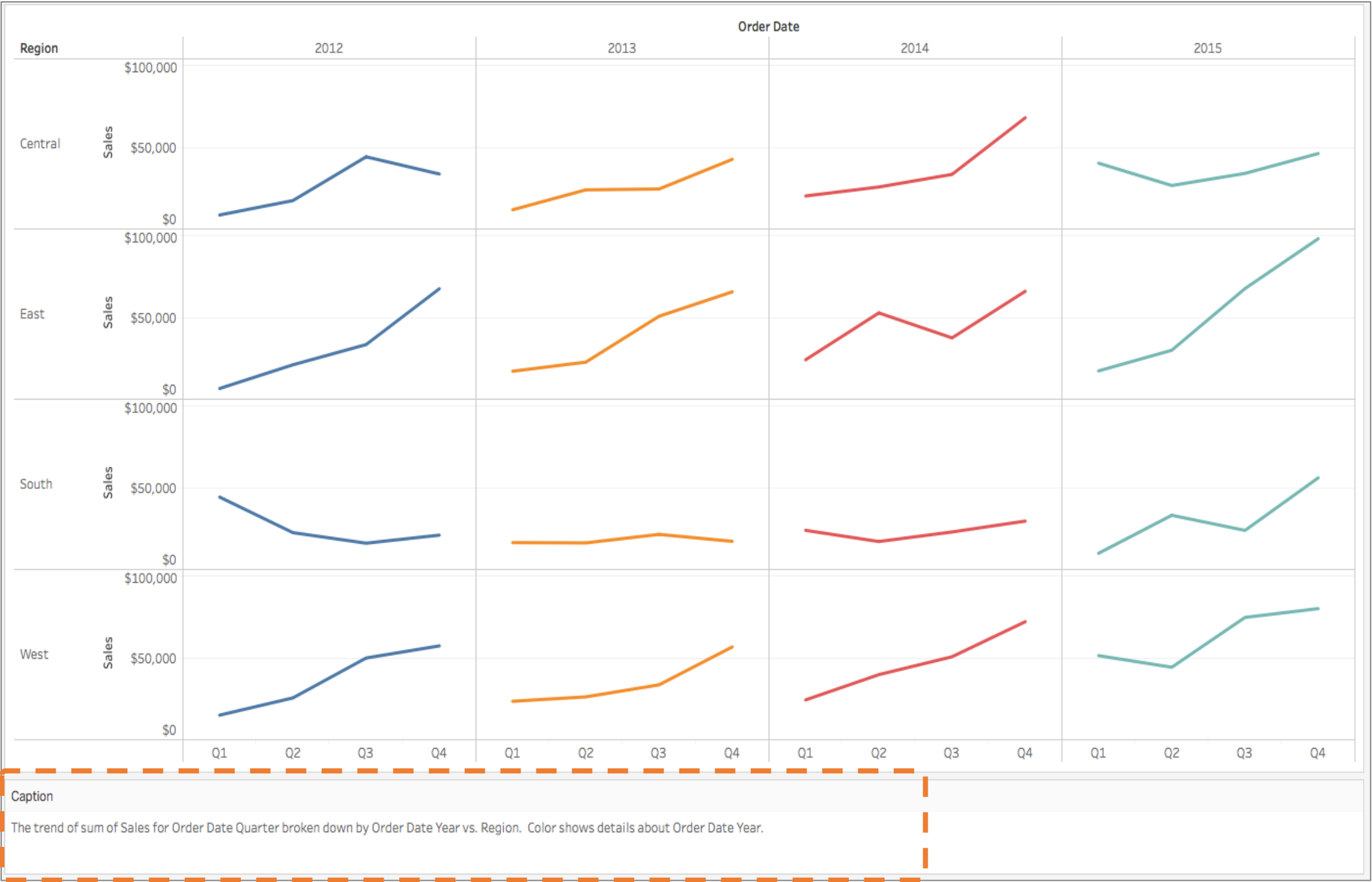
Legends indicate how the view is encoded in relation to your data; they define the color coding of the marks, which can be customized.

# Components of View Section

Field labels
Title
Marks card
Legends
Captions
Values
Headers

Captions are auto-generated based on the view and describe visualization based on the shelf data.

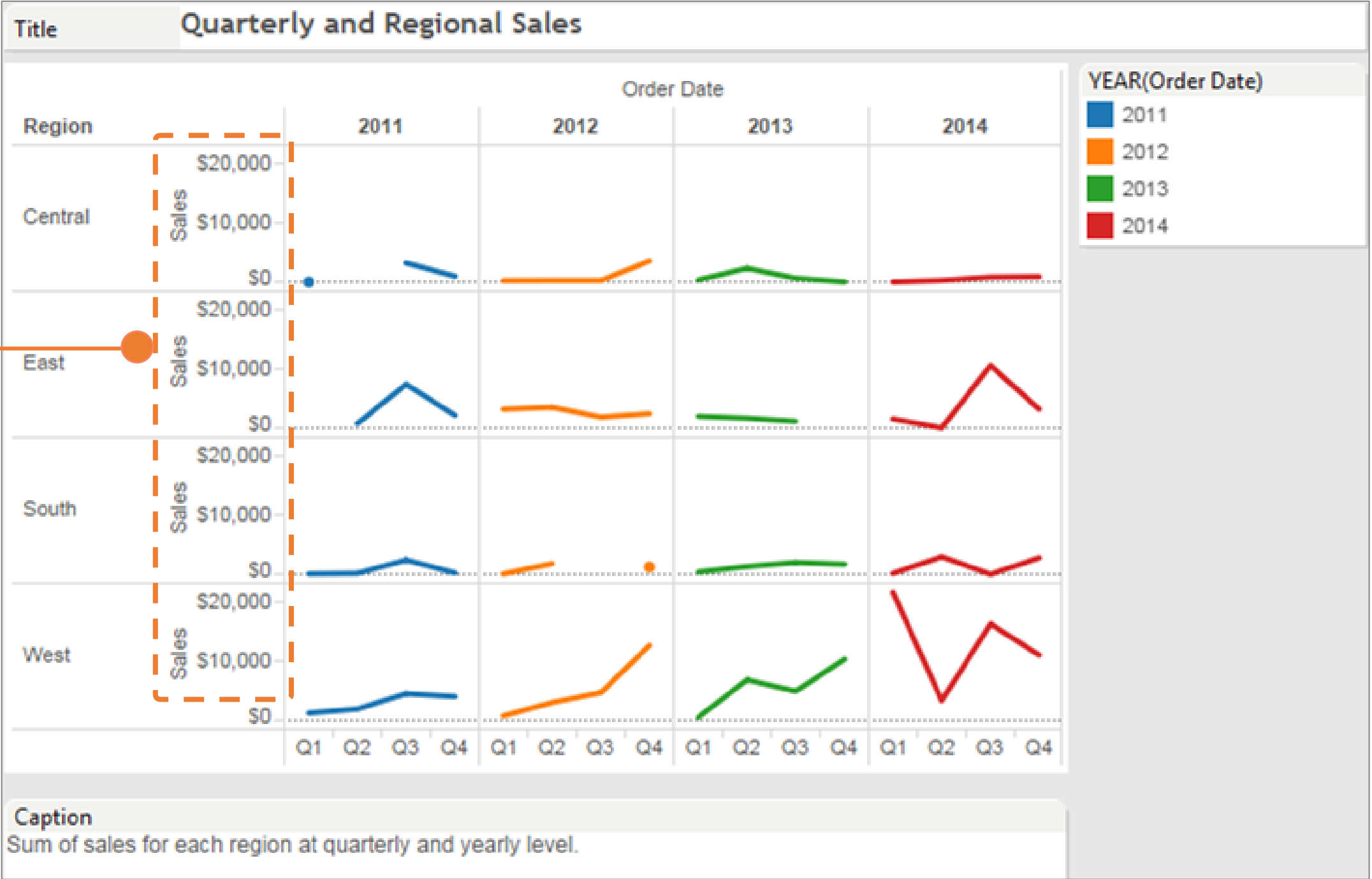
## CAPTIONS





## VALUES

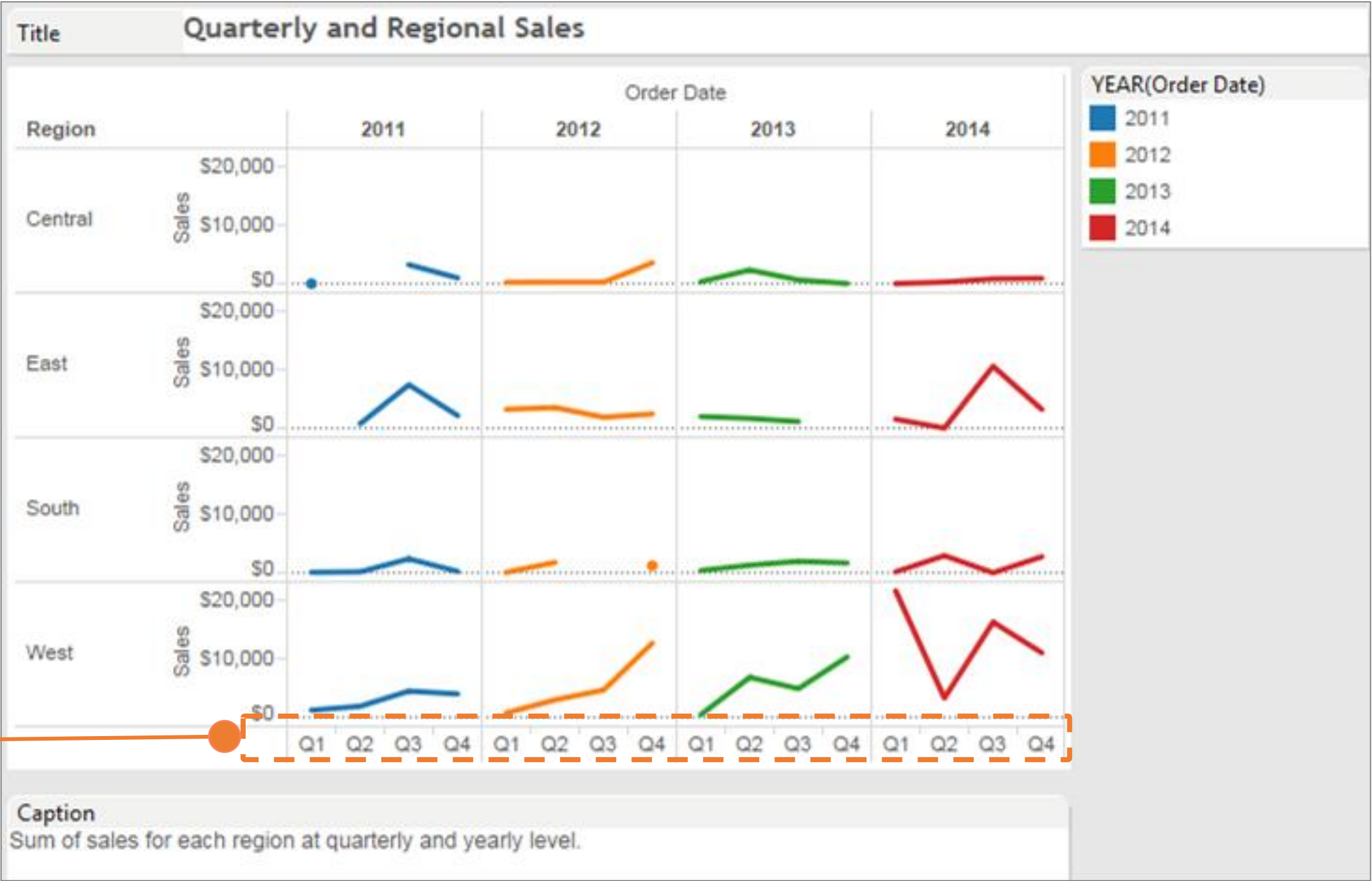
Values represent the numerical data contained in a Measure. It is represented as a continuous axis.



# Components of View Section

Field labels
Title
Marks card
Legends
Captions
Values
Headers

## HEADERS



Headers show the member names of each field on the row shelf and column shelf.



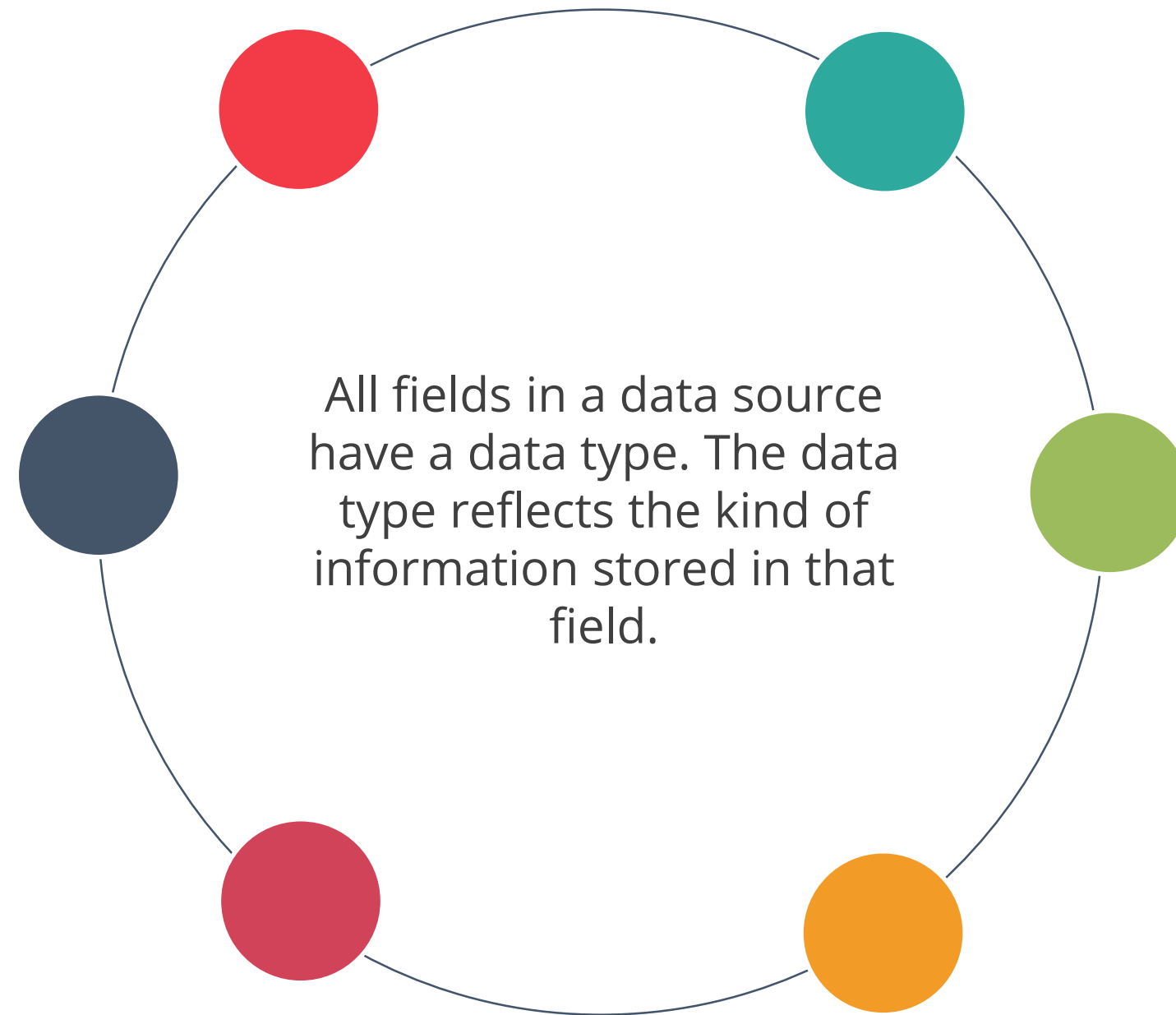
# Introduction to Tableau Interface

## Topic 3: Data Terminology and Definitions

- Data Types
- Data Roles

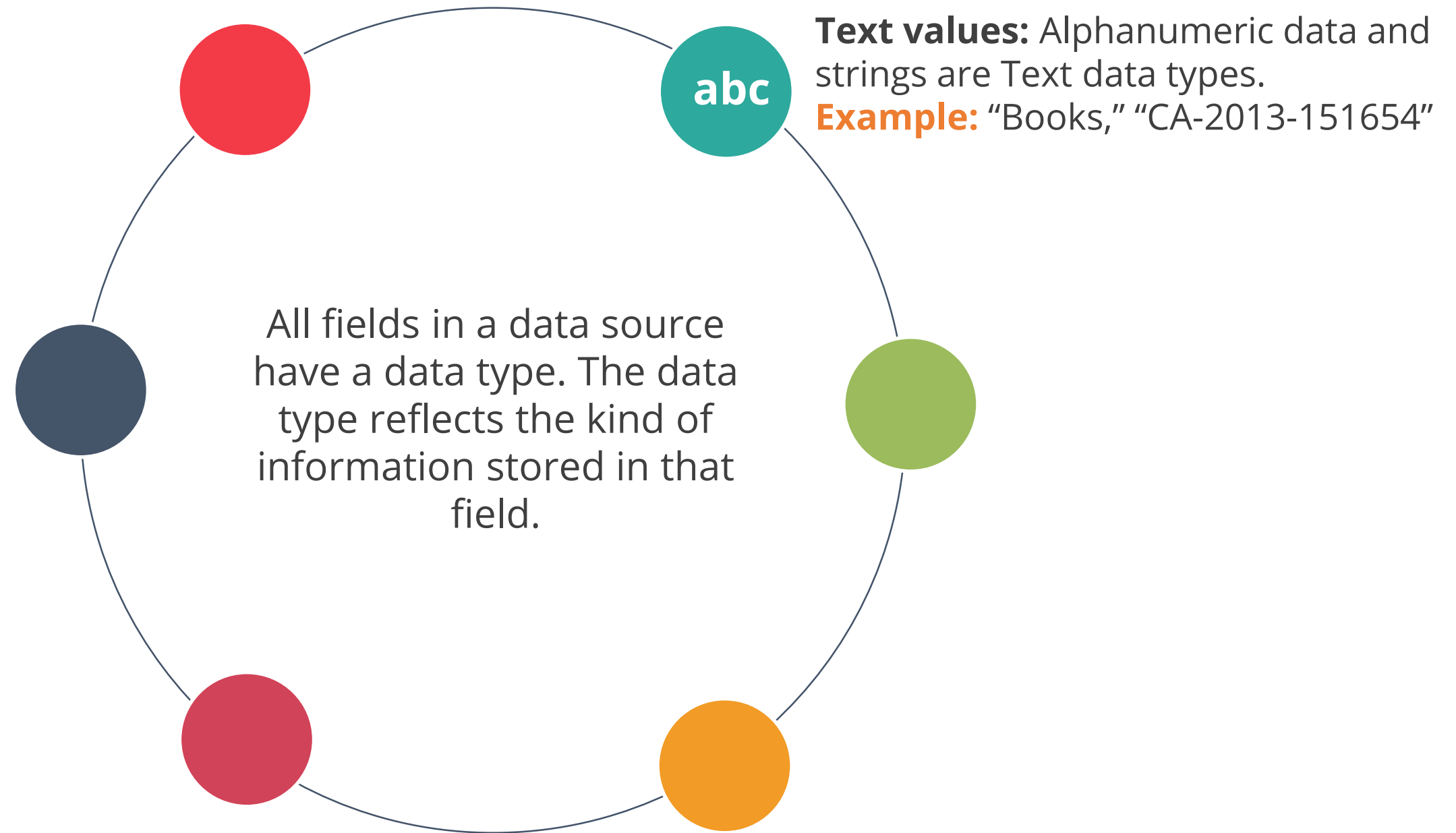
TABLEAU  
DESKTOP 10

# Data Types

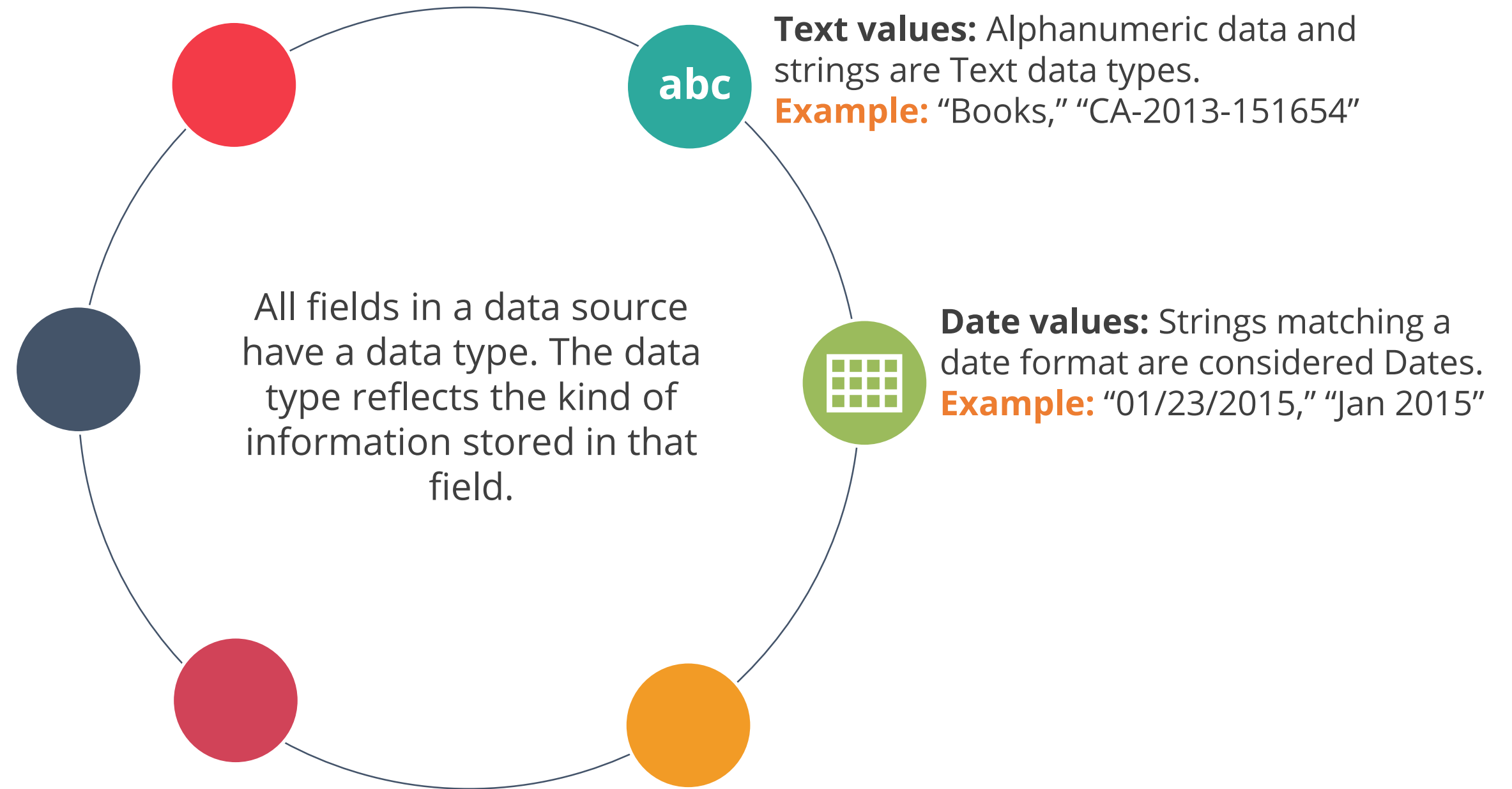




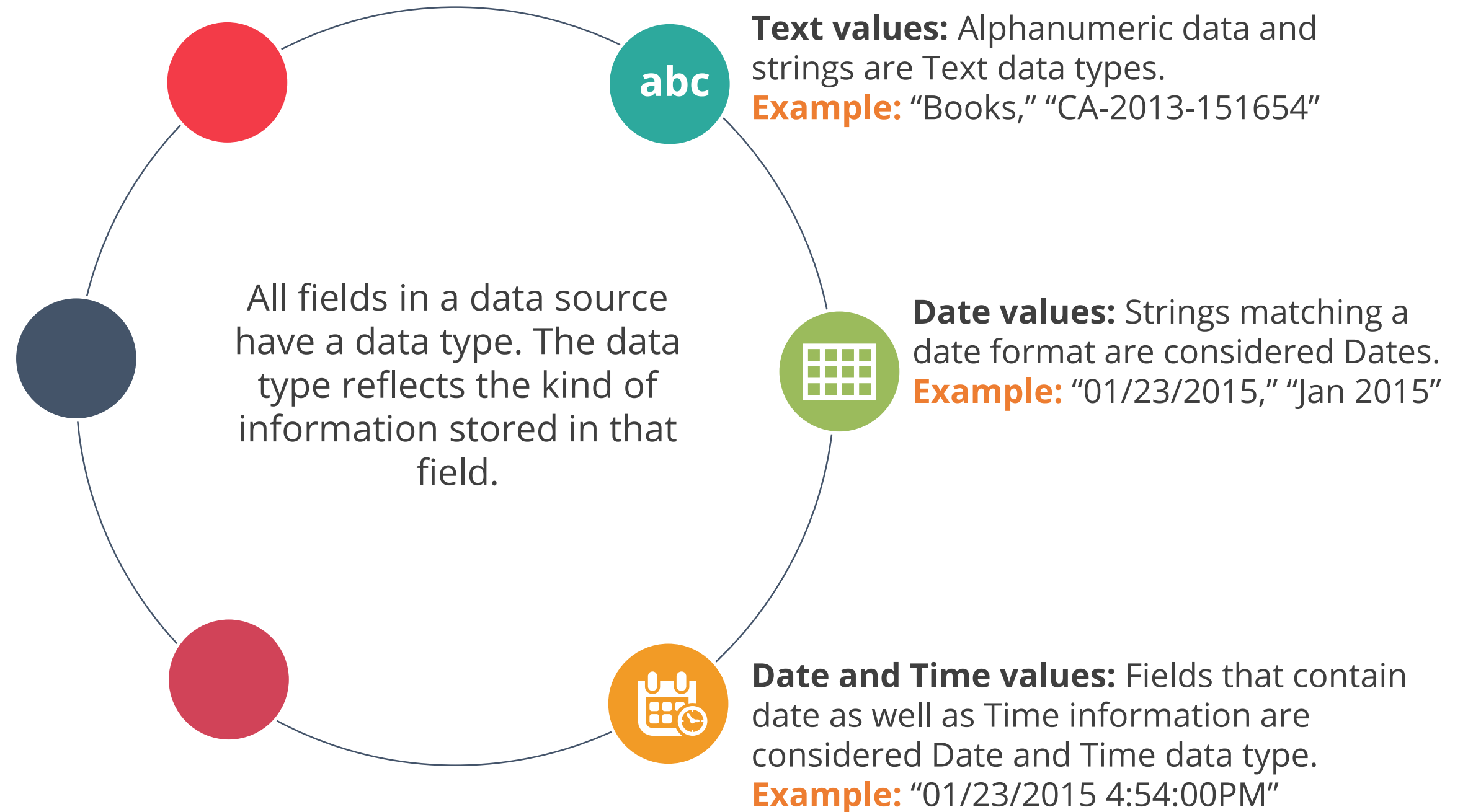
# Data Types



# Data Types

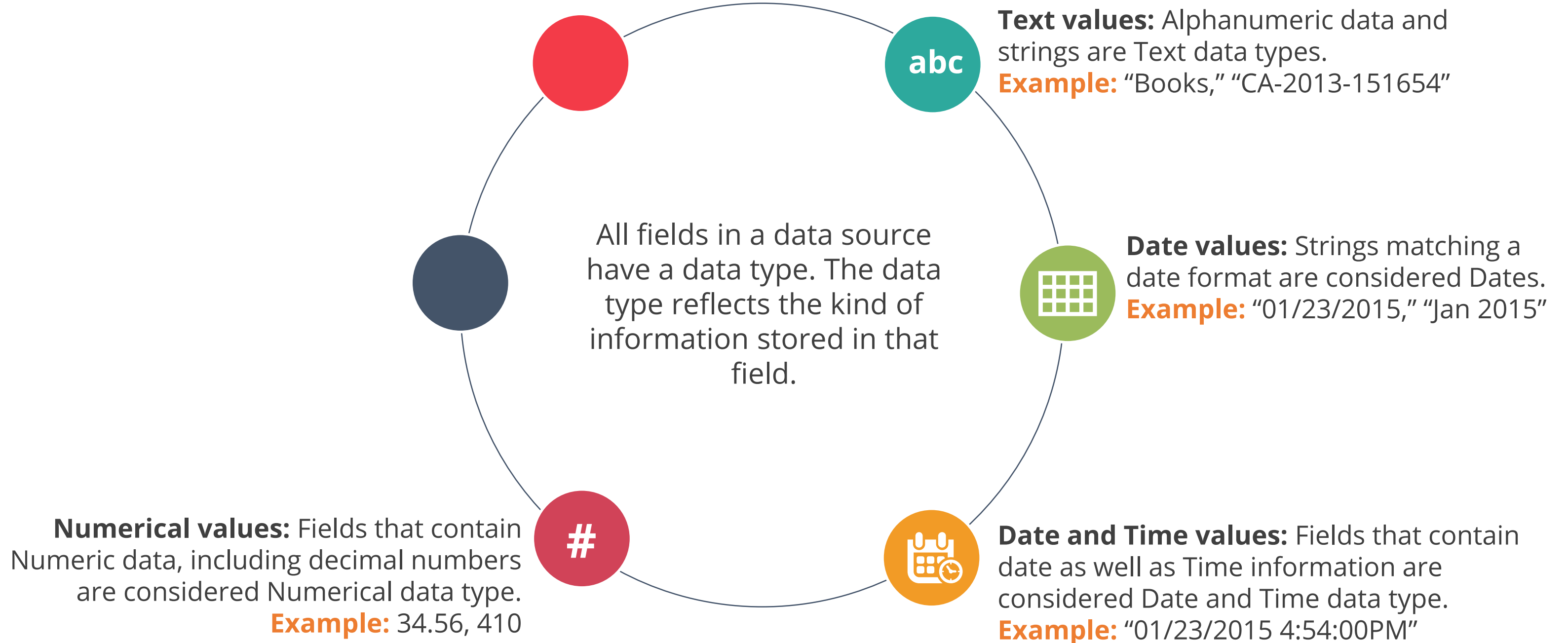


# Data Types

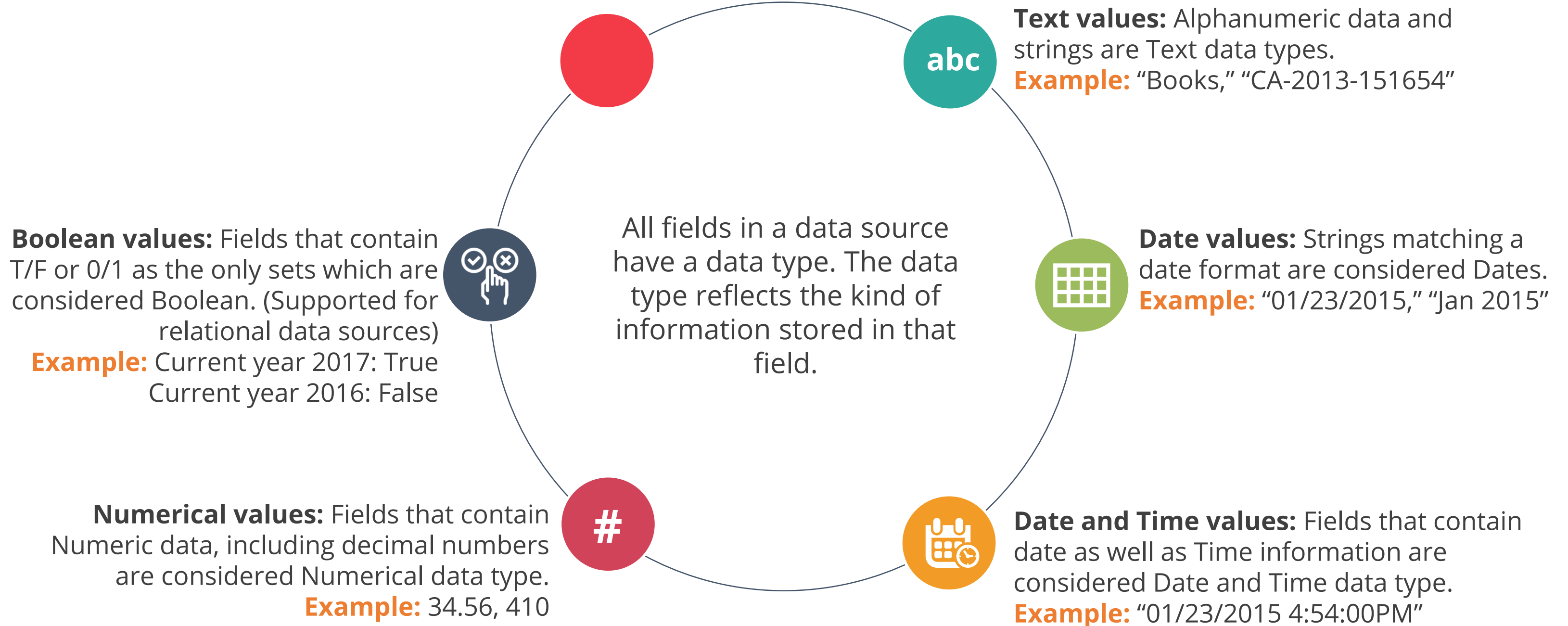




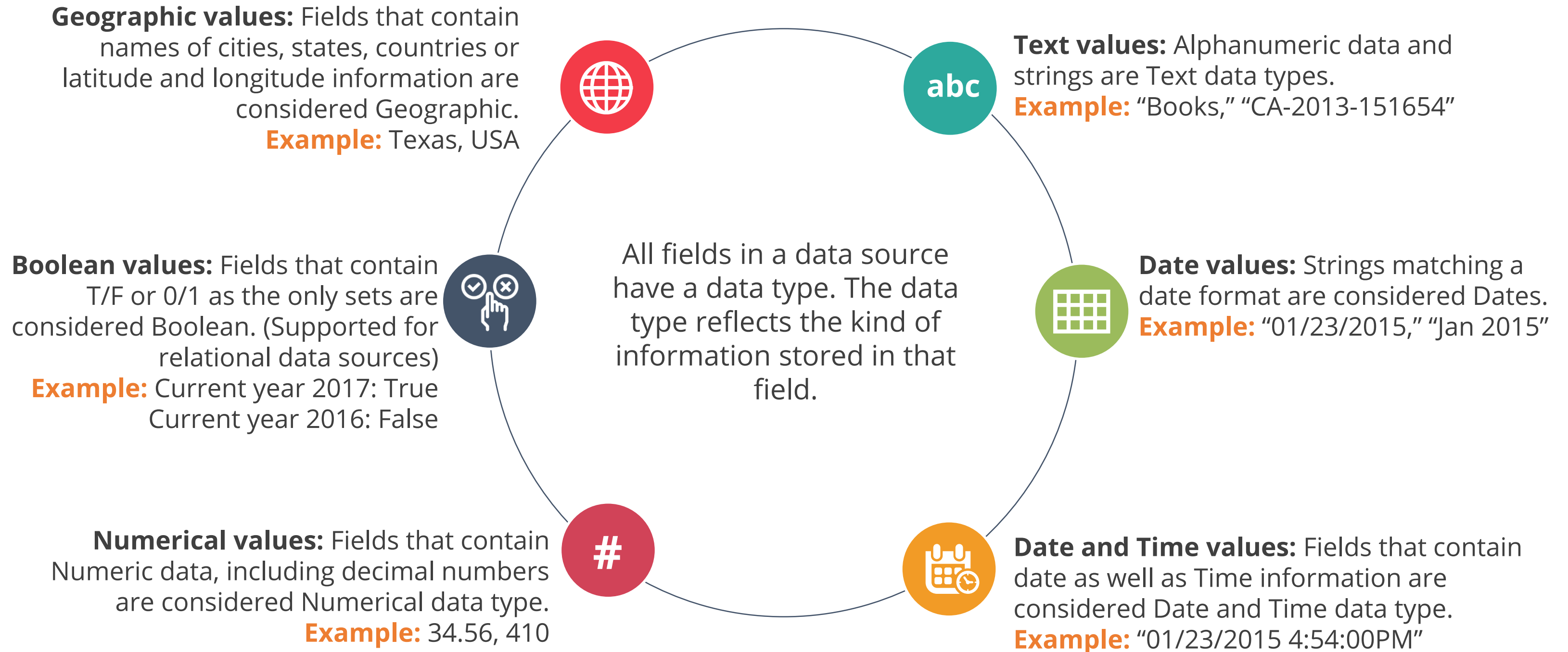
# Data Types



# Data Types



# Data Types





# Data Roles

In addition to a data type, every field in Tableau Public is characterized by two important settings that determine the behavior of the field when it is placed on a shelf:

- Dimension vs. Measure
- Discrete vs. Continuous



Varying the data roles can result in varying visualization.

# Dimension vs. Measure

## Dimension

- Dimensions typically produce headers when added to the rows or columns shelves in the view.
- By default, Tableau treats any field containing categorical information as a dimension.

## Measure

- Measures typically produce axes when added to the rows or columns shelves.
- By default, Tableau treats any field containing numeric (quantitative) information as a measure.

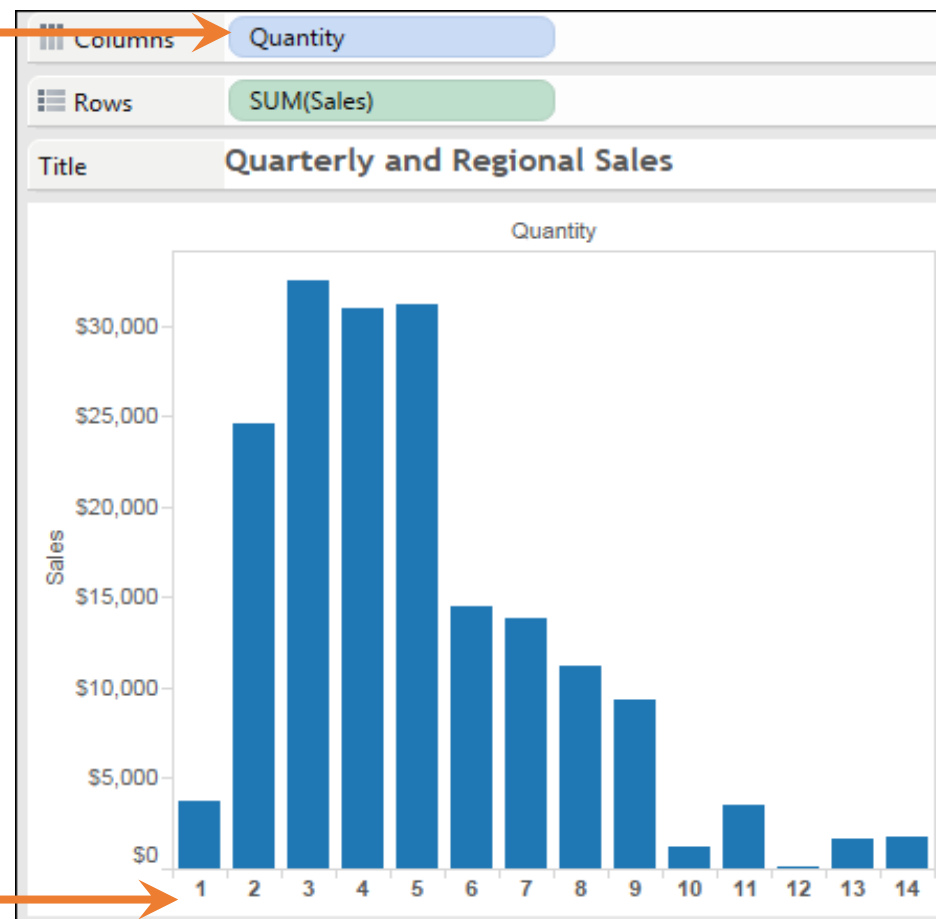
# Continuous vs. Discrete

In addition to dimensions and measures, each field is categorized as either discrete or continuous.  
The graphs below illustrate the differences between these two data roles.

## Quantity as a Discrete Measure

The Quantity field is **blue** in the Columns shelf.

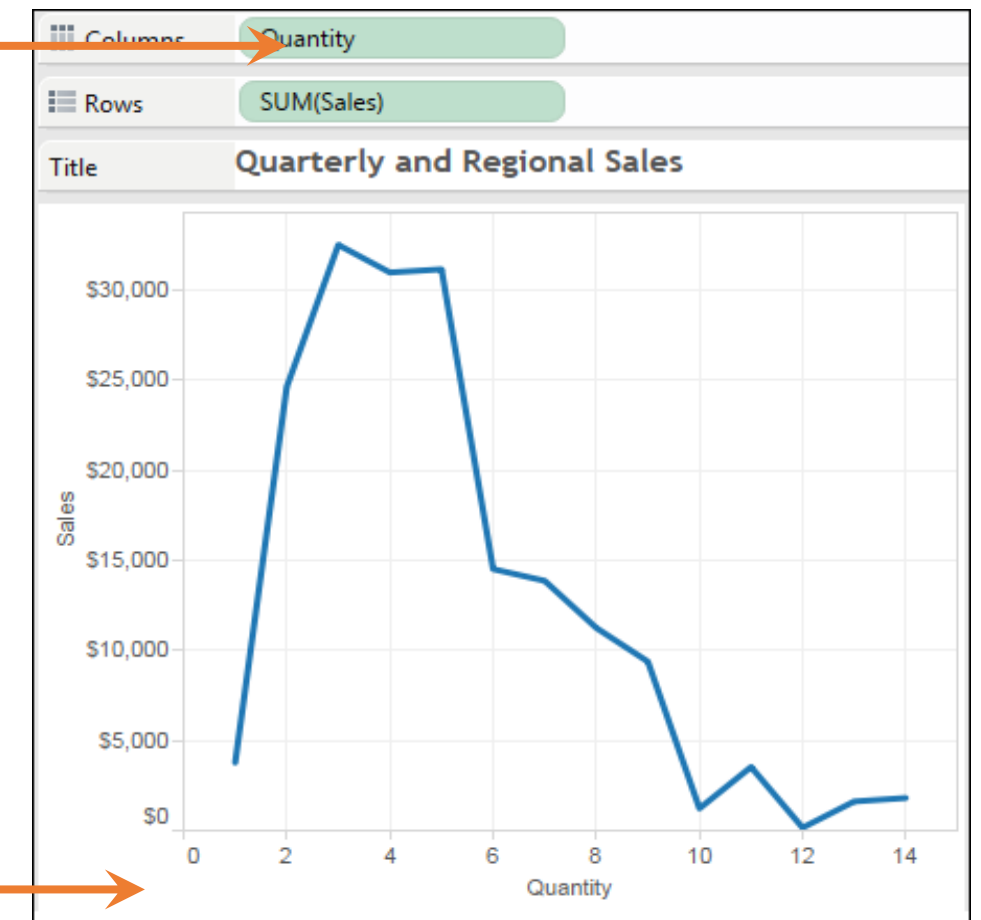
Each distinct quantity is displayed as a header along the bottom of the bar chart.



## Quantity as a Continuous Measure

The Quantity field is **green** in the Columns shelf.

The quantity values are drawn along a continuous axis along the bottom of the line chart.





# Introduction to Tableau Interface

## Topic 4: Automatically Generated Fields in Tableau

- Measure values and Measure names
- Number of records measure
- Visual cues for fields



# Additional Fields in the Data Pane

- The Tableau data pane contains a number of fields that do not come from your original data. They are automatically generated by Tableau.
- Two of the important fields are: [Measure Values](#) and [Measure Names](#).

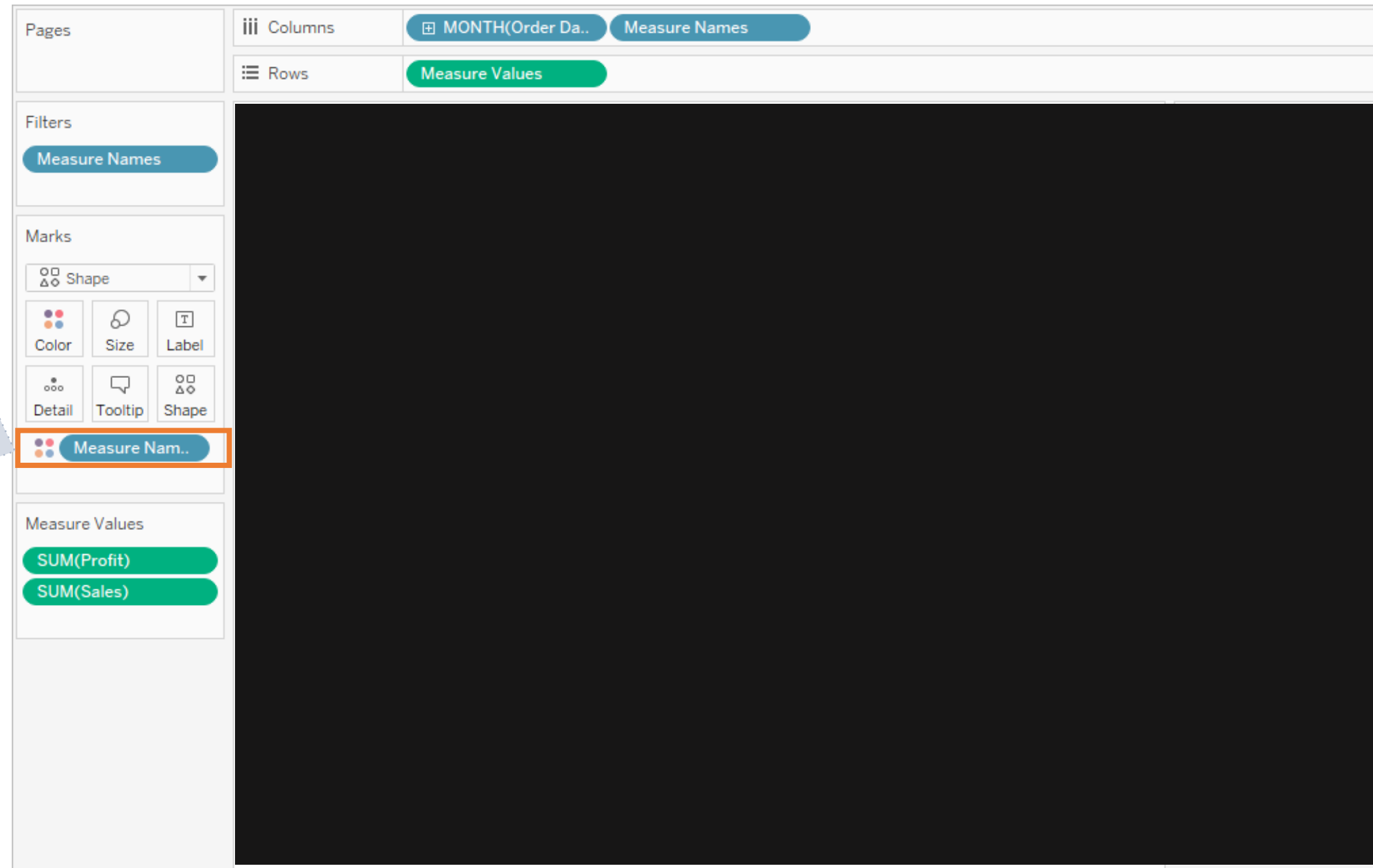
Measure values appear at the bottom of the measures area. It contains all measures in the data collected into a single field with continuous values.

	Date	Region	Sales	Profit
1	1/1/2005	East	\$ 100	\$ 50
2	1/2/2005	West	\$ 300	\$ 100
3	1/3/2005	Central	\$ 500	\$ 200
4	1/4/2005	East	\$ 400	\$ 160
5	1/5/2005	South	\$ 600	\$ 500
6	1/6/2005	West	\$ 800	\$ 750
7	1/7/2005	West	\$ 400	\$ 250
8	1/8/2005	Central	\$ 100	\$ 65
9	1/9/2005	East	\$ 300	\$ 254

# Additional Fields in the Data Pane

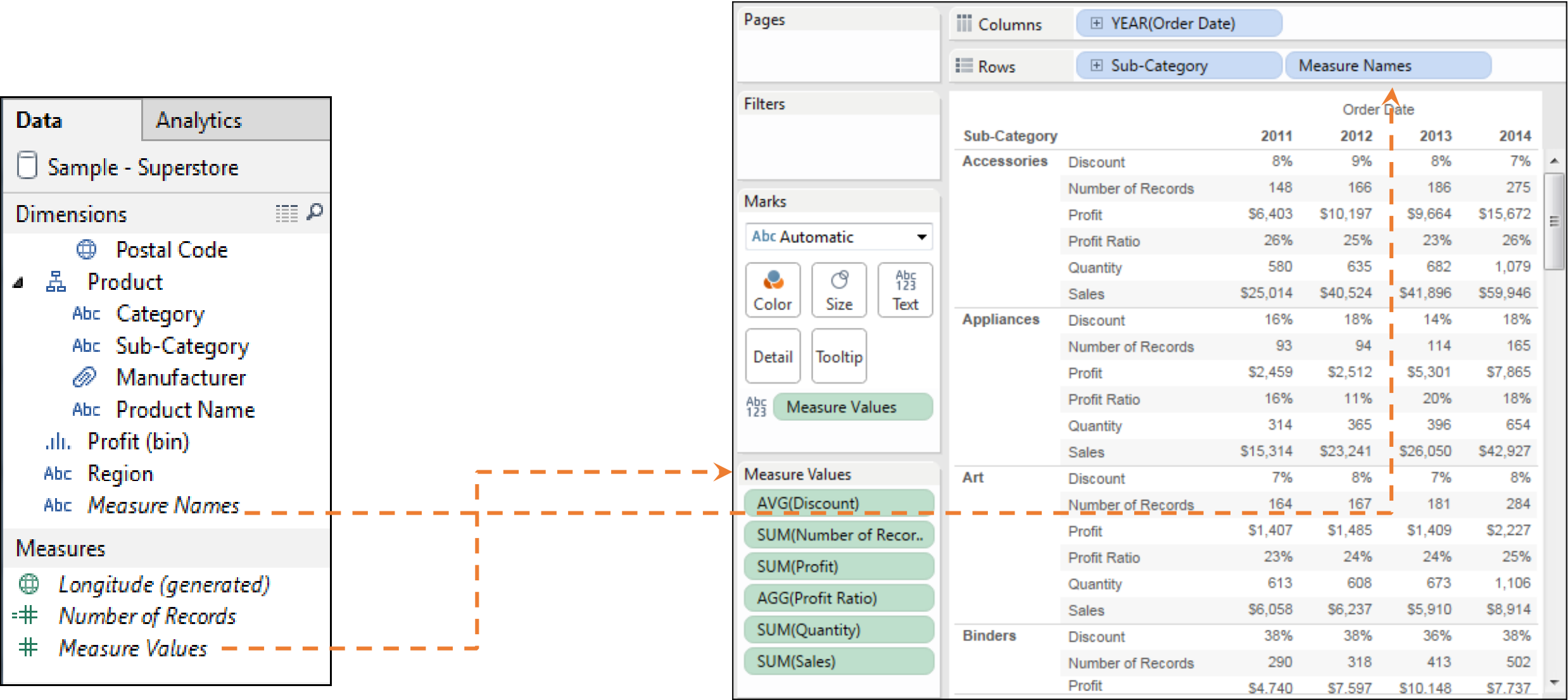
- The Tableau data pane contains a number of fields that do not come from your original data. They are automatically generated by Tableau.
- Two of the important fields are: [Measure Values](#) and [Measure Names](#).

Measure names appear at the bottom of the dimension area. It contains names of all measures in the data collected in the single fields with discrete values.



# Using Measure Values and Measure Names

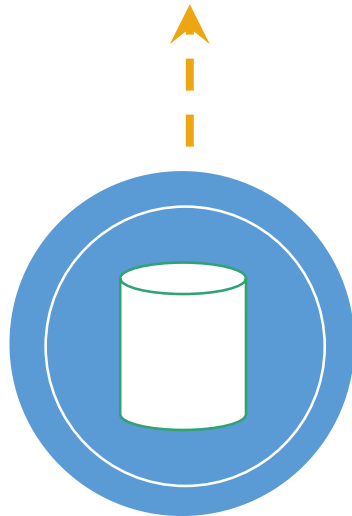
The image illustrates where Measure Names and Measure Values fields in a view are used.



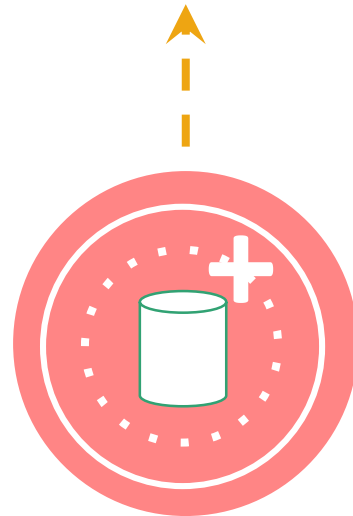
# Number of Records Measure

The number of records field is another field automatically created by Tableau for each data source added.

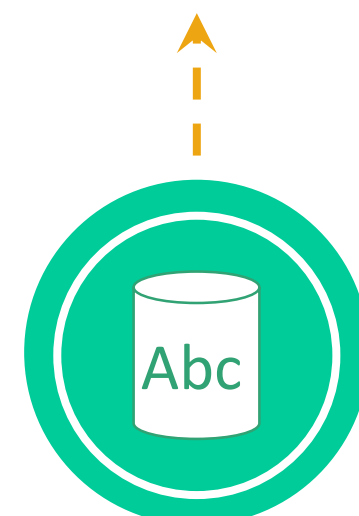
It is not a part of the underlying data.



It represents the number of rows in the data source.



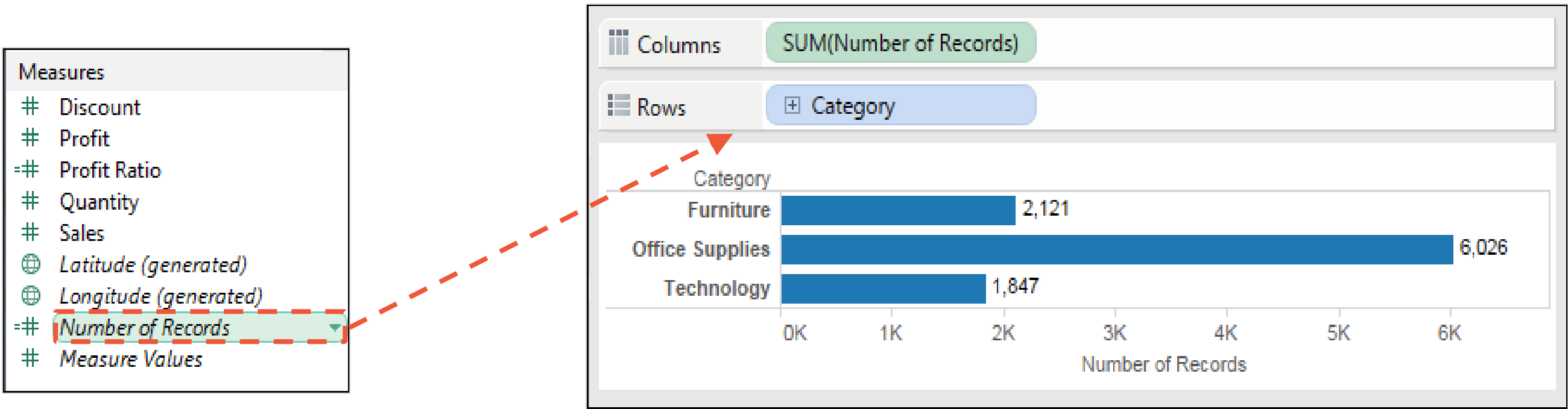
It can prove more useful with categorical data













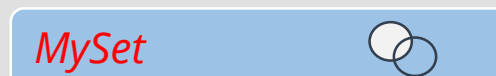
# Using the Number of Records Measure

The image illustrates where the number of records field is used to analyze the total orders placed for each product category.



# Visual Cues for Fields

Tableau provides many visual cues to help you evaluate the type of data displayed in the rows or columns shelves:

Icon	Description
	The field is a level in a multidimensional hierarchy.
	The field is blended with a field from another data source.
	The field is a user filter and used when publishing to the web.
	A gray field on the Filters shelf indicates a context filter.
	The arrow icon indicates that a forecast is being displayed for the field.
	The field is from a secondary data source.
	The field is incompatible with one or more other fields in the view.
	The Venn diagram icon indicates a set.
	A field name shown in italics indicates a filtered set.

# Use Case 1

Genelia wants to design a discount strategy to increase sales. For this, she needs to analyze the quantity sold as a dimension to compare it against the sales trend.

Let's understand this through a demonstration.







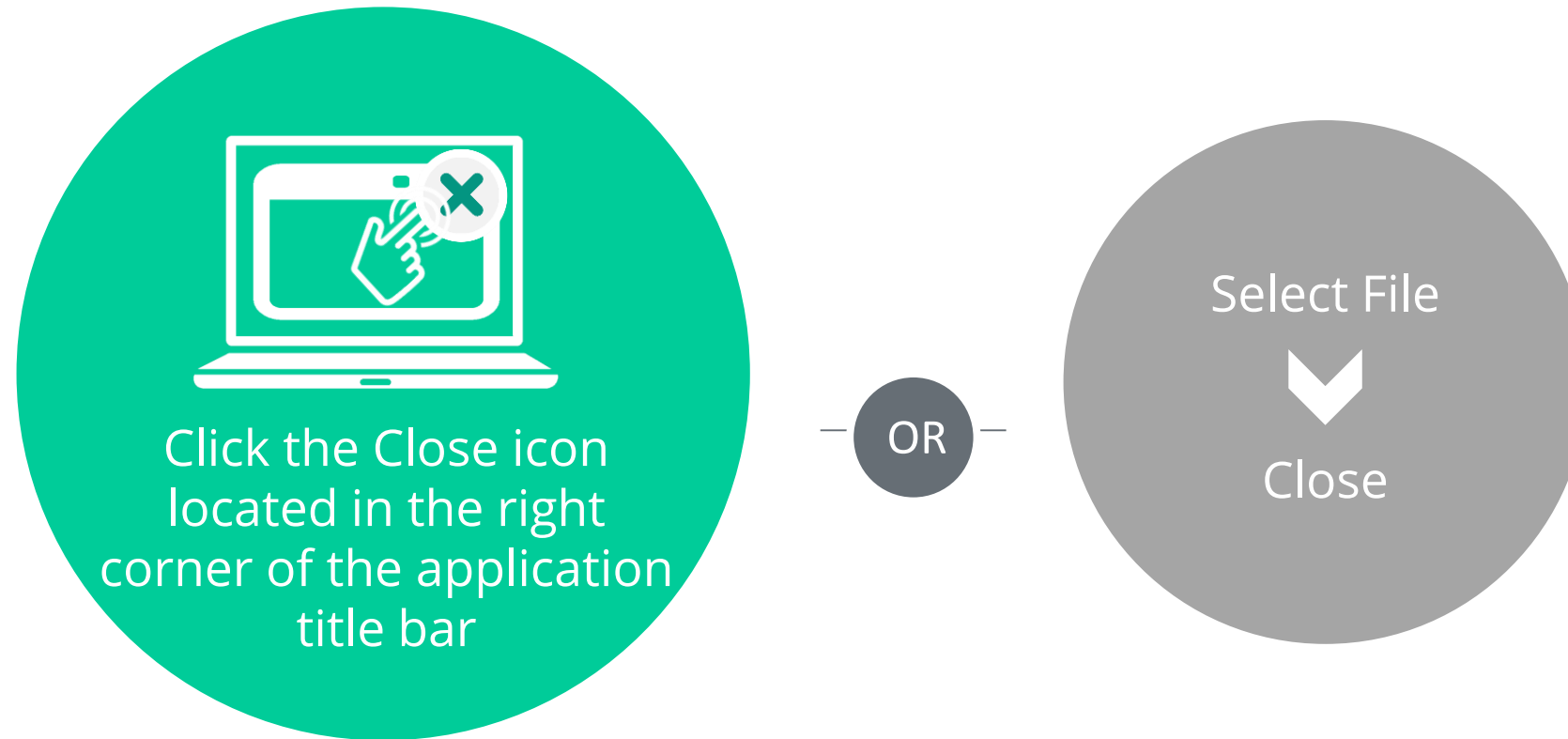
## Demo—Changing Data Roles

Demonstrate how to convert the quantity measure to a dimension and convert the quality dimension from discrete to continuous and create a bar chart displaying sales by quantity



# Closing Tableau Application

One of the following methods can be used to close Tableau application:





# Quiz

**TABLEAU  
DESKTOP 10**

## QUIZ

1

Which of the following is NOT a part of the data source page?

- a. Preview pane
- b. Join area
- c. Toolbar
- d. Metadata area



## QUIZ

1

Which of the following is NOT a part of the data source page?

- a. Preview pane
- b. Join area
- c. Toolbar
- d. Metadata area



The correct answer is **c.**

Toolbar is a part of the Tableau workspace.



## QUIZ 2

In the Tableau workspace, the sheet tabs are arranged at the \_\_\_\_ .

- a. top
- b. bottom
- c. left
- d. right



## QUIZ 2

In the Tableau workspace, the sheet tabs are arranged at the \_\_\_\_ .

- a. top
- b. bottom
- c. left
- d. right



The correct answer is **b.**

In the Tableau workspace, the Sheet tabs are arranged at the bottom.

## QUIZ 3

What does a red chain link visual cue represent?

- a. The field is blended with a field from another data source.
- b. The field is linked to a website.
- c. The dimension is linked to a measure in the same data source.
- d. The dimension is linked to another dimension in the same data source.



## QUIZ 3

What does a red chain link visual cue represent?

- a. The field is blended with a field from another data source.
- b. The field is linked to a website.
- c. The dimension is linked to a measure in the same data source.
- d. The dimension is linked to another dimension in the same data source.



The correct answer is **a.**

The red chain link icon means that the field is (or can be) blended with a field from another data source.



# Guided Exercise

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# Guided Exercise 1—Problem Statement

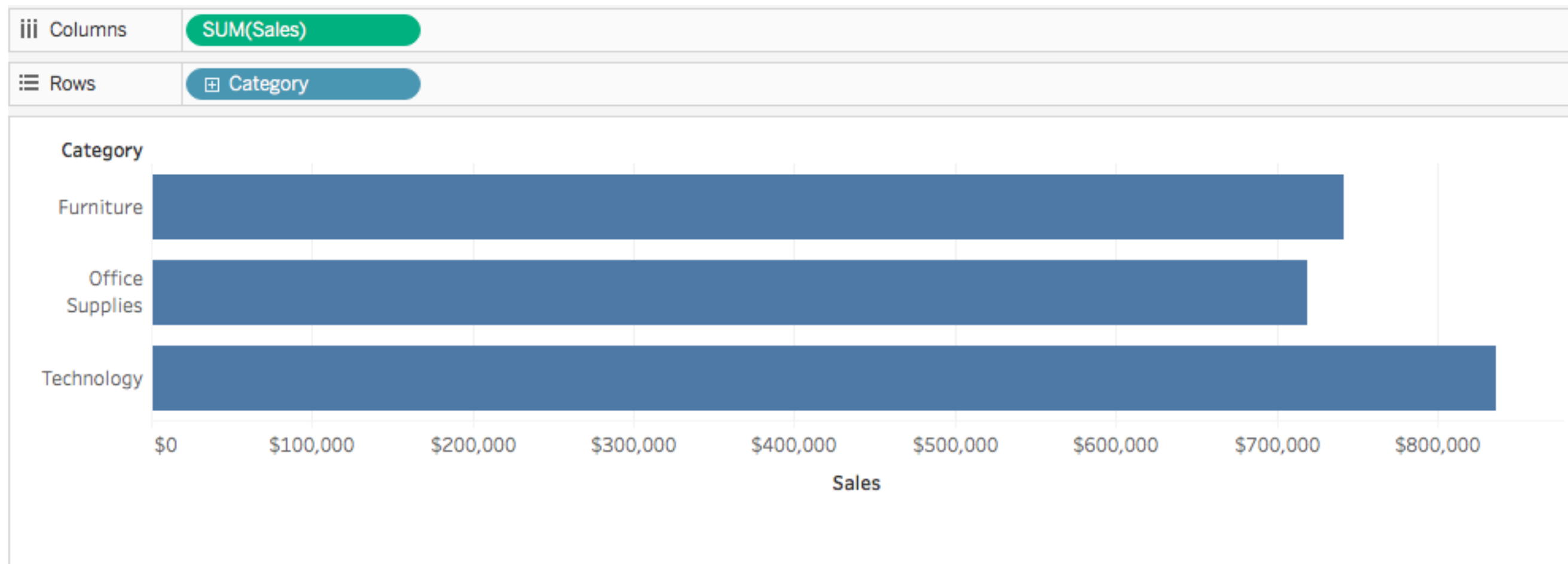
Genelia has to design an advertising campaign for certain product categories across various regions. First, she has to analyze how each of the product categories is performing in different regions. For this, she needs to create a bar in the bar chart that shows the sales values for each product category across various regions. Using the Sample-Superstore saved data source, create a worksheet and answer the following questions:

- Which product category has the highest sales in the East region?
- Which region recorded the lowest sales of office supplies?

# Guided Exercise 1—Solution

A

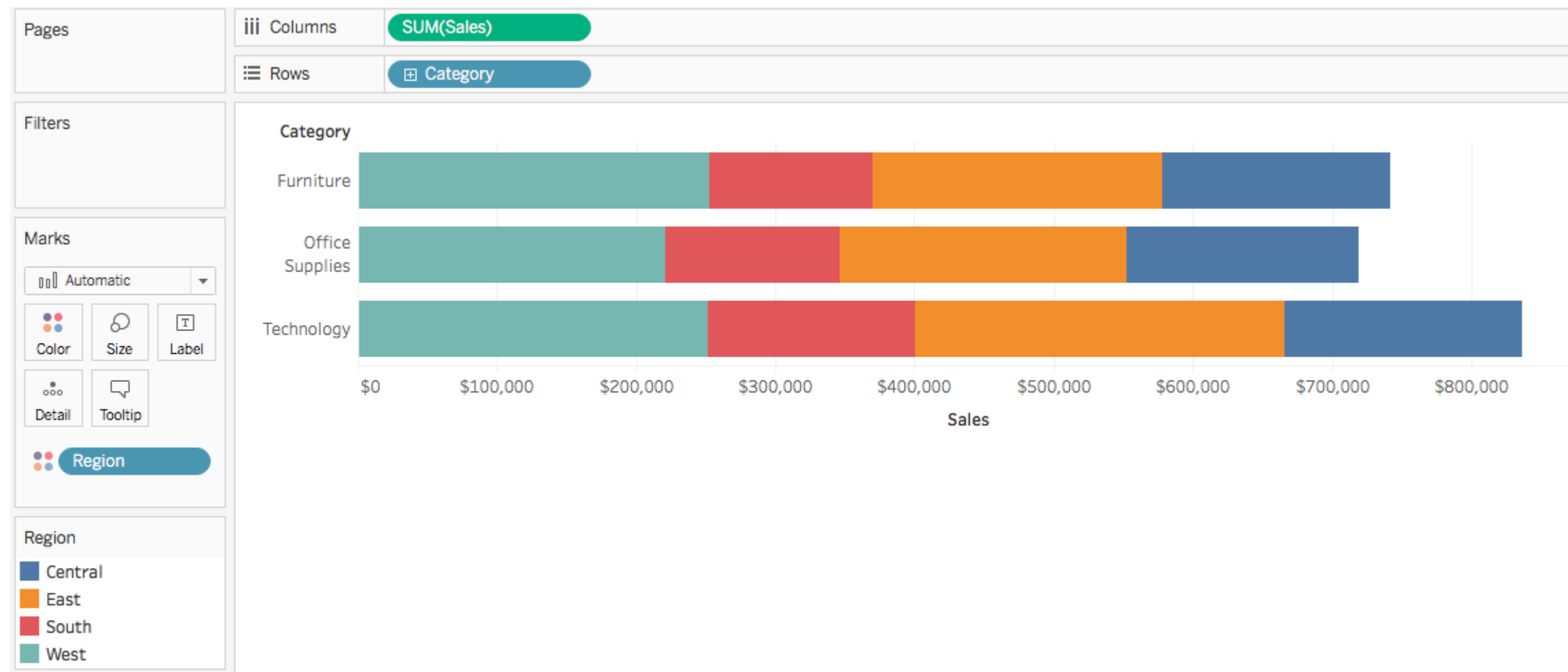
First, Genelia creates a bar chart showing sales by category:



# Guided Exercise 1—Solution

A

Then, Genelia adds the Region dimension using different colors to create the bar in bar chart:





# Key Takeaways

- The start page in Tableau Public is a central location from which you can connect to your data.
- The Data Source page is used to make changes to the Tableau data sources.
- The Tableau workspace consists of menus, a toolbar, the data pane, cards, shelves, and one or more sheets.
- Text, Date, Date-Time, and Numeric are some of the data types supported by Tableau.
- Data roles depict the behavior of the fields in the view.
- Visual cues help us evaluate the type of data displayed.

**This concludes “Exploring Tableau Interface.”**