



Tableau 10





Creating Dashboards in Tableau

What's In It For Me

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

Explain how to build interactive dashboards

List the best practices for creating effective dashboards

Explain dashboard and running actions

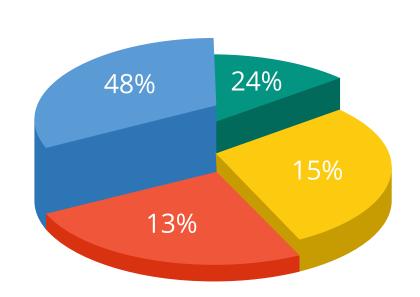
Describe stories and how to build them

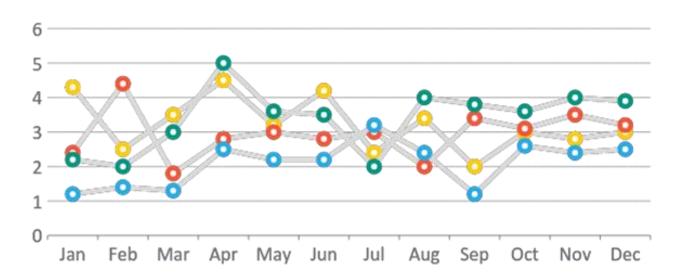
Explain how to share your dashboards with others





What Is a Dashboard





A dashboard is a real-time, easy-to-read user interface that presents data graphically.

Dashboards provide users with concise, visually appealing, and interactive views of data to enable quick, data-driven decisions.

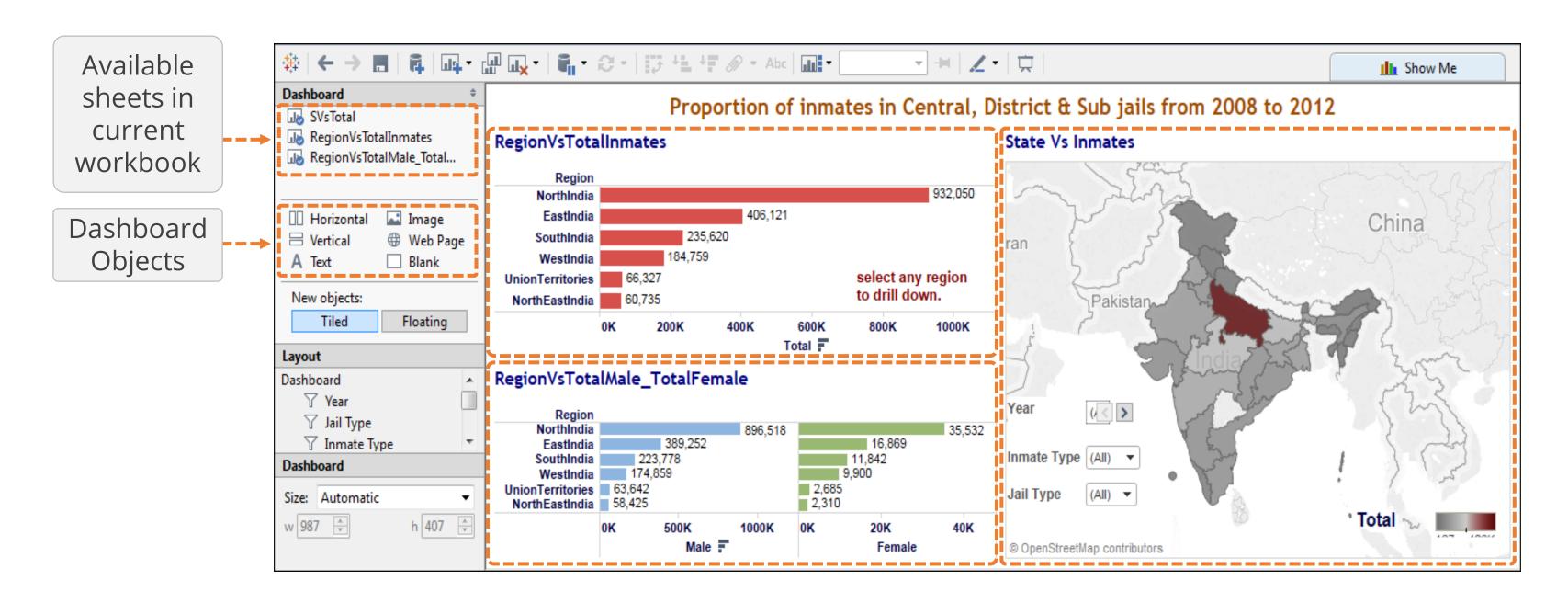
A dashboard consists of multiple worksheets arranged in layout containers (tiles).

A dashboard also includes filters and actions that impact some or all worksheets in the dashboard.



Building Dashboards

Dashboards are built by dragging and dropping worksheets into a layout container with the Dashboard. In this example, three worksheets have been added to the Dashboard.

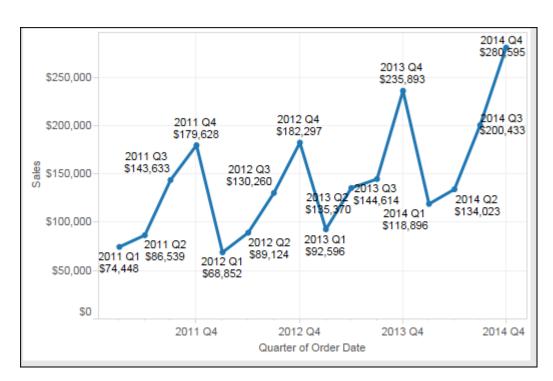


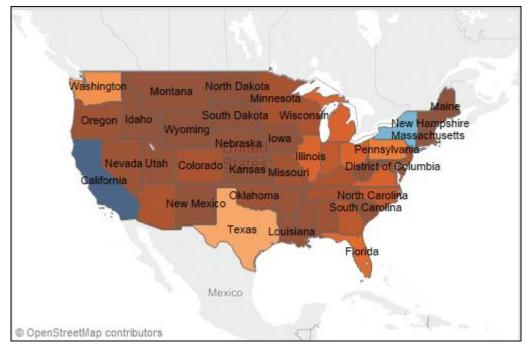


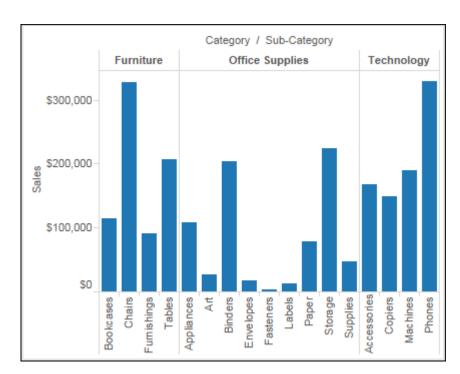
Best Practices for Creating Effective Dashboards

CHOOSE AN APPROPRIATE VISUALIZATION

You can make your analysis more effective by choosing an appropriate type of visualization. For example:







When you want to display change over time, use a line chart.

When you want to analyze geographic data, maps prove to be the best choice of visualization.

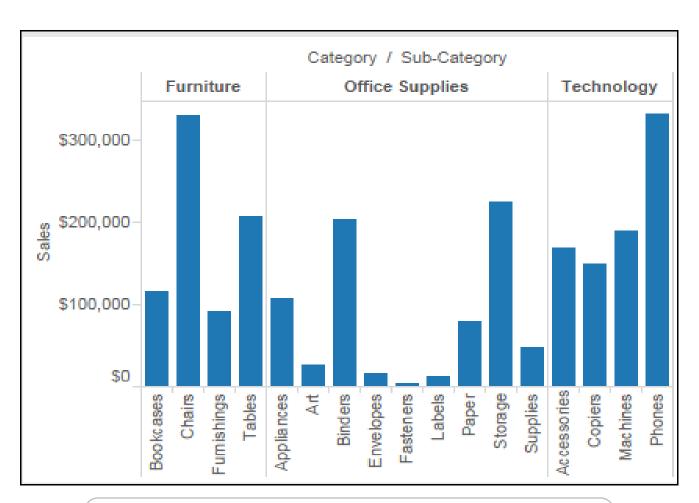
When you want to display the highest to lowest comparison, use a bar chart.



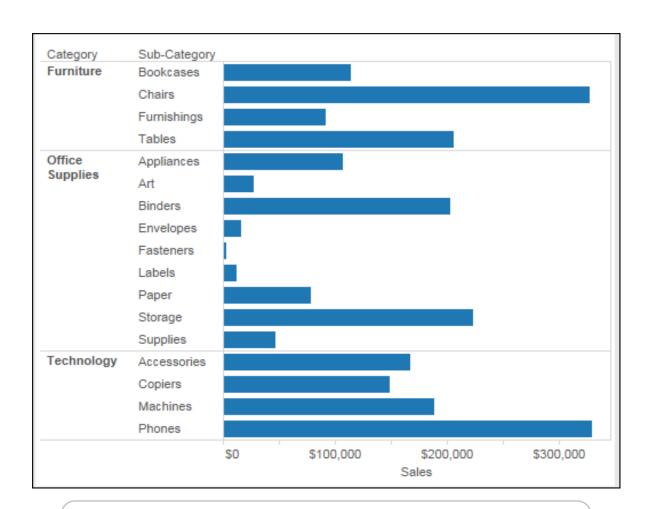
Best Practices for Creating Effective Dashboards

CHOOSE AN APPROPRIATE ORIENTATION

You can make your data more readable by choosing an appropriate type of orientation, based on the type of data you are analyzing. For example:



It is difficult to read long names vertically.



It's much easier to read the names horizontally.



Best Practices for Creating Effective Dashboards

CHOOSE AN APPROPRIATE SIZE

While creating dashboards, choosing the appropriate size of view is another important consideration.



Use Case 1



After analyzing the sales and profit of the company's phones across all the states, Genelia now wants to propose the product launch strategy to the CEOs.

For this, she needs a dashboard that will display the entire analysis in a single sheet. This will offer an overall view that will help the CEOs to make effective decisions.

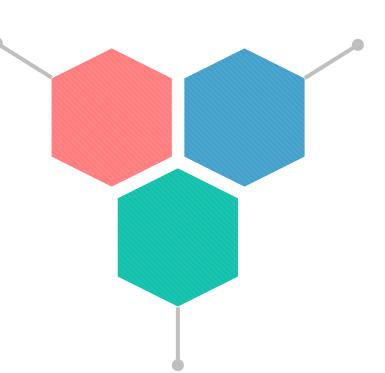
Let's understand this with the help of a demonstration!





WHAT ARE ACTIONS?

Tableau allows you to add context and interactivity to your data through the use of Actions.



An Action is when a user clicks, selects, or hovers over a dashboard item, and something happens to one or more of the views in the dashboard.

For example, clicking a URL within the view could create the action of a website opening in a new browser window.

USING ACTIONS

Actions can be used to:

Filter views in a Dashboard

Highlight data in Dashboard

Launch a webpage (URL)



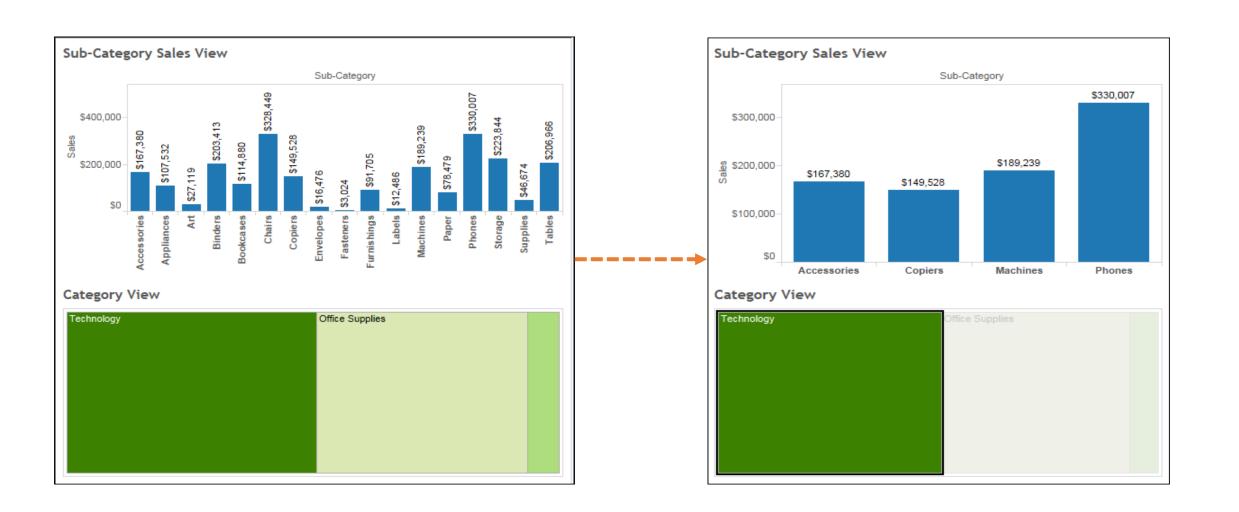
FILTER ACTION

Filter actions are used to send information from a selected mark to another sheet showing related information.

Filter views in a Dashboard

Highlight data in Dashboard

Launch a webpage (URL)





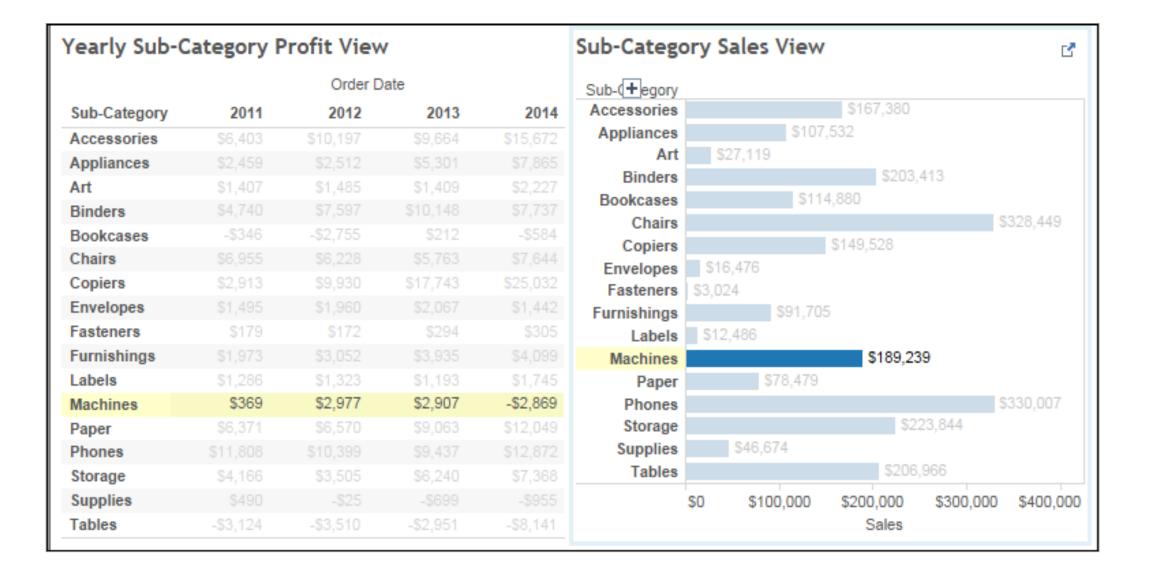
HIGHLIGHT ACTION

Highlight actions allow you to call attention to marks of interest by highlighting selected marks and dimming all others.

Filter views in a Dashboard

Highlight data in Dashboard

Launch a webpage (URL)





URL ACTION

A URL action is a hyperlink that points to a web page, or a file, for more information about your data.

Filter views in a Dashboard Highlight data in Dashboard Launch a webpage (URL)

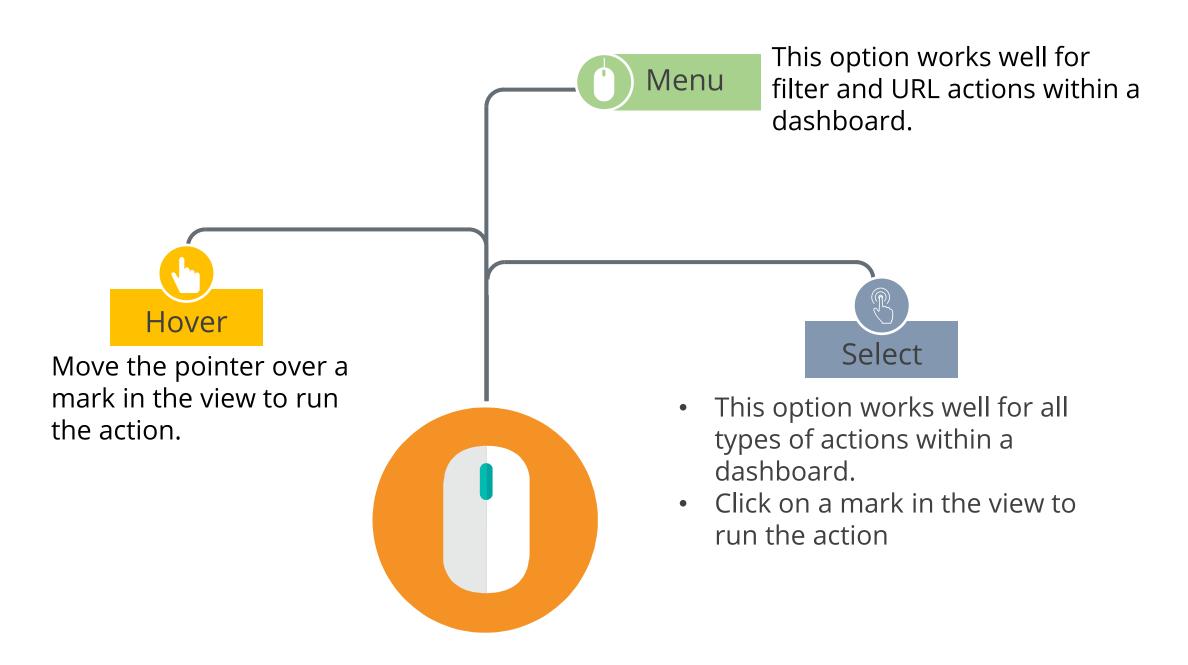






Running Actions

An action can be triggered by multiple ways.



Use Case 2



The CEOs need a state search functionality to be implemented in Genelia's existing dashboard.

This will help them study the population and additional details of the selected states where the new product is to be launched.

Based on further analysis, they can decide the product quantity to be included in the first launch process.

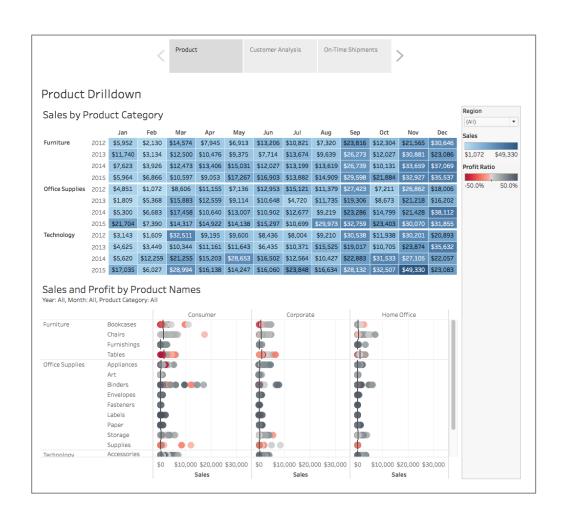
Let's understand how this can be done in Tableau through a demonstration.

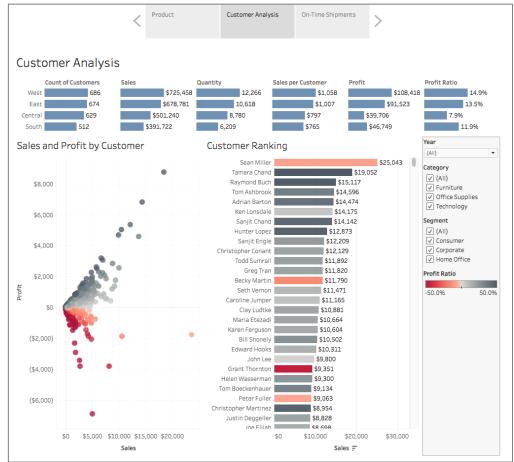


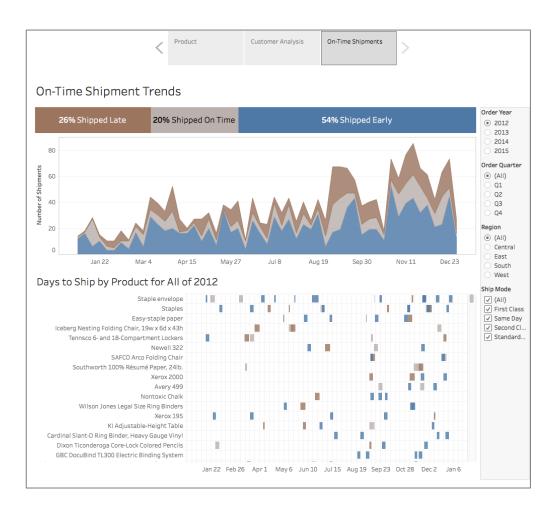


What Is a Story?

- A Story is a collection of dashboards and/or worksheets.
- Stories are a series of visualizations that are organized in a sequence to convey information (to "tell a story").
- Stories were designed specifically to make static powerpoint presentations obsolete the presenter can guide a discussion where she wants it to go, but can quickly pivot and answer questions on the fly.



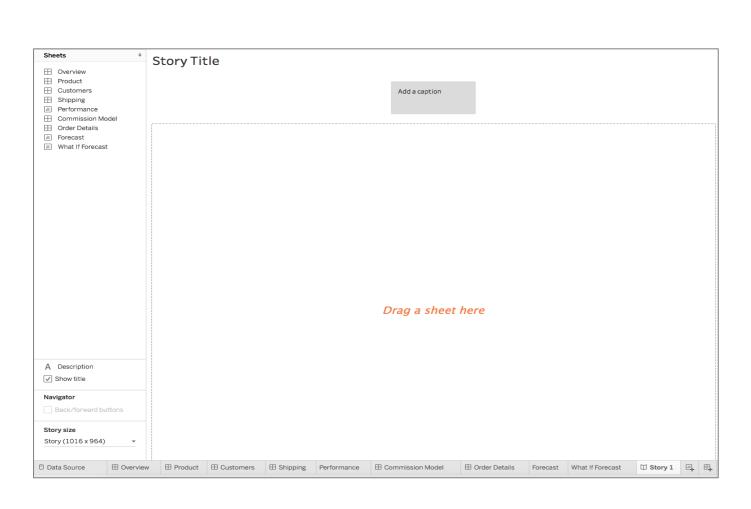


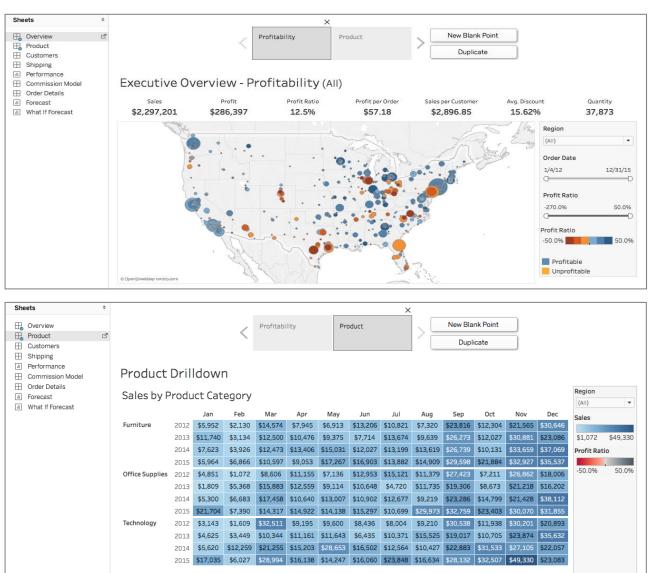




How to Build a Story

Stories are built like Dashboards - through drag and drop. In this example, the user dragged the "Overview" Dashboard and the "Product" dashboard into a story. Now, the user can click from one Dashboard to the next with the buttons at the top of the Story.









You can share your dashboards with others in the following ways:

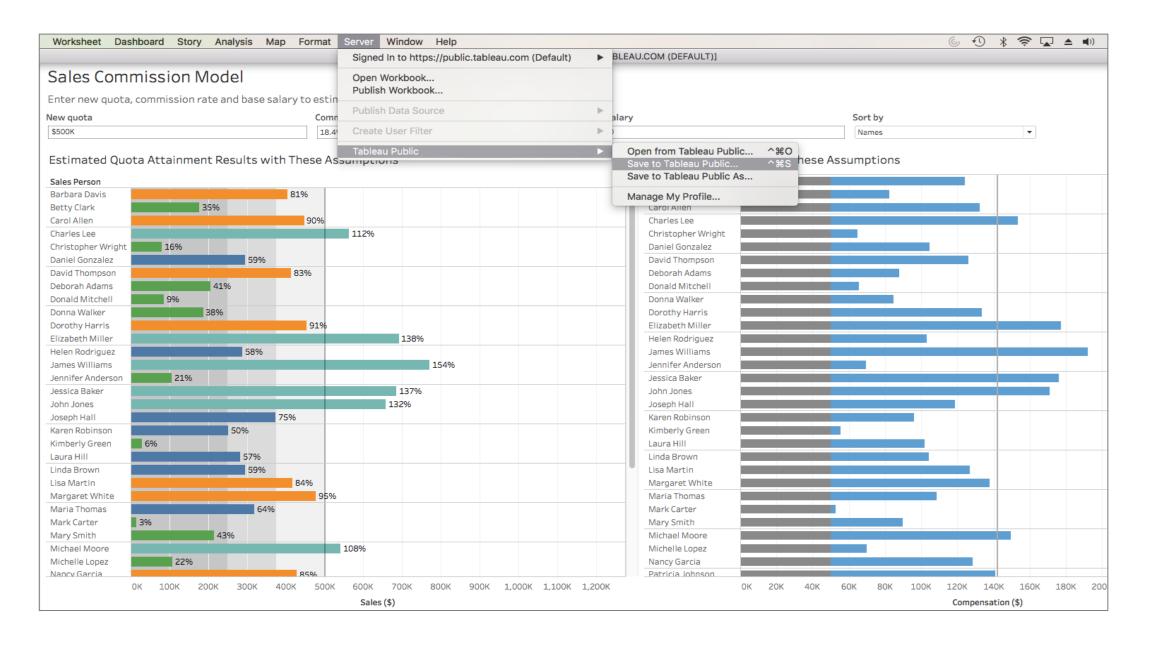
- Via Tableau Public / Server
- Via Tableau Reader
- Exporting the Dashboards

SHARING YOUR DASHBOARD VIA TABLEAU PUBLIC

Saving your Dashboard to Tableau Public (or Tableau Server) is quick and easy:

Sharing via Tableau public

Sharing via Tableau reader

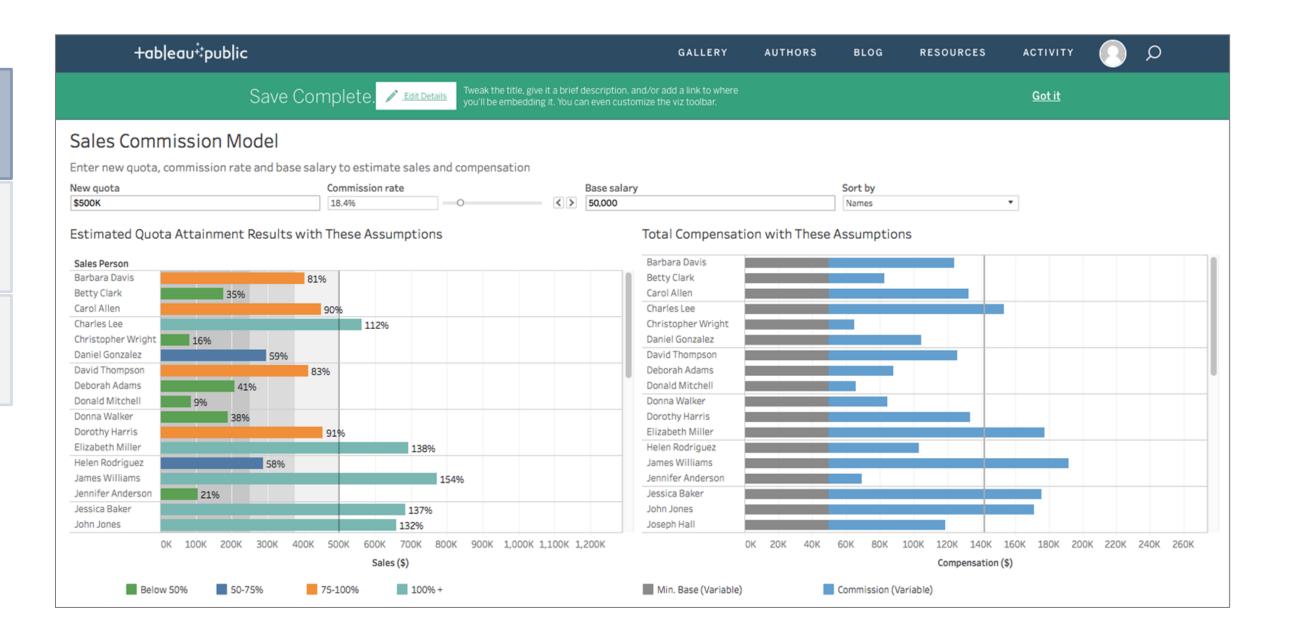




SHARING YOUR DASHBOARD VIA TABLEAU PUBLIC

Your Dashboard is posted to a webpage; email the URL to colleagues to share your work:

Sharing via
Tableau
public
Sharing via
Tableau
reader



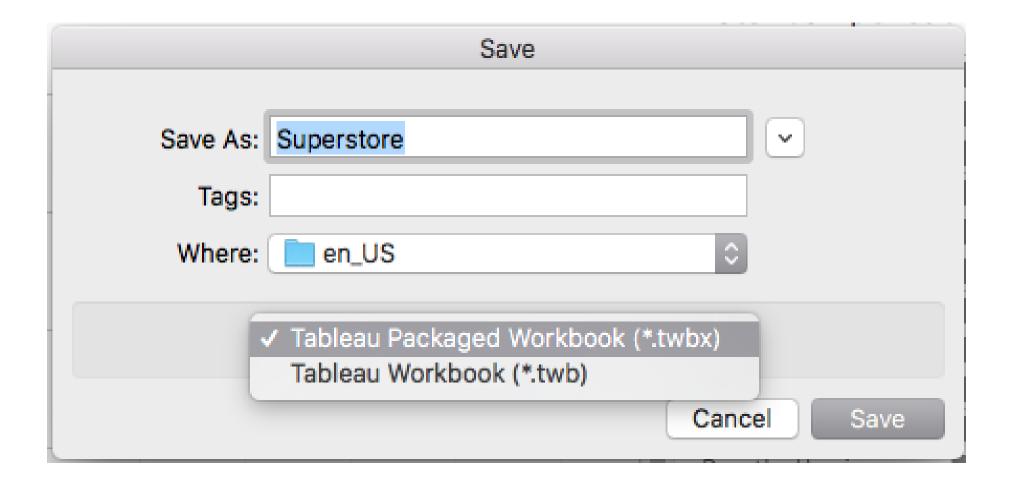


SHARING YOUR DASHBOARD VIA TABLEAU READER

Save your Dashboard as a Tableau Packaged Workbook; then email it to your colleagues (requires that the recipients have Tableau Reader installed on their PC):

Sharing via
Tableau
public
Sharing via
Tableau
reader

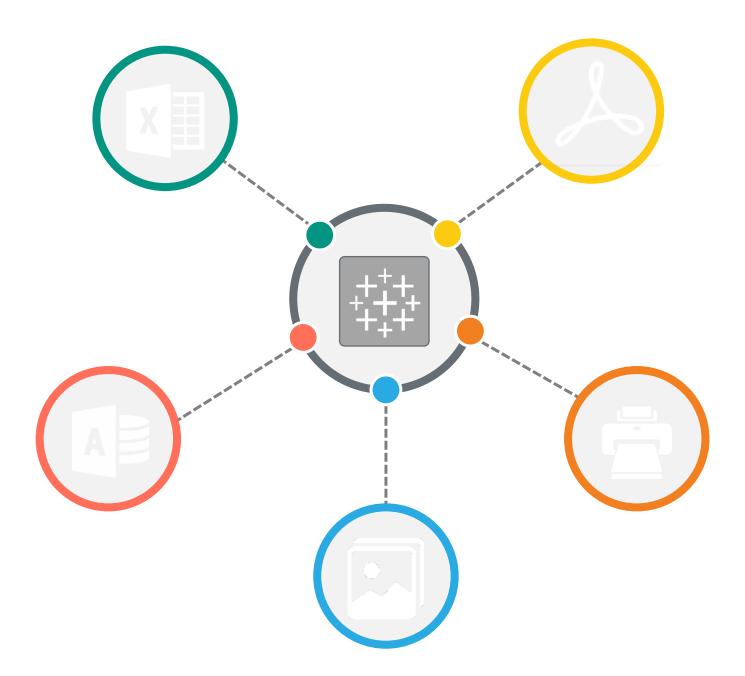
Exporting
Dashboards



EXPORTING DASHBOARDS: FORMATS

Sharing via Tableau public

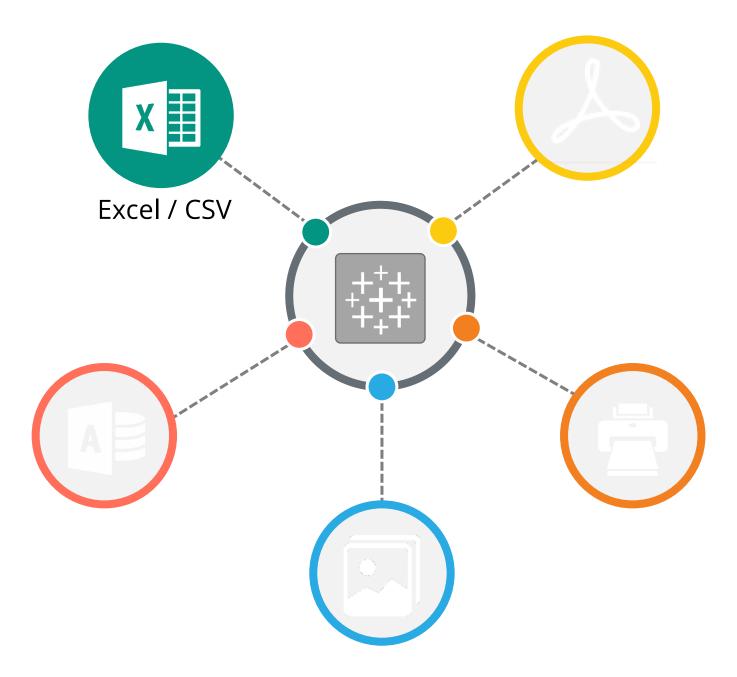
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EXPORTING DASHBOARDS: FORMATS

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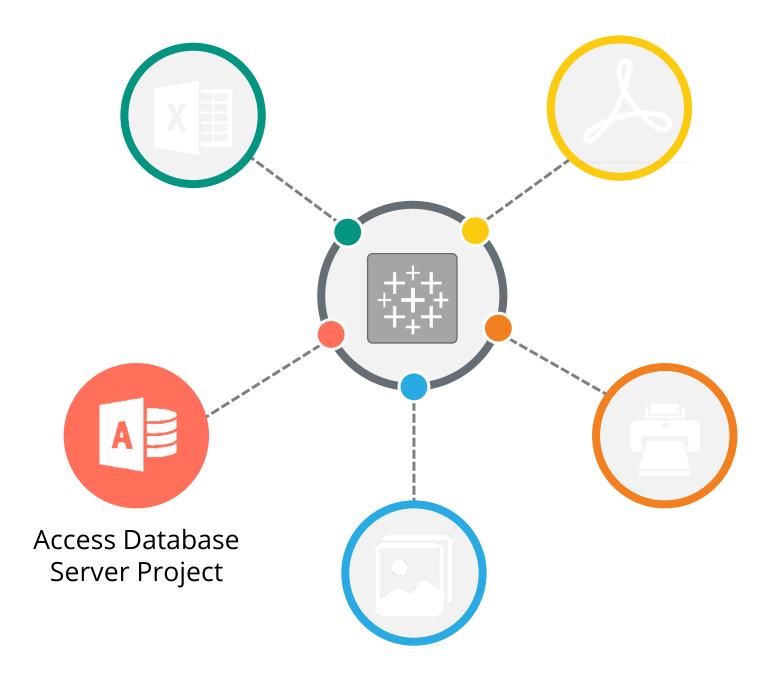
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EXPORTING DASHBOARDS: FORMATS

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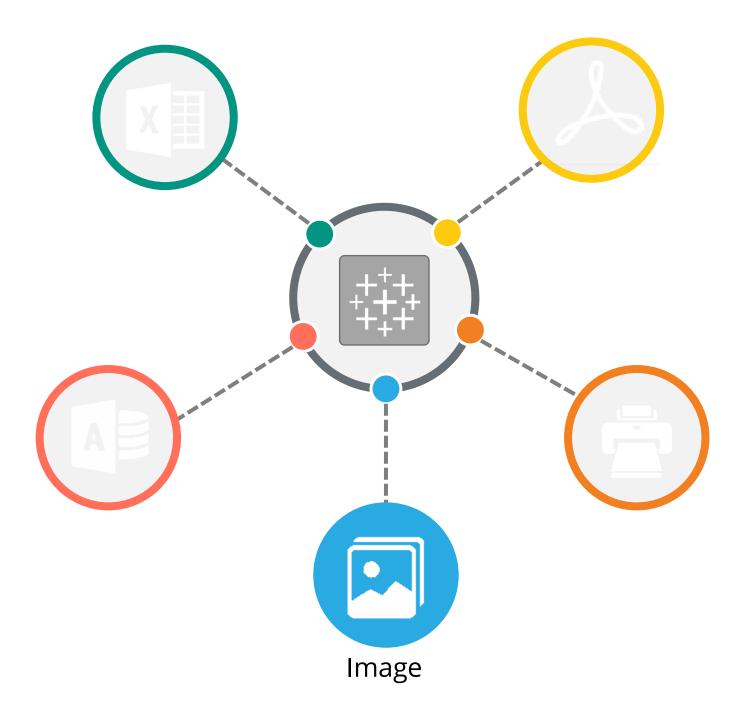
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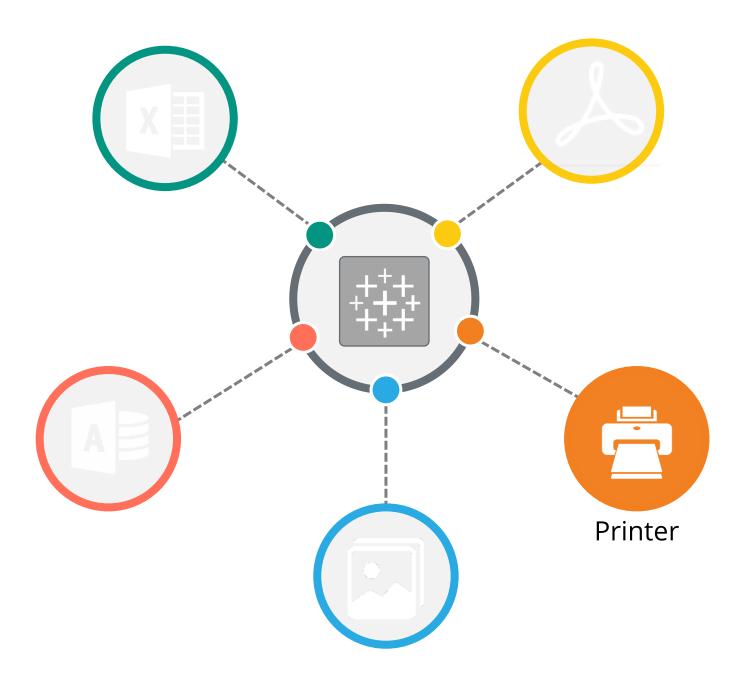
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EXPORTING DASHBOARDS: FORMATS

Sharing via Tableau public

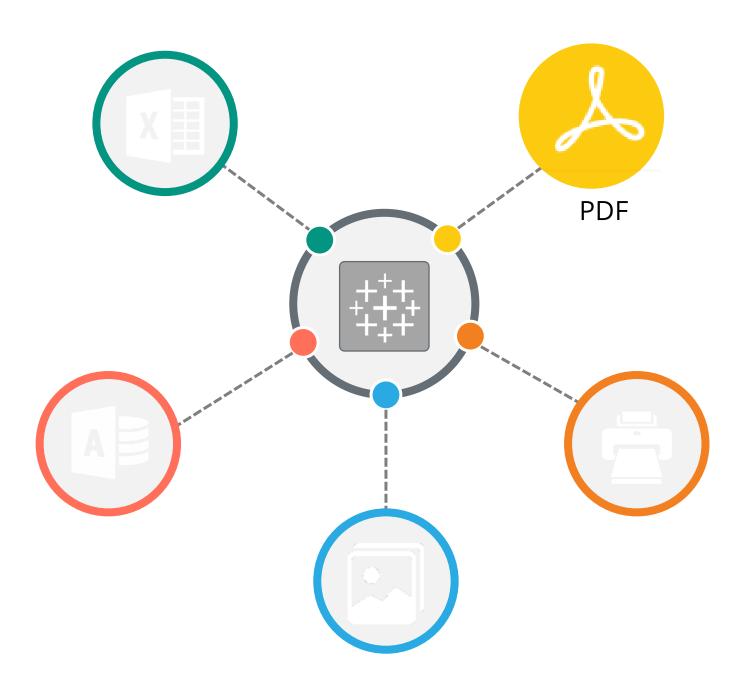
Sharing via Tableau reader



EXPORTING DASHBOARDS: FORMATS

Sharing via Tableau public

Sharing via Tableau reader



actions are used to send information from a selected mark to another sheet showing related information.

- a. Filter
- b. Highlight
- c. URL
- d. None of the above



actions are used to send information from a selected mark to another sheet showing related information.

- a. Filter
- b. Highlight
- c. URL
- d. None of the above



The correct answer is **a**.

Filter actions are used to send information from a selected mark to another sheet showing related information.

_____ actions allow you to call attention to marks of interest in the related view within a dashboard.

- a. Filter
- b. Highlight
- c. URL
- d. None of the above



_____ actions allow you to call attention to marks of interest in the related view within a dashboard.

- a. Filter
- b. Highlight
- c. URL
- d. None of the above



The correct answer is **b**

Highlight actions allow you to call attention to marks of interest in the related view within a dashboard.

A sequence of visualizations arranged in a sequence to convey information is called a _____

- a. Dashboard
- b. Story
- c. Worksheet
- d. Action



A sequence of visualizations arranged in a sequence to convey information is called a _____



- b. Story
- c. Worksheet
- d. Action



The correct answer is **b**

A Story is a sequence of visualizations arranged in a sequence to "tell a story" to the user.

Which of the following formats will you use to save your work with a local copy of the dataset?

- a. Workbook
- b. Bookmark
- c. Packaged workbook
- d. Crosstab to excel



Which of the following formats will you use to save your work with a local copy of the dataset?

- a. Workbook
- b. Bookmark
- c. Packaged workbook
- d. Crosstab to excel



The correct answer is **c**

Packaged workbook will be used to save the work with a local copy of the dataset.

Guided Exercise

Problem Statement

In today's business world, maintaining steady economic growth has become the most important factor for any enterprise. Keeping this in mind, a U.S.-based retail company is strategizing to improve business in low performing areas as well as extend its outlets in areas that contribute the maximum to sales and profit. For this, Mark Anthony, the general manager of the company, needs a 360-degree view of region, state, subcategory, sales, and profit. This will help him determine the regions and states eligible for concession campaigns and loyalty programs.

- What is the profit of the chairs sub-category in the region with the highest sales?
 (Hint-Sort region with respect to sales in descending order, select the region with highest sales, observe profit made by chairs sub-category)
- In East Region, which subcategory recorded the highest sales?
 (Hint-Select East Region in the Sales contribution sheet)

Solution

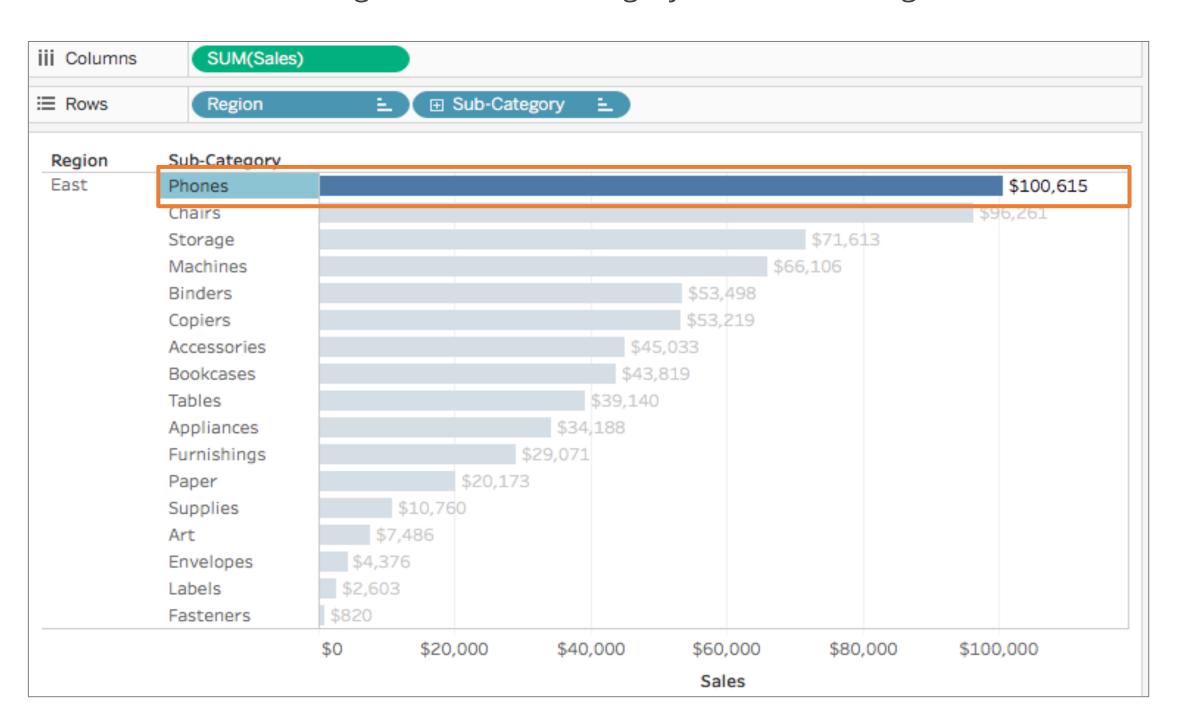
What is the profit of the chairs sub-category in the region with the highest sales?





Solution

In the East Region, which subcategory recorded the highest sales?





Key Takeaways

A dashboard is created with multiple worksheets.

Tableau allows you to add context and interactivity to your data using actions like filtering, highlighting, and linking via URL actions.

Depending on the way the action is created, you can trigger an action by using the hover, click, or menu option.

Your work can be saved either as a workbook, packaged workbook, or as a bookmark.



This concludes "Creating Dashboards in Tableau."