

Assignment 3:

Data Visualization Using Tableau (1)

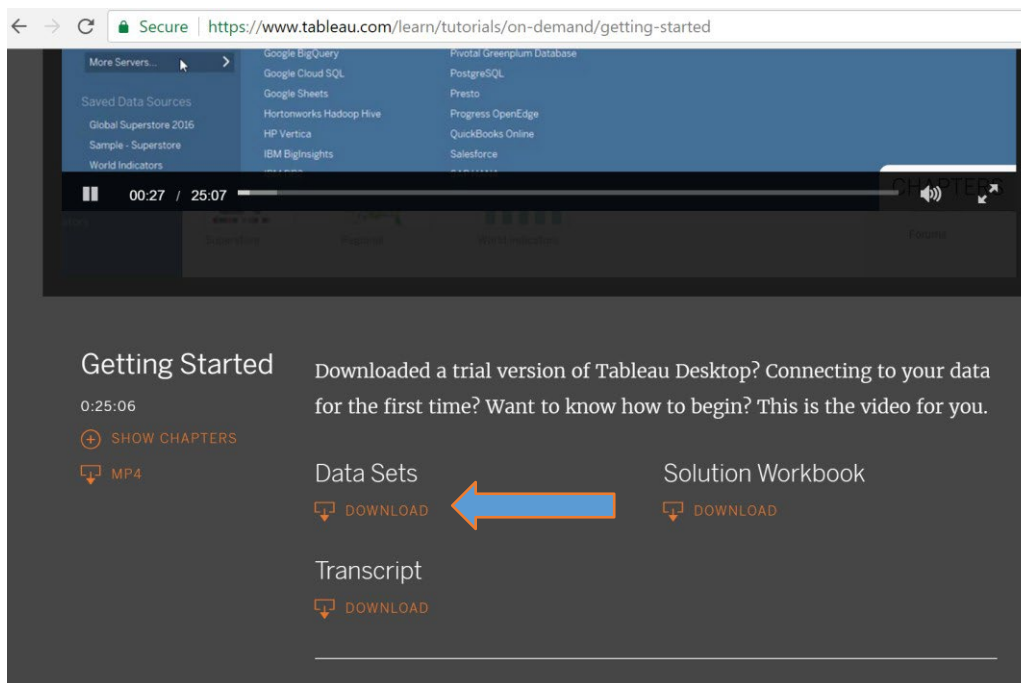
This assignment should be completed individually.

In order to do this assignment, you will need Tableau Desktop. In order to install Tableau Desktop on your laptop if you have not done so, kindly access the software from this link: <https://www.tableau.com/tft/activation> and use the following key to activate the software:

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Over the next few weeks, you will watch the training videos prepared and published by Tableau and selected by me to learn how to use Tableau Desktop. Please make sure to follow along with the examples presented in the videos using the dataset provided by Tableau (Global Superstore Orders 2016.xlsx). Then, you will complete a homework assignment each week. The videos are available here: <https://www.tableau.com/learn/training/20204>

Please note that the tutorial videos have been created using an older version of Tableau. Therefore, you may notice some differences between the version used in the videos and the version you are using. Those differences, however, are minor and may not impact how you use the software's main functionalities and features to complete the assignments.



Here is the list of the videos for this week:

- Getting Started
 - Getting Started
 - The Tableau Interface
 - Distributing and Publishing
- Visual Analytics
 - Getting Started with Visual Analytics
 - Drill Down and Hierarchies
 - Sorting
 - Ways to Filter
 - Using the Filter Shelf

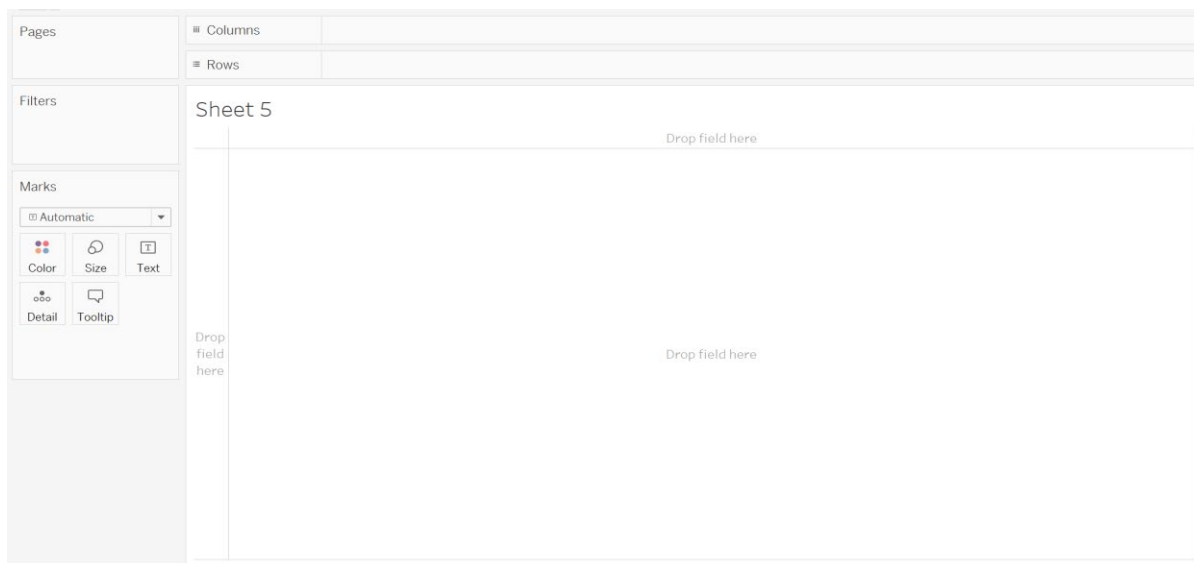
Also, chapter 1 (pages 9-23) and chapter 3 (pages 49-74) of the recommended textbook (Visual Analytics with Tableau) provide information on fundamentals of visual analytics in Tableau. While reading those chapters is helpful, it is not required.

Tasks/Questions:

- Using the Video_Games_Sales_2013-2018.xlsx dataset provided on Canvas, create a bar chart that shows total sales (2013-2018) for North America, Europe, and Japan. Use appropriate mark types and filters to generate a chart like following:



The genres in the legend should include Action, Racing, Role-Playing, Shooter, and Sports in the same order that you see above. Be sure to change the title of the sheet to “Sales by Genre (your name should be included here)”. Submit a screenshot of the chart. However, unlike my chart above, in your chart the following elements should also be visible so that I can see how you have used different features: Columns, Rows, Filters, Marks, and Legends; something like this:



You can use any colors that you want in the chart. However, the bars should be colored anyway and should contain total sales (\$) as labels.

- 2) Similar to task 1, we want to analyze sales, but this time, we would like to analyze and visualize the annual sales trends (for North America and Japan). The chart type and mark types used are also different from the ones used in the previous chart. Your chart should be like following:



Again, your screenshot should show the other elements including Columns, Rows, Filters, Marks, and Legends.

What to submit:

You will turn in two files:

1. A one-page Word document that contains two screenshots associated with the two tasks. You will not provide any explanations for the tasks. Just copy and paste the two screenshots! Make sure to mention your name and the name of the assignment in the document.
2. A Tableau packaged workbook file (.twbx) that includes two worksheets for the two tasks. **Do not submit the .twb file.**