Hyperiondev

TASK

Data Visualisation III

Visit our website

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Tableau Desktop

Tableau Desktop is software that allows people to connect a database and easily create data visualisations. It has become one of the biggest and most used data visualisation tools today. Through Tableau, you can create many different and interactive visualisations and dashboards.

In this task, we will explore and learn the fundamental skills of Tableau Desktop.

Get in touch

Connect for support

Remember that with our courses, you're not alone! You can contact your mentor to get support on any aspect of your course.

The best way to get help is to login to **www.hyperiondev.com/portal** to start a chat with your mentor. You can also schedule a call or get support via email.

Your mentor is happy to offer you support that is tailored to your individual career or education needs. Do not hesitate to ask a question or for additional support!

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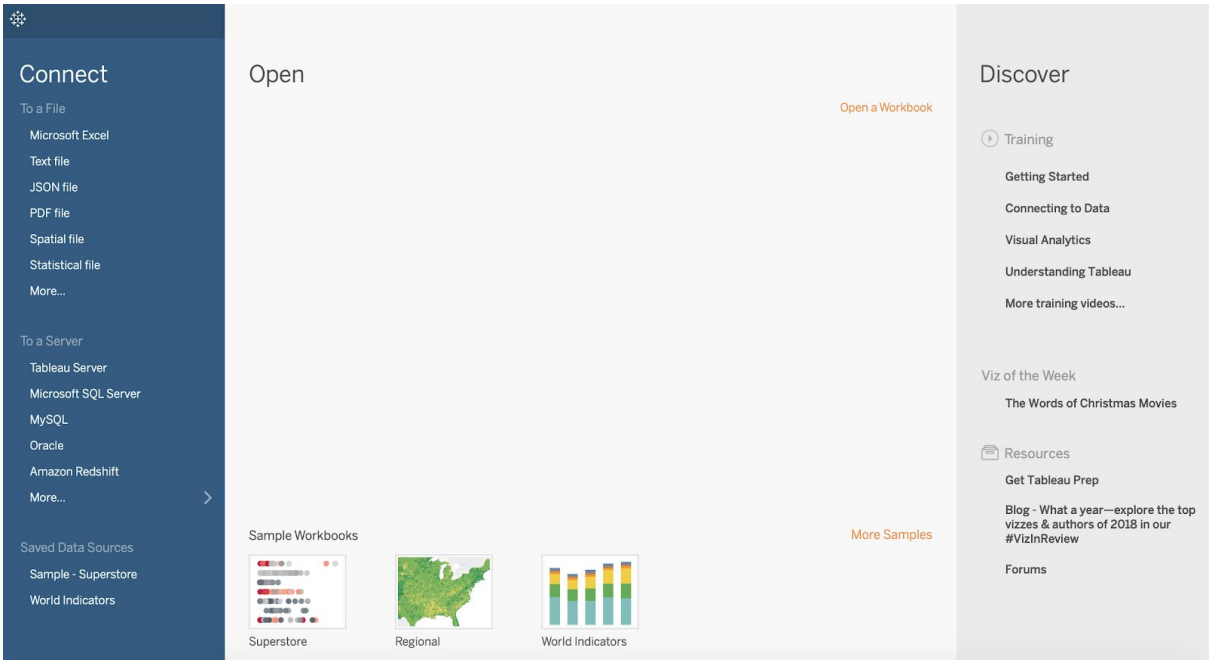
INSTAL TABLEAU

You can download and install a free 14-day trial of Tableau desktop from their site **here**.

LOAD DATA



As you can see, Tableau offers a variety of ways to connect to your “data source” - this can range from a simple .csv file to a server such as Google Analytics.

We can import sample .csv data by importing from “text files”. Once you do so, you will see a preview of your uploaded data:

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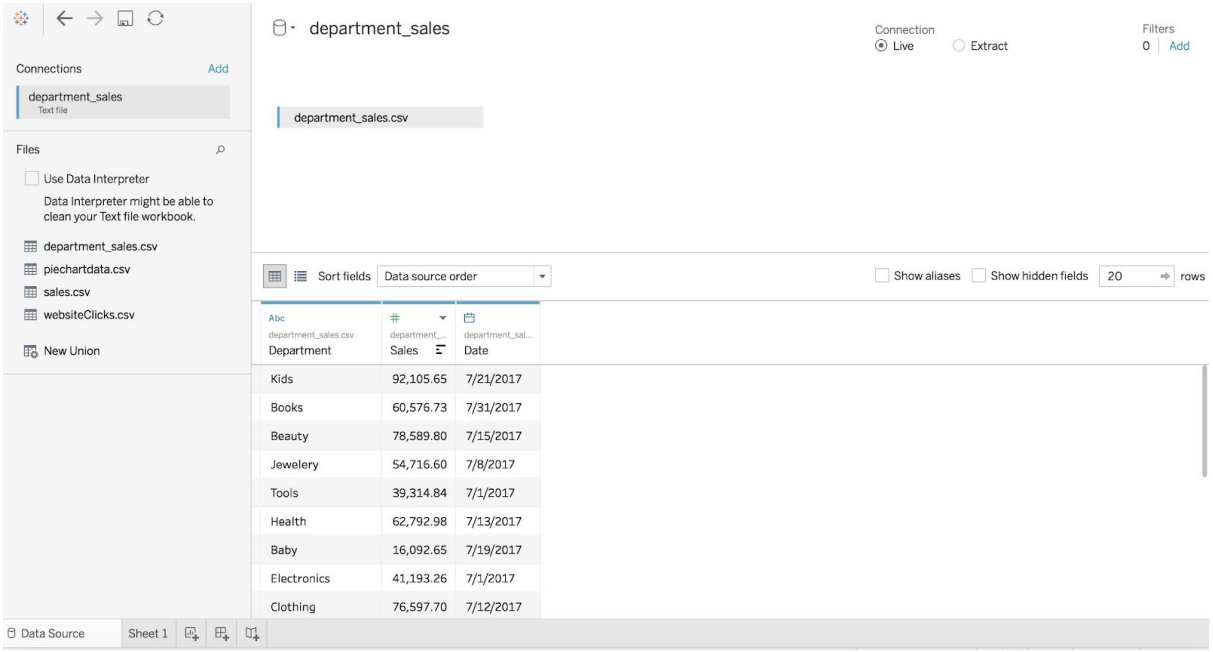
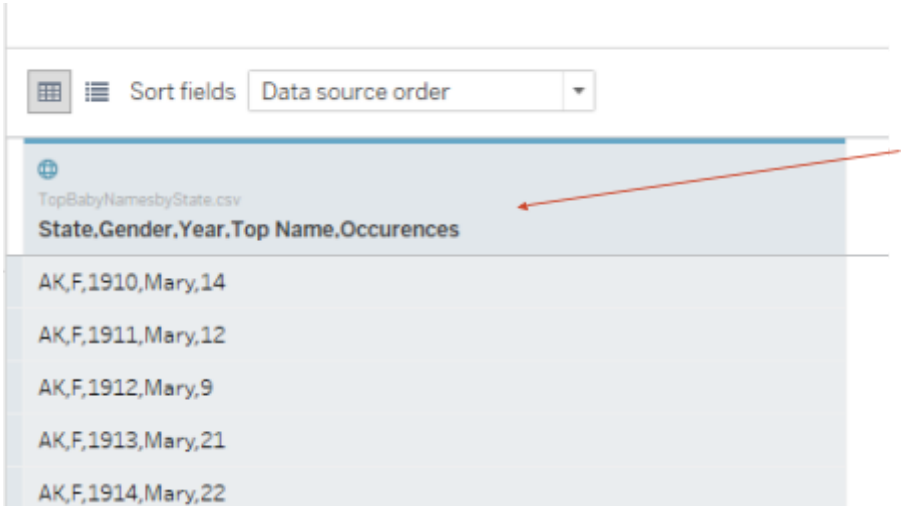


A note from our coding mentor
Ridhaa

When working with .csv files you may have to split the data before you can proceed. If once you have imported the .csv file the data is listed in one column separated by columns (as shown below), you can right-click on the column and select 'Split'. This should put all the data into separate columns. Be sure to rename the columns (Right-click > Rename).



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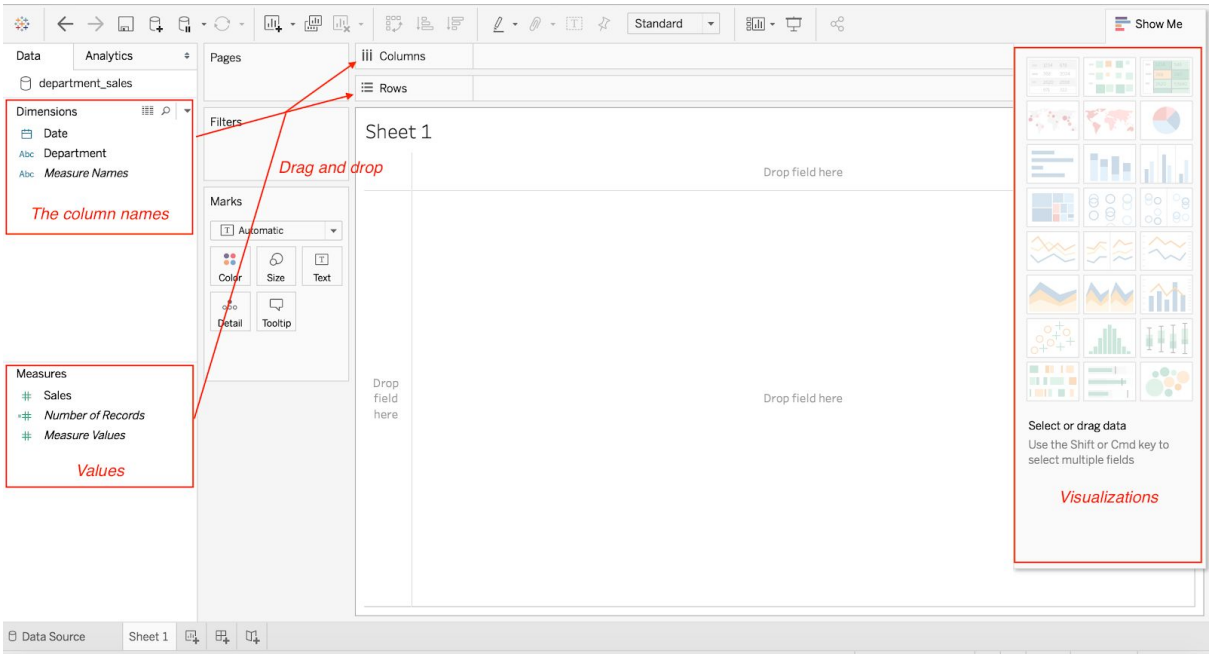
When you are ready, you can click on “Sheet 1” at the bottom to create a new visualisation sheet.

CREATE VISUALISATIONS



On the left side, the data file has been extracted and sorted. You can simply do a drag and drop onto the “columns” and “rows” depending on how you want your visualisation to look.

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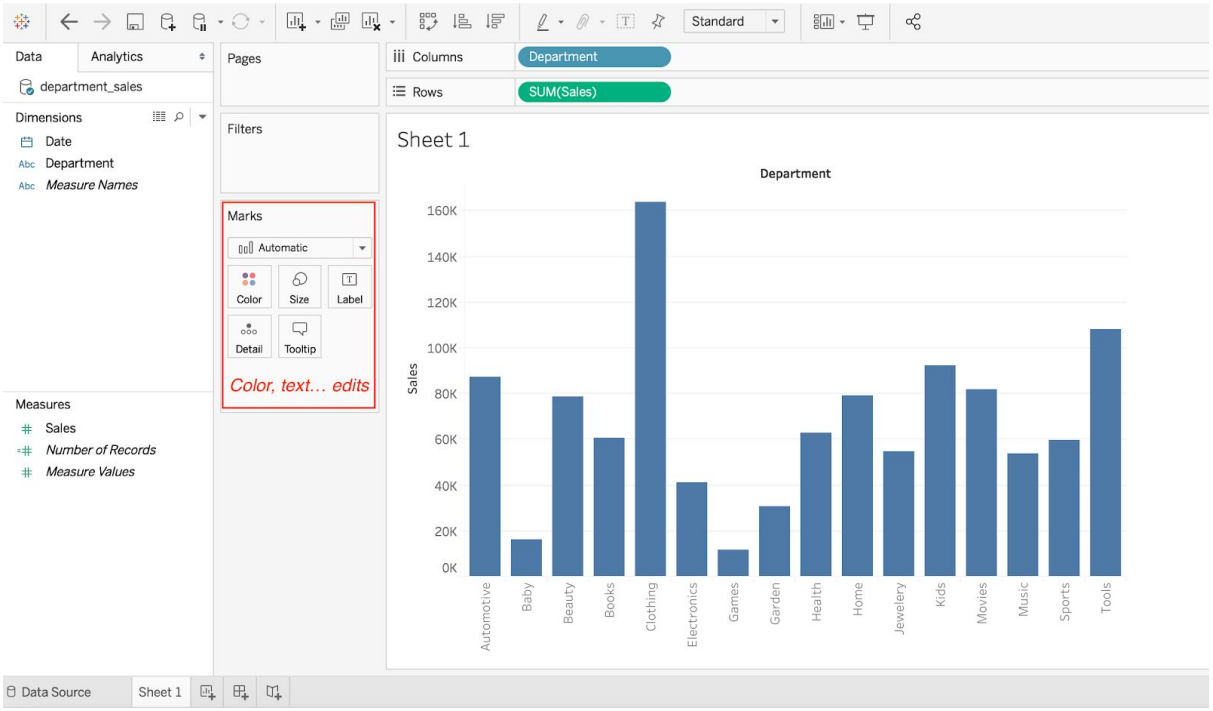
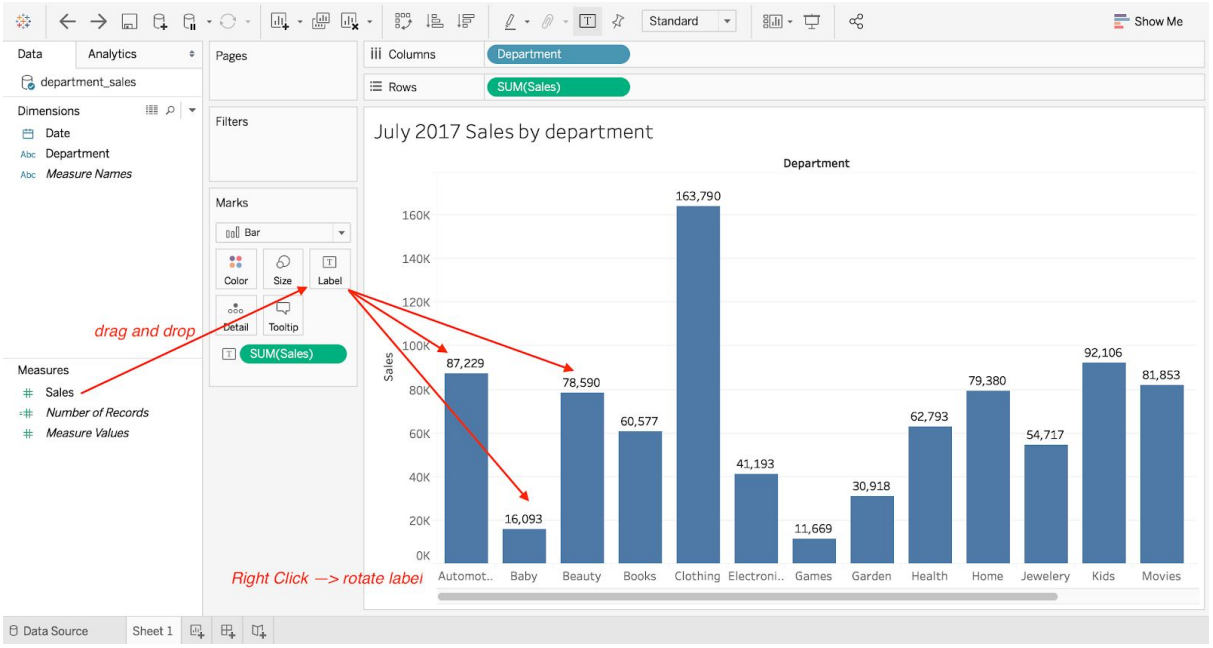


Then change the look of your visualisation by modifying elements such as labels and titles.



You can even colour your visualisation by the number of sales, and Tableau will automatically calculate the range of colour based on the data values.

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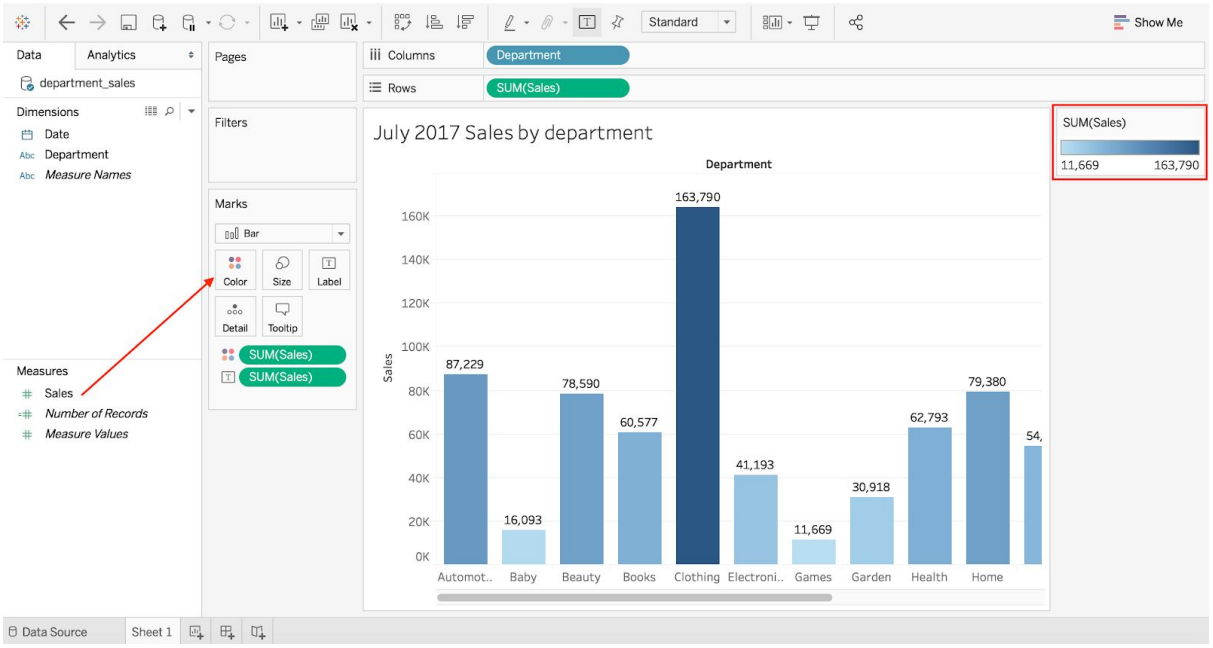
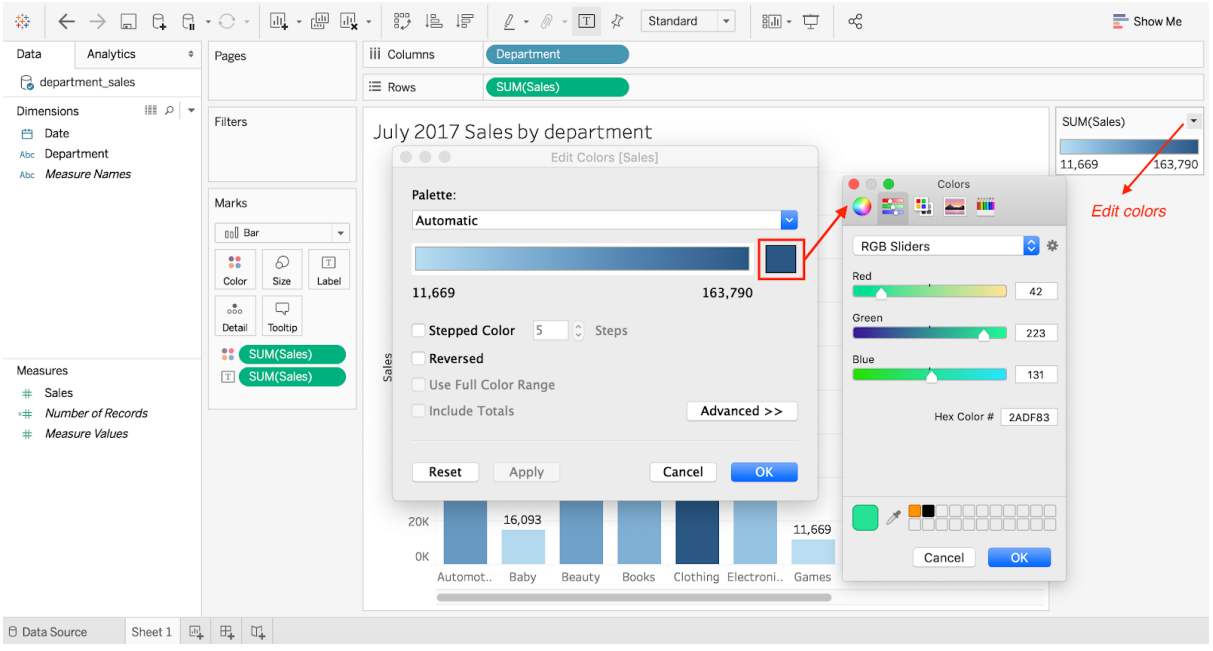


You can change this too - perhaps make the bars green to represent money.



Put a dollar sign on labels on top of the bars.

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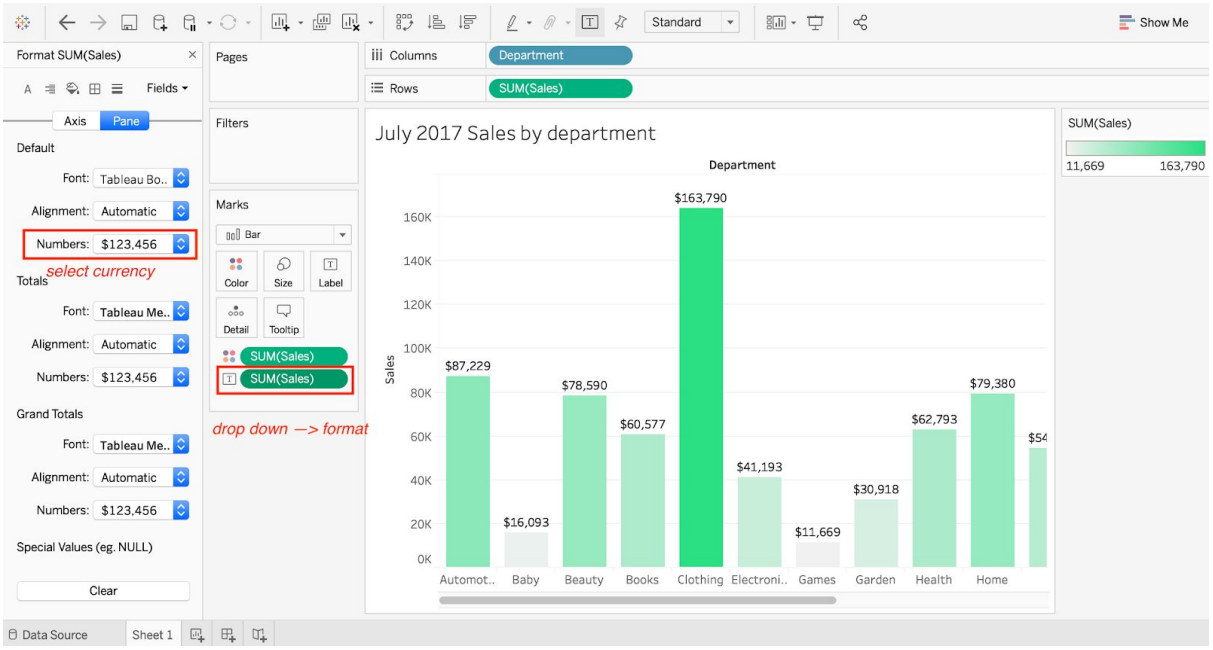
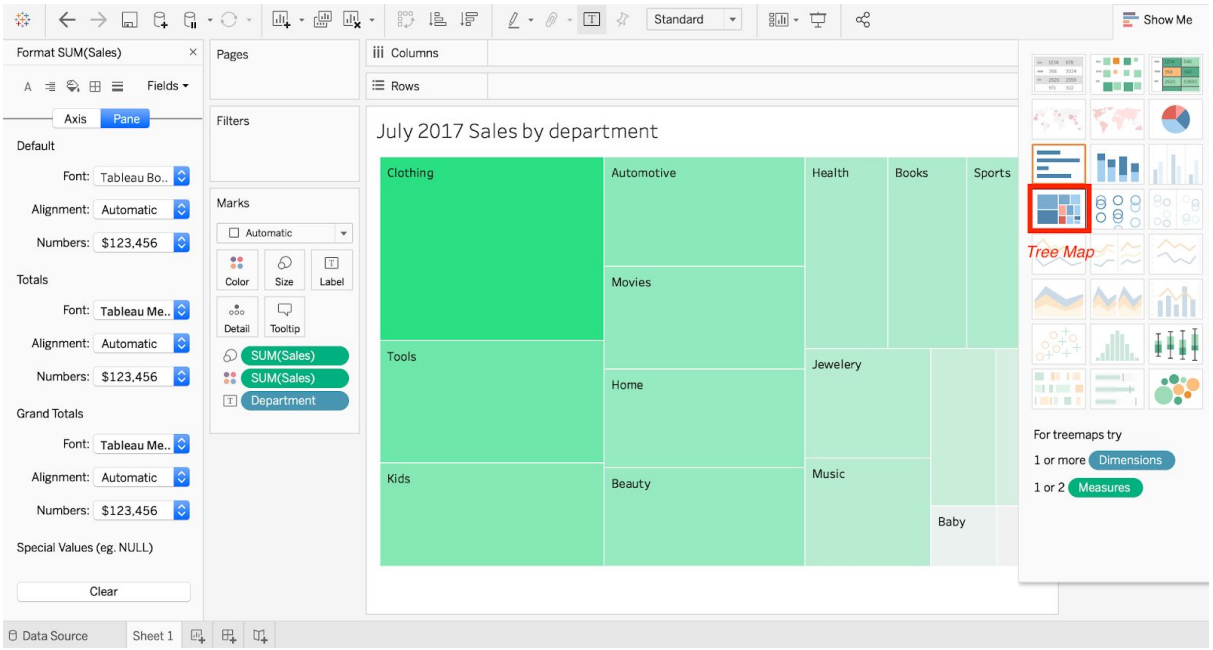


You can also choose different visualisations under “Show Me”. Below is an example of a tree map of the same data selected.

Tree Map



Keep in mind that the visualisations from which you can choose are based on the values you’ve dragged into columns and rows. For example, “Department” shown

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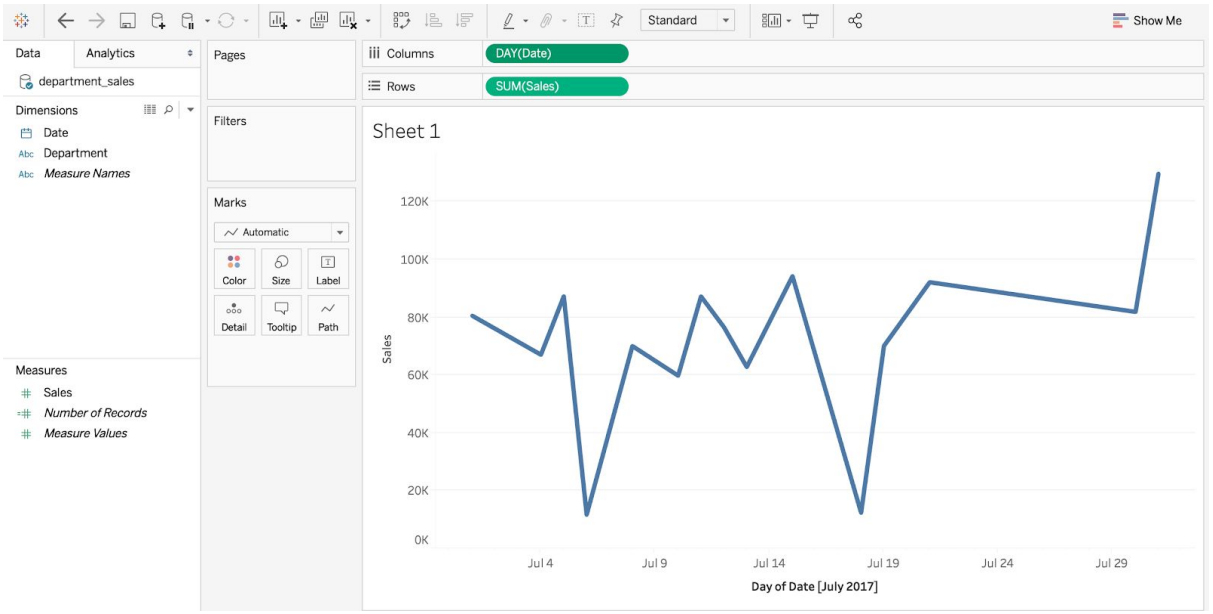
in *columns* and “Sales” displayed in *rows*. You cannot create a line graph, because a line graph visualizes a period of time and thus requires “time” value data.

Line Graph

If we drag “Date” into columns and “Sales” into rows, we can create a line graph.



A note from our coding mentor
Sabir

*Tableau’s official website also has its own training videos; these **videos** are very detailed and in-depth. They are updated when Tableau releases new versions. Feel free to check them out!*

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Compulsory Task 1

Follow these steps:

- Download Tableau
  - **https://www.tableau.com/products/desktop/download**
- Set up
  - Registration of account
  - Open Tableau and make sure it is working

Compulsory Task 2

Follow these steps:

- Choose and download a dataset from Tableau's resources:
  - **https://public.tableau.com/en-us/s/resources** (make sure that the "Sample Data" tab is selected instead of the "How-to Videos" tab).
- Create a dashboard, according to the dataset you have chosen. The dashboard should be neat, interesting and interactive.
- Create a video explaining your dashboard. If you are using a Mac, find instructions to create a screencast **here**. If you are working on windows, find instructions to create a screencast **here**.

For an example of what one of your peers has done for this task, please see **this video**.

Completed the task(s)?

Ask your mentor to review your work!

Review work

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