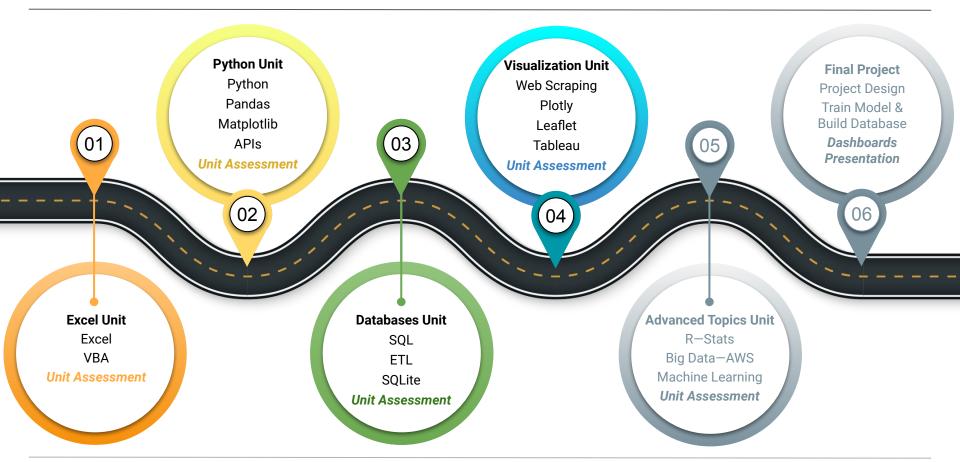


The Big Picture





Quick Tip for Success:

Falling behind? Find some extra time to work on past-due assignments or sign up for tutoring services.



This Week: Tableau

By the end of this week, you'll know how to:

Import data into Tableau

Create and style worksheets, dashboards, and stories in Tableau

Use Tableau worksheets to display data in a professional manner

Portray data accurately using Tableau dashboards



This Week's Challenge

Using the skills learned throughout the week, the students will create visualizations to show the differences in bike checkout times throughout the day.



Career Connection

How will you use this module's content in your career?

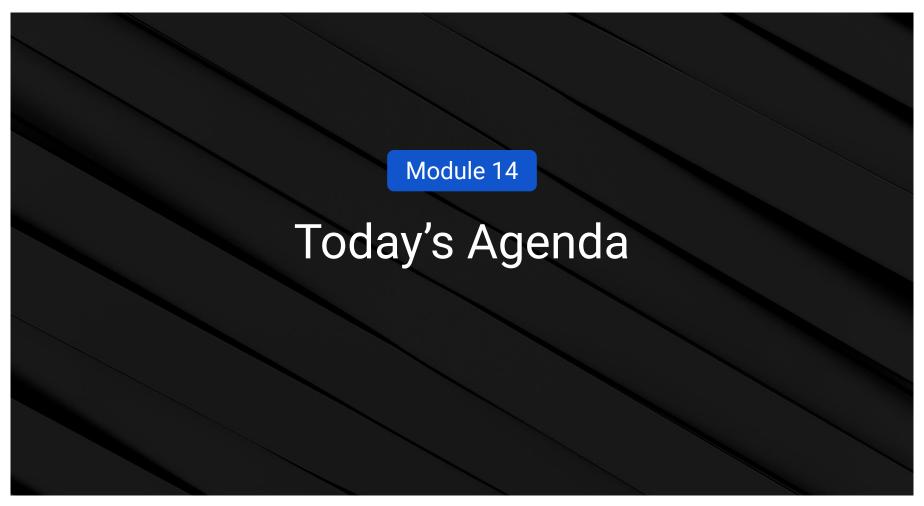
Module 14

How to Succeed This Week



Quick Tip for Success:

Tableau can be really intuitive. Get creative with the way you use it, and don't be afraid to experiment!



Today's Agenda

By completing today's activities, you'll learn the following skills:



Import data into Tableau



Create and customize basic visualizations



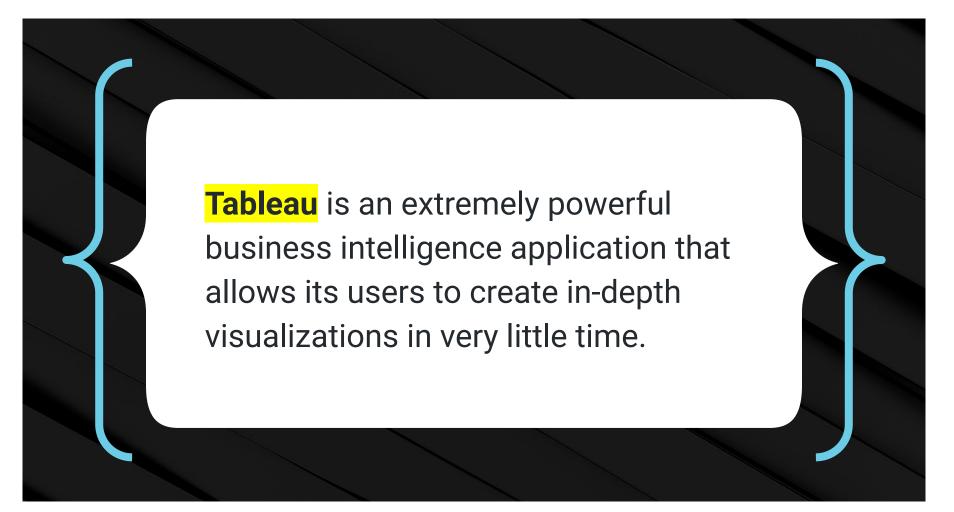
Create custom calculations



Make sure you've downloaded any relevant class files!

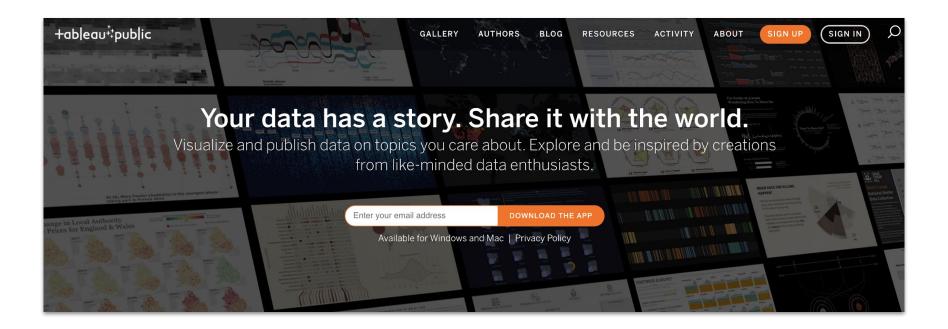






Tableau

Like Excel, Tableau focuses extensively on allowing users to manipulate tables of data and create visualizations without any additional programming.



Tableau

Tableau also utilizes a drag-and-drop-style interface so that users can easily create tables and charts, and perform analysis without much difficulty.

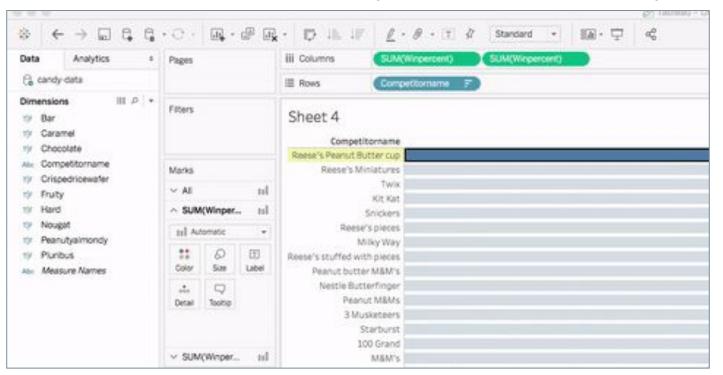


Tableau Public is a completely free version of the Tableau software that includes the majority of features included within Tableau Desktop.

Tableau Public Examples

One Tableau feature is the ability to share projects and visualizations with your community.



A History of Notable Black Achievements

In celebration of #BlackHistoryMonth, explore Eve Thomas's visualization on notable Black achievements throughout history, specifically those who were first to break through the color barrier across different sectors.

Featured On: February 4, 2021

Tableau Public Examples

Not only can visualizations be shared on the Tableau site, they can also be embedded on webpages.



Tableau Public Examples

Notice how varied and interesting many of these projects are.

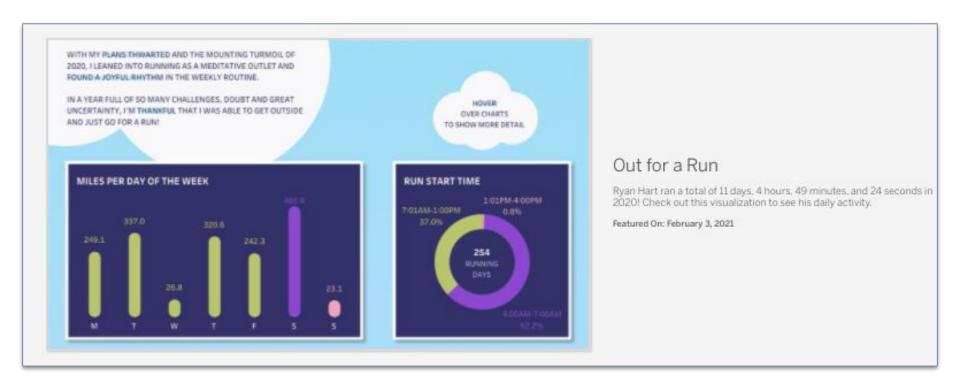


Tableau Public vs. Desktop

The main difference between the two versions:

Public

Allows you to work with multiple file types, such as .xlsx, .csv, .txt, PDFs, JSON, and others.

Desktop

Allows you to work with the same files as Tableau Public, but you can also connect to a multitude of servers, like MySQL, Oracle, Amazon Redshift, Google Sheets, and more.

All assignments in this unit can be completed with the free version of

+ableau[‡]public



Loading and Exploring Data









Activity: No-Show Tableau Visualization

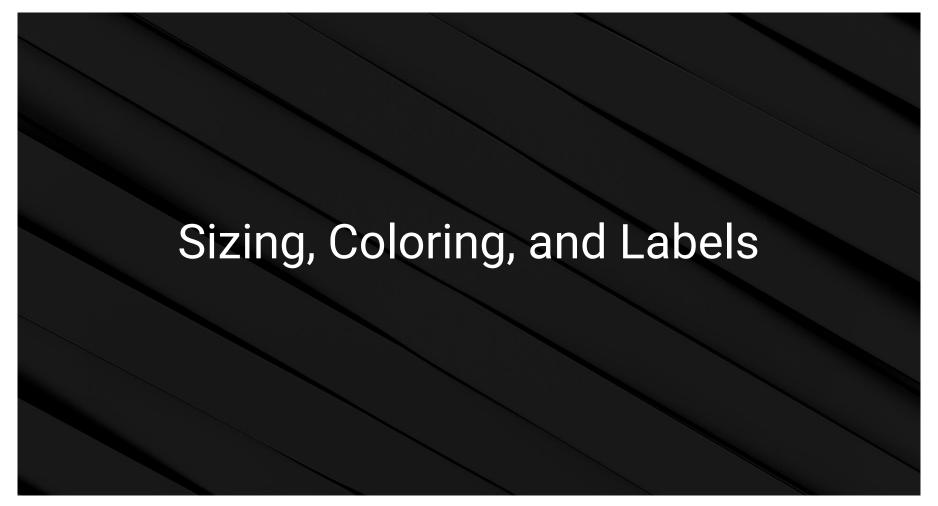
In this activity, you will spend some time creating a series of visualizations about what kinds of people are more/less likely to show up to doctor appointments.



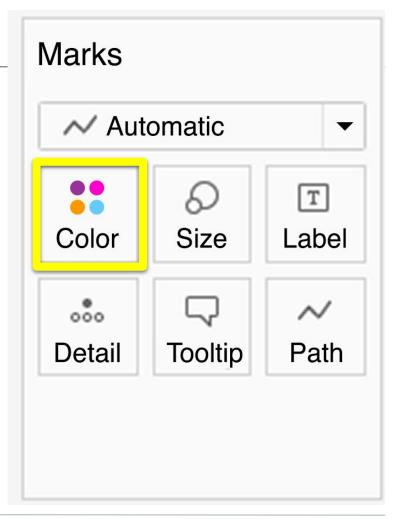


Let's Review

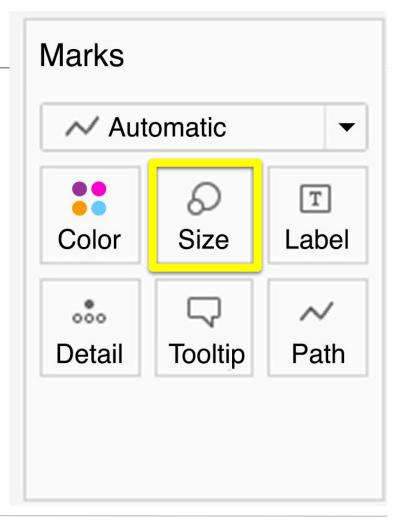




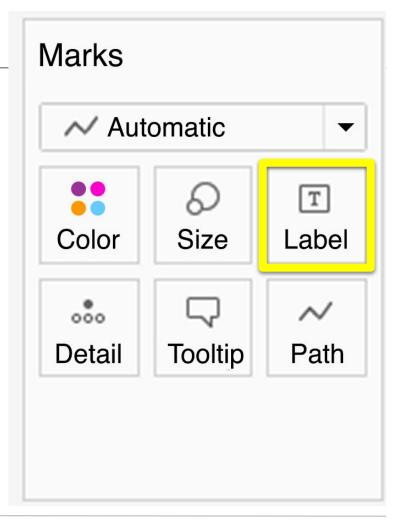
The **Color** modifies the colors of a chart so that elements are colored according to the values passed.



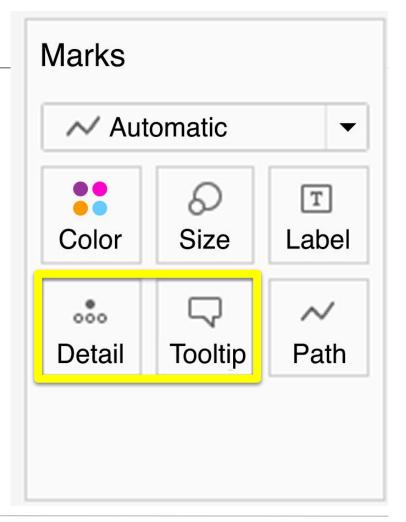
The **Size** modifies the sizing of elements to that they are bigger or smaller depending on the values passed.



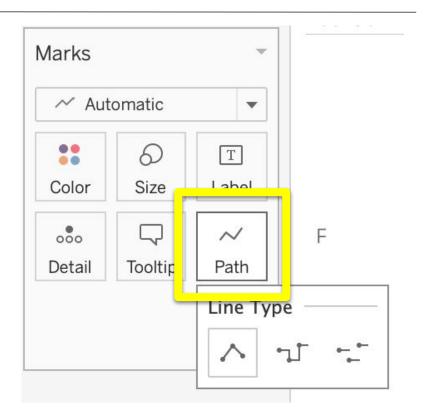
The **Label** places text next to points on a chart that correspond with the values passed.



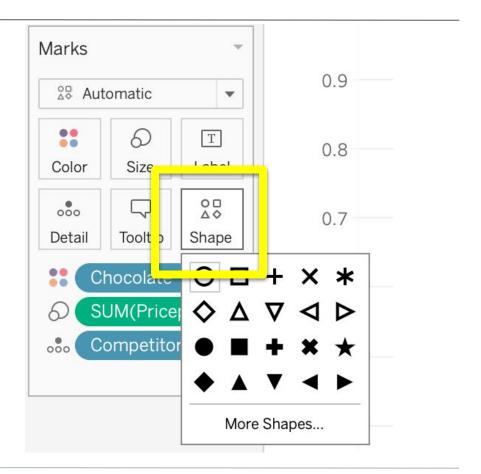
The **Detail** and **Tooltip** act like labels but only appear when the cursor hovers over the associated point/element on a chart.



The **Path** changes the type of line mark, linear, step, or jump of an element/point depending on the values passed. Changing the value of the dropdown will change whether path or shape is displayed.



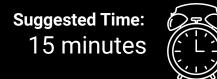
The **Shape** changes the shape of the figure based on the values passed. Changing the value of the dropdown will change whether path or shape is displayed.





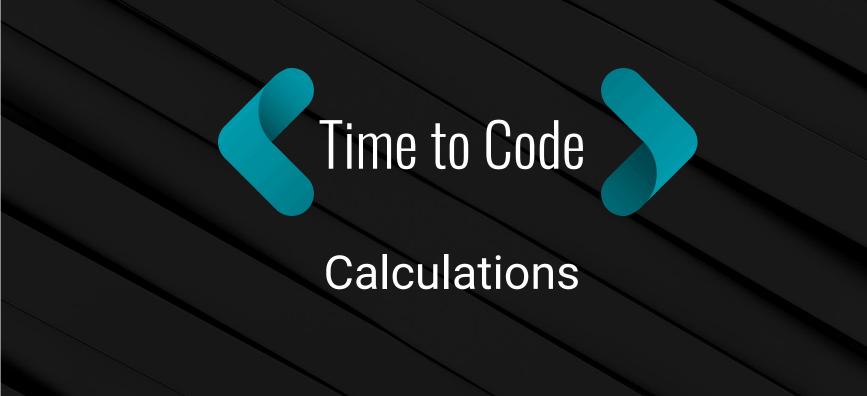
Activity: The Ultimate Candy

In this activity, you will create charts that compare candies. The charts themselves are quite basic but will be made more complex using marks.





Let's Review



Suggested Time:

20 minutes

