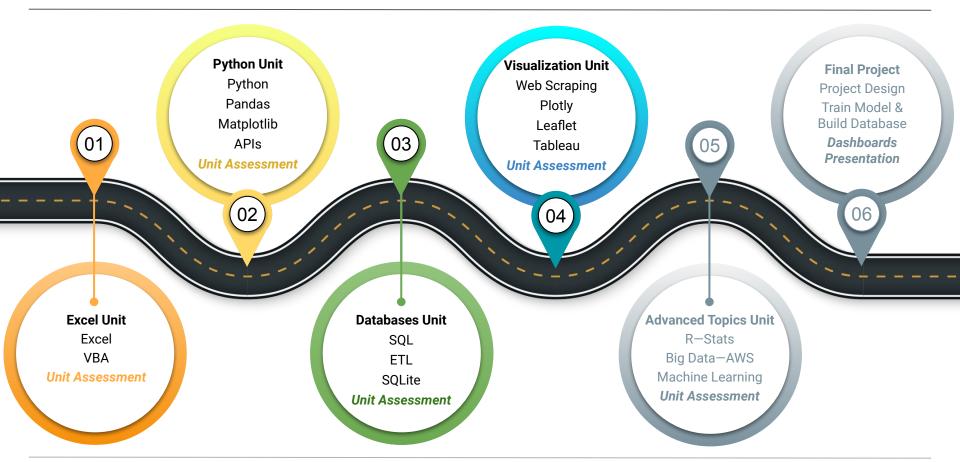


Creating Tableau Charts, Dashboards, and Stories

Data Boot Camp Lesson 14.2



The Big Picture



This Week: Tableau

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

01 > 1

Import data into Tableau

02

Create and style worksheets, dashboards, and stories in Tableau

03

Use Tableau worksheets to display data in a professional manner

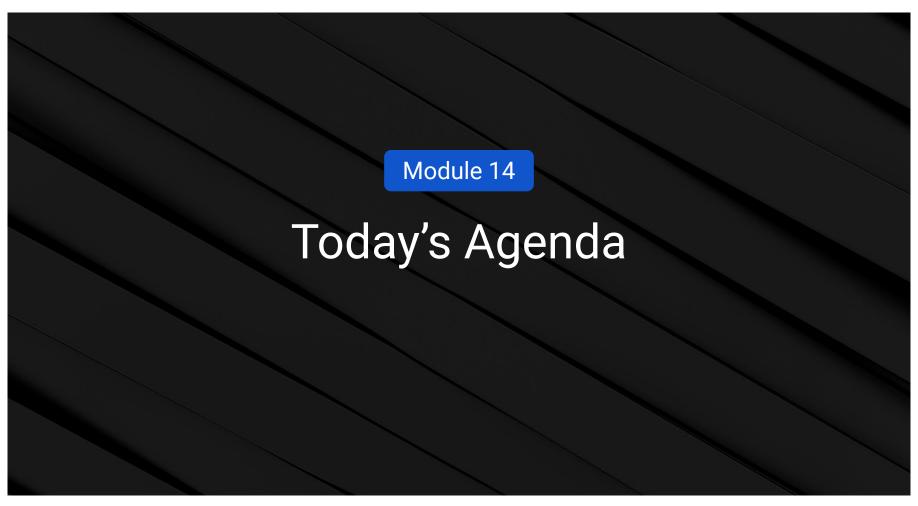
04

Portray data accurately using Tableau dashboards and stories



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.



Today's Agenda

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



Creating area and bubble charts



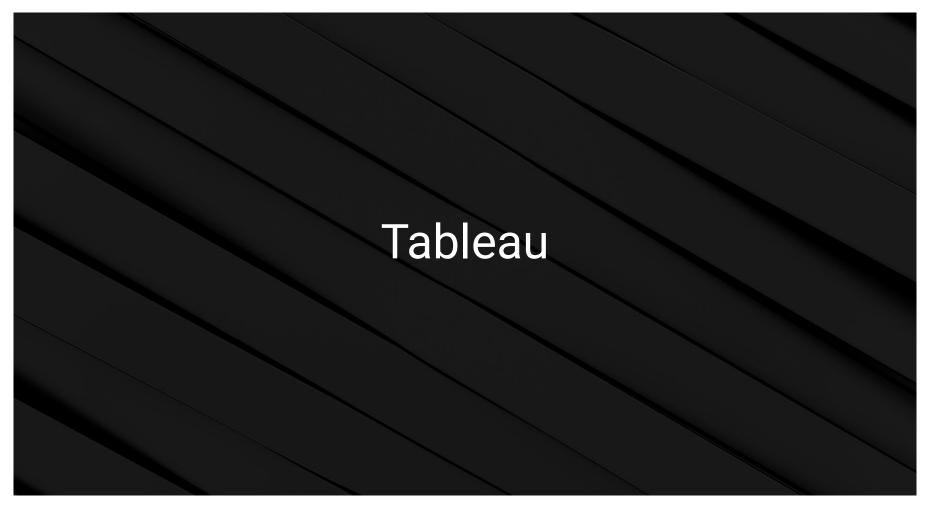
Creating Tableau dashboards



Creating Tableau stories



Make sure you've downloaded any relevant class files!





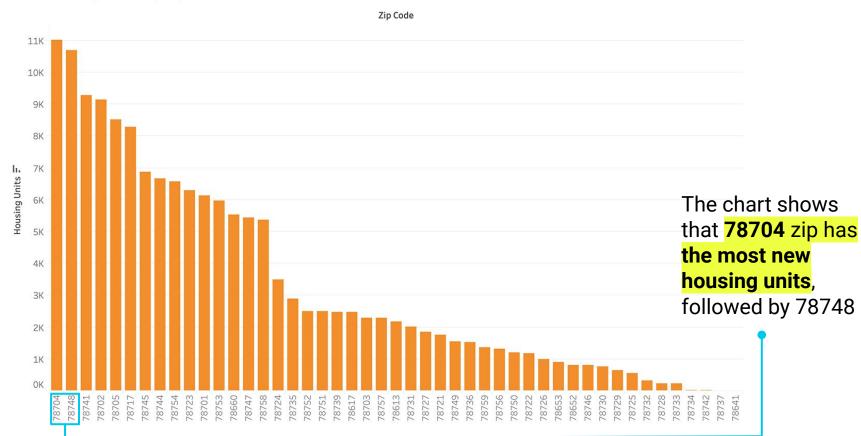


Suggested Time:

20 minutes



Total Housing Units by Zip



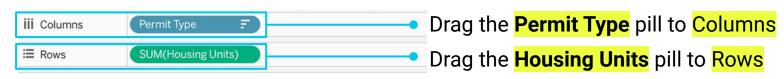
Visualizing Data on a Geospatial Map

We can also visualize this data on a geospatial map.

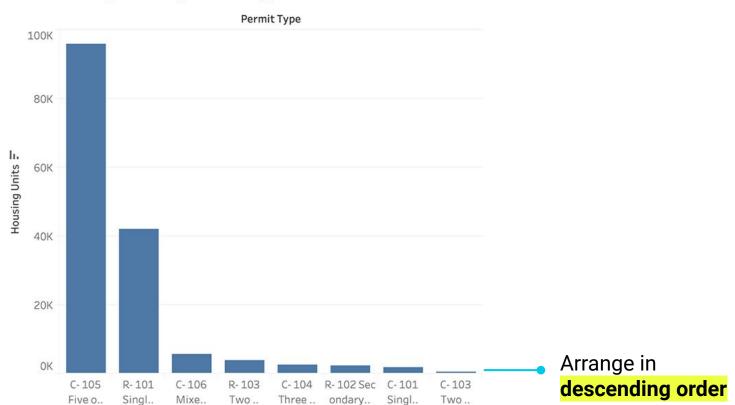
When you have data that has a geographic role, such as zip codes, Tableau automatically adds two fields to the "Measures" area of the "Data" pane:

 Latitude (generated)
 Longitude (generated)

- To create a map, double-click on the Latitude (generated) pill and Tableau will automatically place the latitudes into Rows, since latitudes run horizontally.
- When you double-click on the Longitude (generated), Tableau will automatically place longitudes into Columns, since longitudes run vertically.

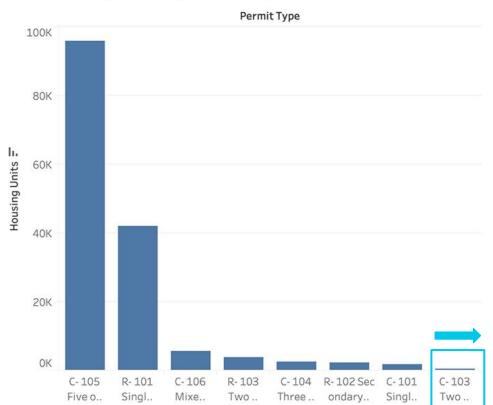


Total Housing Units by Permit Type





Total Housing Units by Permit Type



We can make the x-axis labels completely visible by clicking on the right end of the x-axis and dragging to the right.

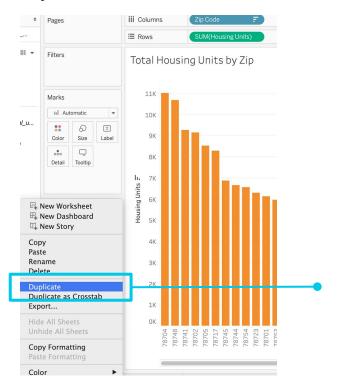


Total Housing Units by Permit Type

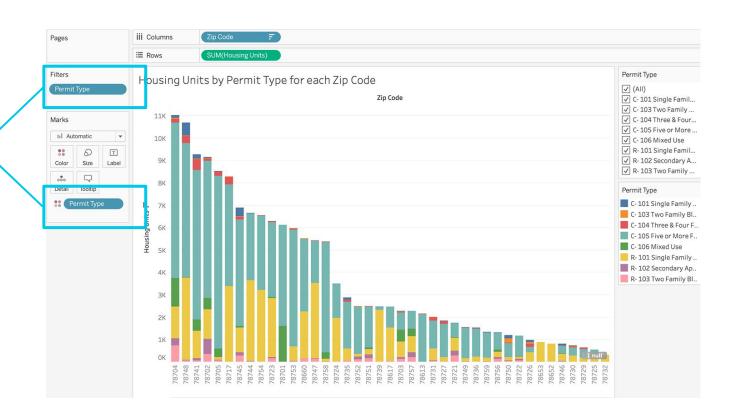


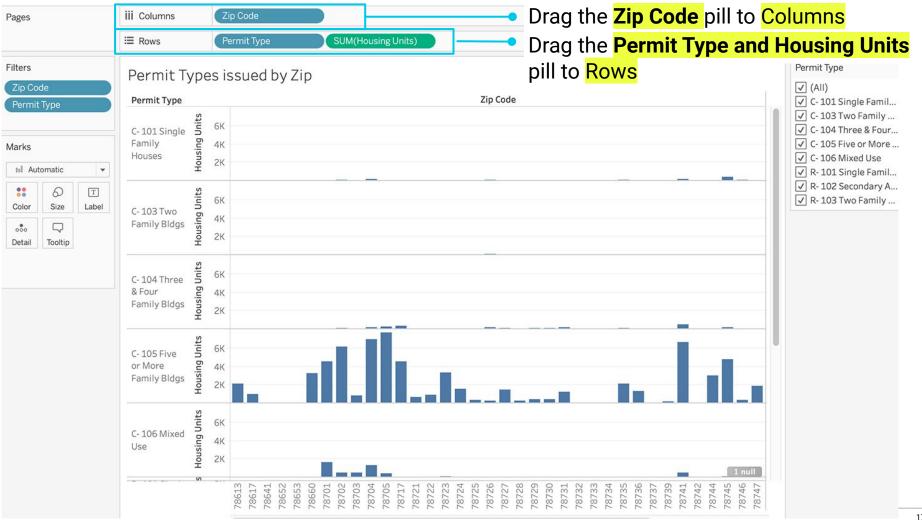
Or, right-click on the x-axis and select "Rotate Label."

We can visualize the number of housing units by permit type for each zip code in two different ways.

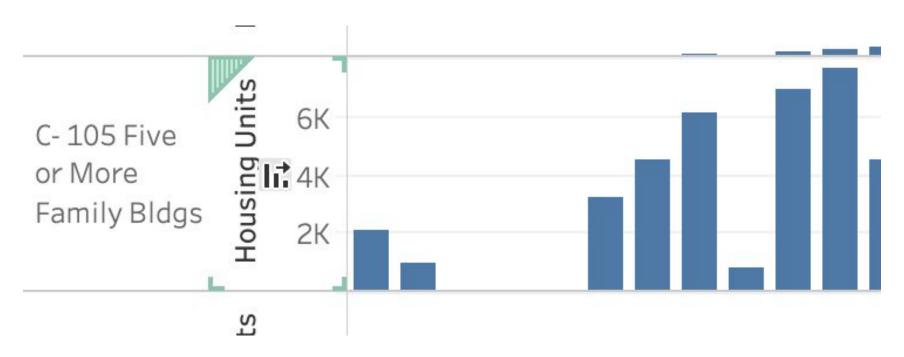


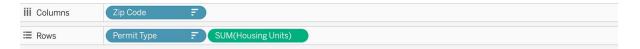
First, we can make a duplicate of the first visualization, the total housing units for each zip code, by right-clicking on the chart title. Drag the Permit
Type pill to
"Color" and to
"Filters"



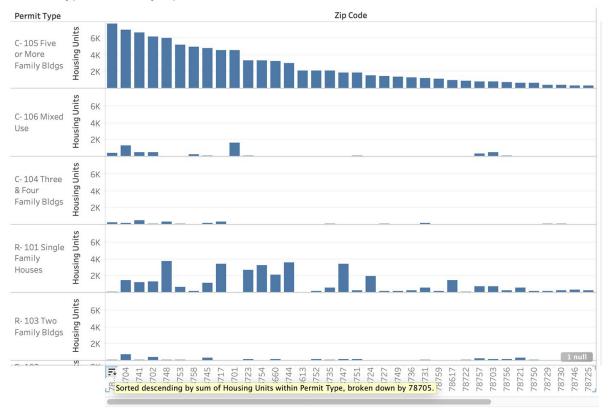


Next, sort in **descending order** on "sum of housing units within Zip Code broken down by C-105 Five or More Family Bldgs



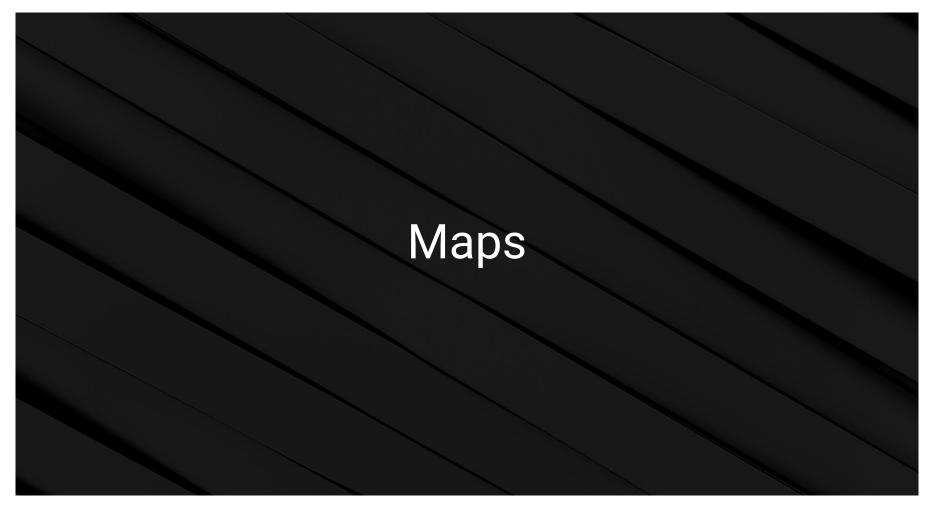


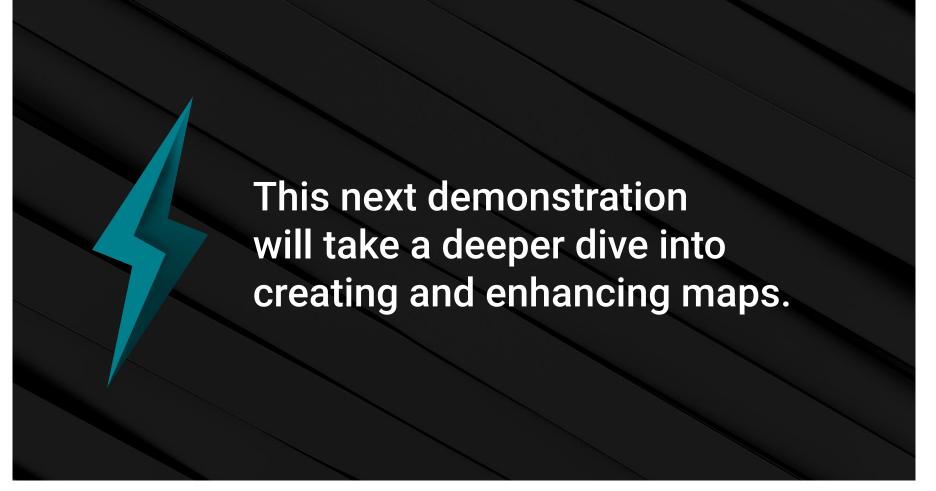
Permit Types issued by Zip

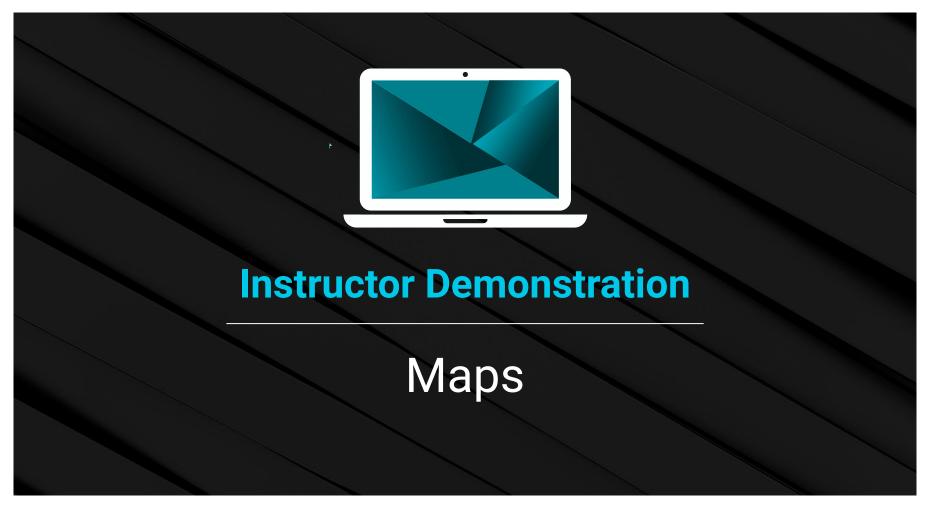


- Finally, sort in descending order on "sum of housing units within Permit Type broken down by 78705
- Using the filtering options on the right, we can show the breakdown by zip code based on the type of permit.











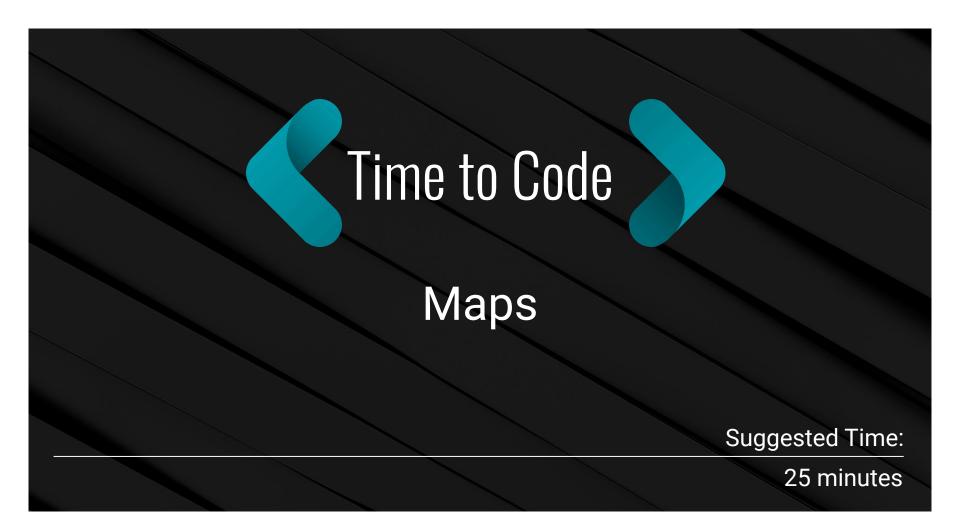
Where have we used this before?



How does this activity equip us for the Challenge?



What can we do if we don't completely understand this?











Airline Safety Dashboard

Suggested Time:

20 Minutes





Creating Stories and Presentations

Suggested Time:

20 Minutes



