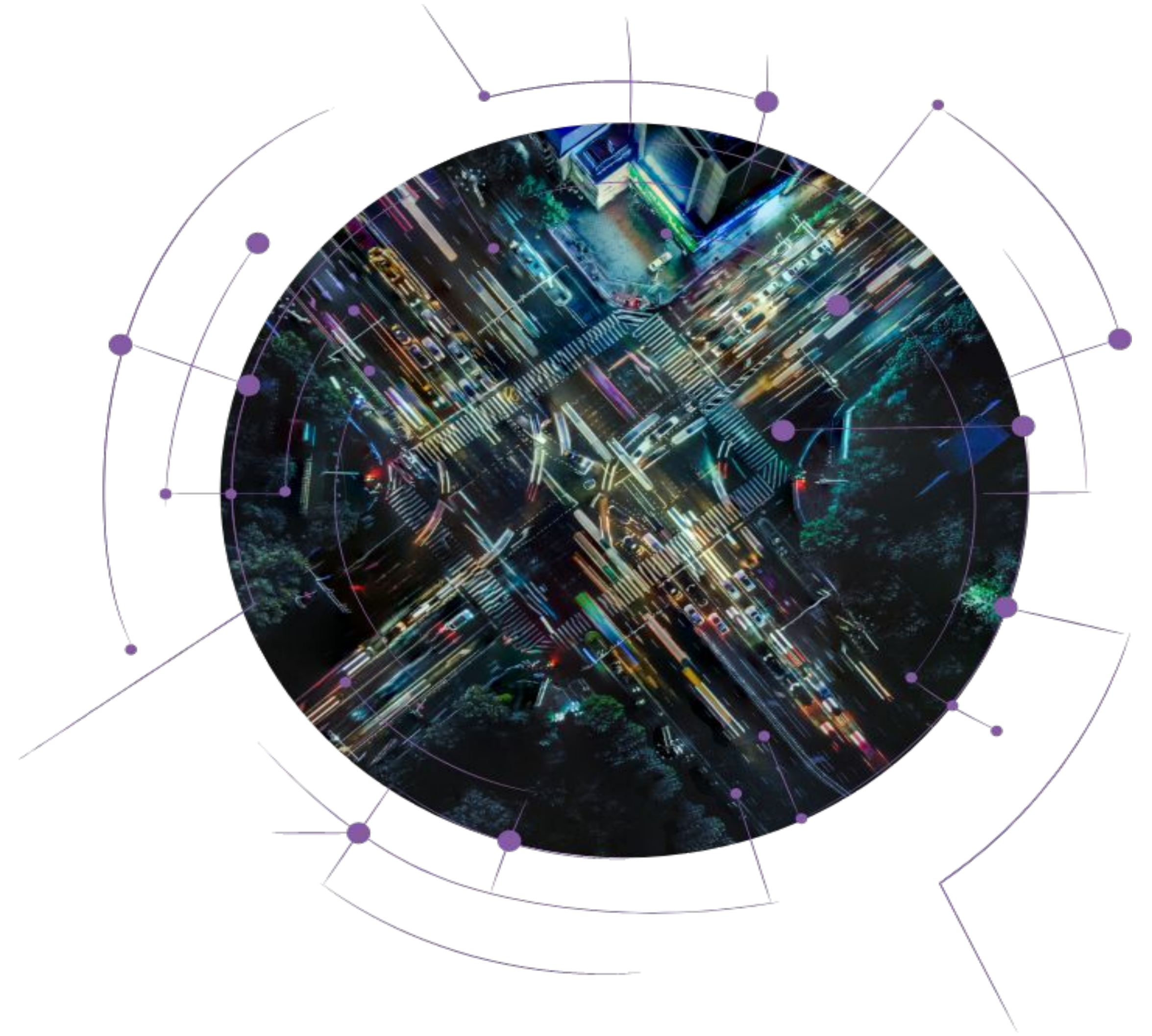


# DATA SOCIETY:

## Introduction to Tableau

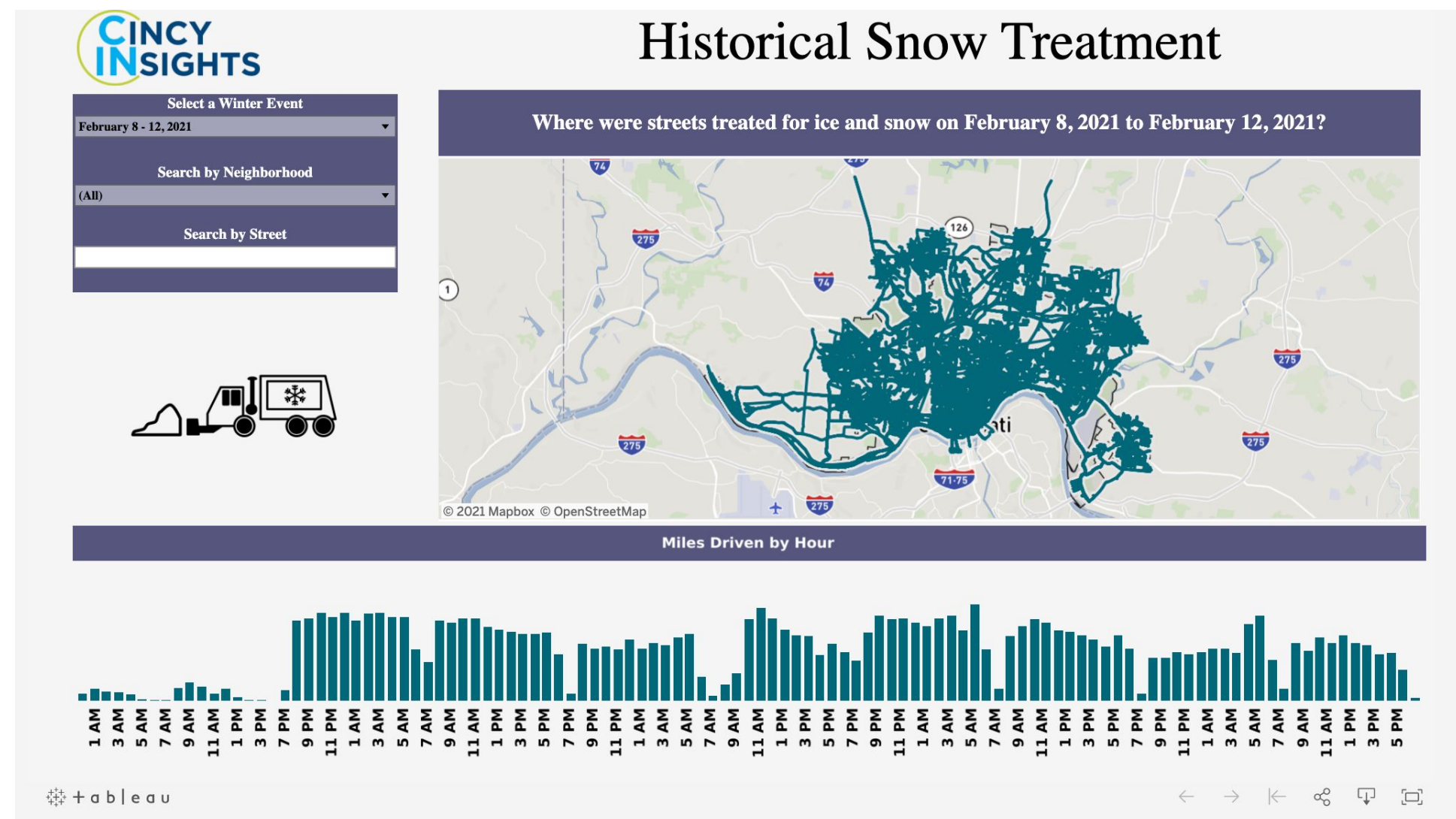
Part 12





# Warm-up: Cincinnati snow tracker

- The city of Cincinnati built a **snow plow tracker map** to allow the public to see what parts of the city have been plowed out in a given weather event.
- Spend a few minutes exploring and evaluating the tool, then be prepared to comment on **what you like** and **what could be improved** in the design.



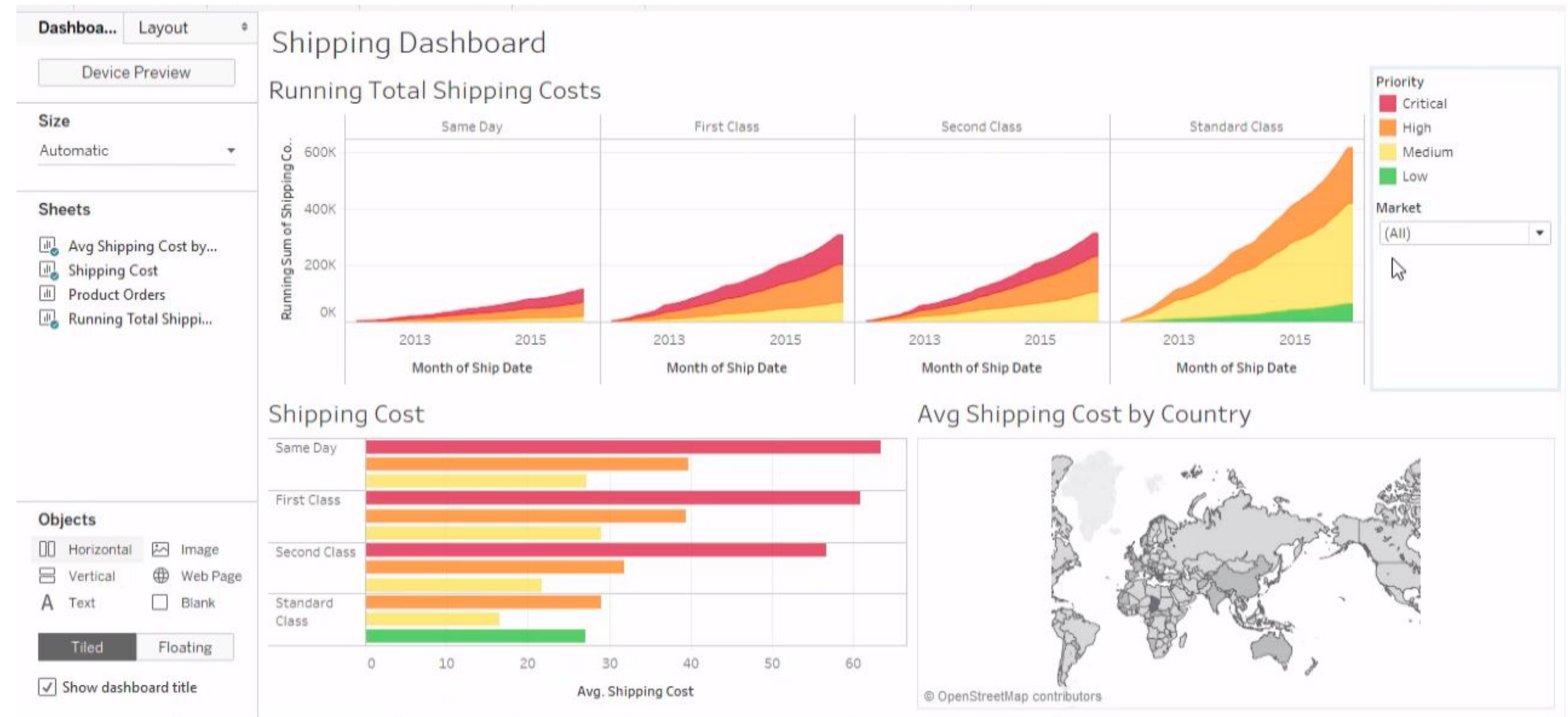
[Cincinnati Snow Tracker \(link\)](#)

# Module completion checklist

Objective	Complete
Introduce the concept of geospatial visualization	✓
Implement geospatial visualization for given dataset	✓
Identify and correct errors to facilitate proper joining with geospatial data	✓
Introduce the concept of Dashboards	
Combine previously created visualizations into Dashboard	

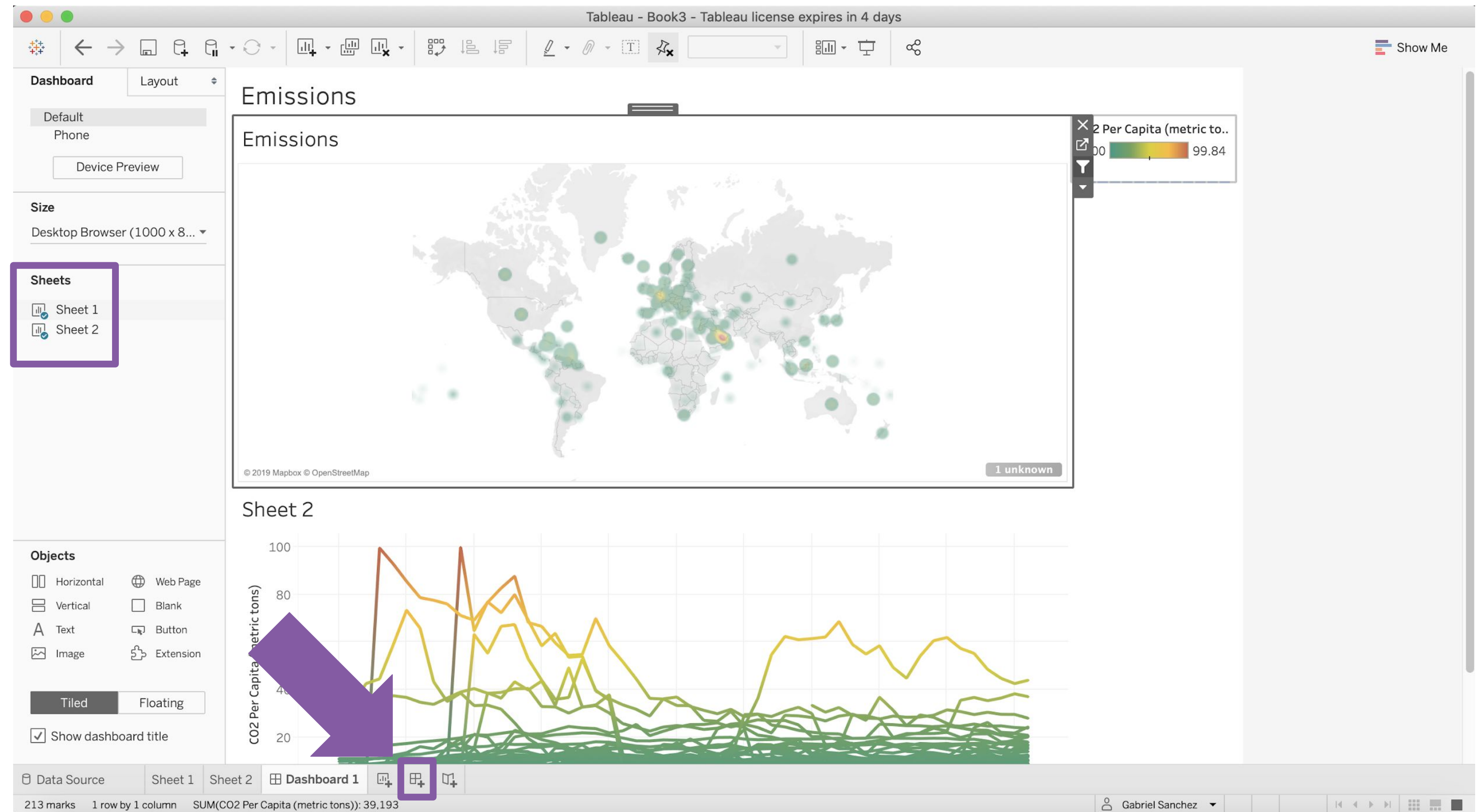
# Dashboards and stories

- A **dashboard** is a panel with a group of objects with a common theme.
- A **story** is a linear plot of related dashboards.
- Interactive and multi-part.
- Size and shape can be customized.





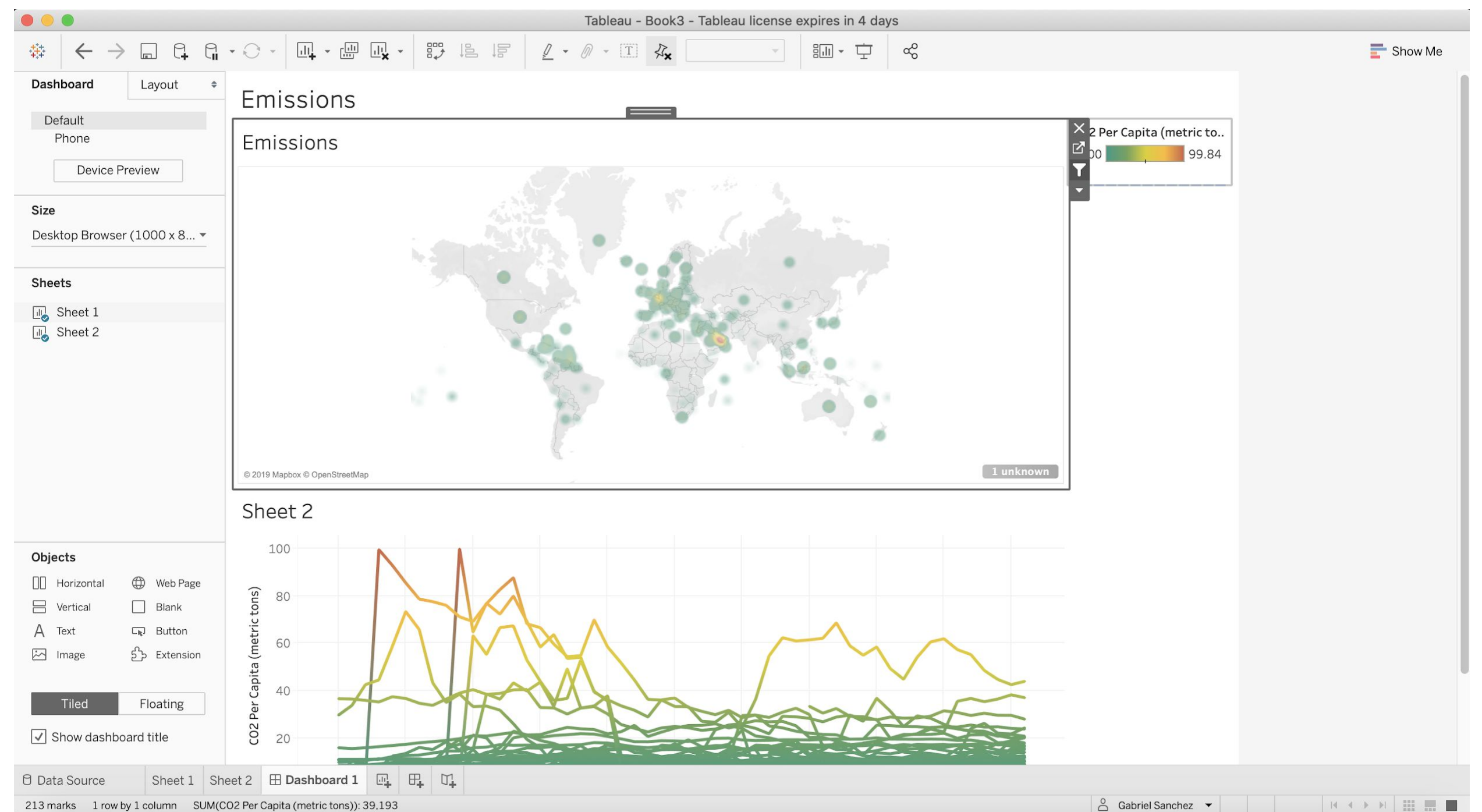
# Creating a new dashboard



New Dashboard Button

# Best practices for dashboards

- Know your purpose and audience.
- Leverage the most-viewed spot.
- Be mindful of your final display size.
- Limit the number of views.
- Be security-savvy.
- Add interactivity to encourage exploration.
- Show filters.
- Enable highlighting.



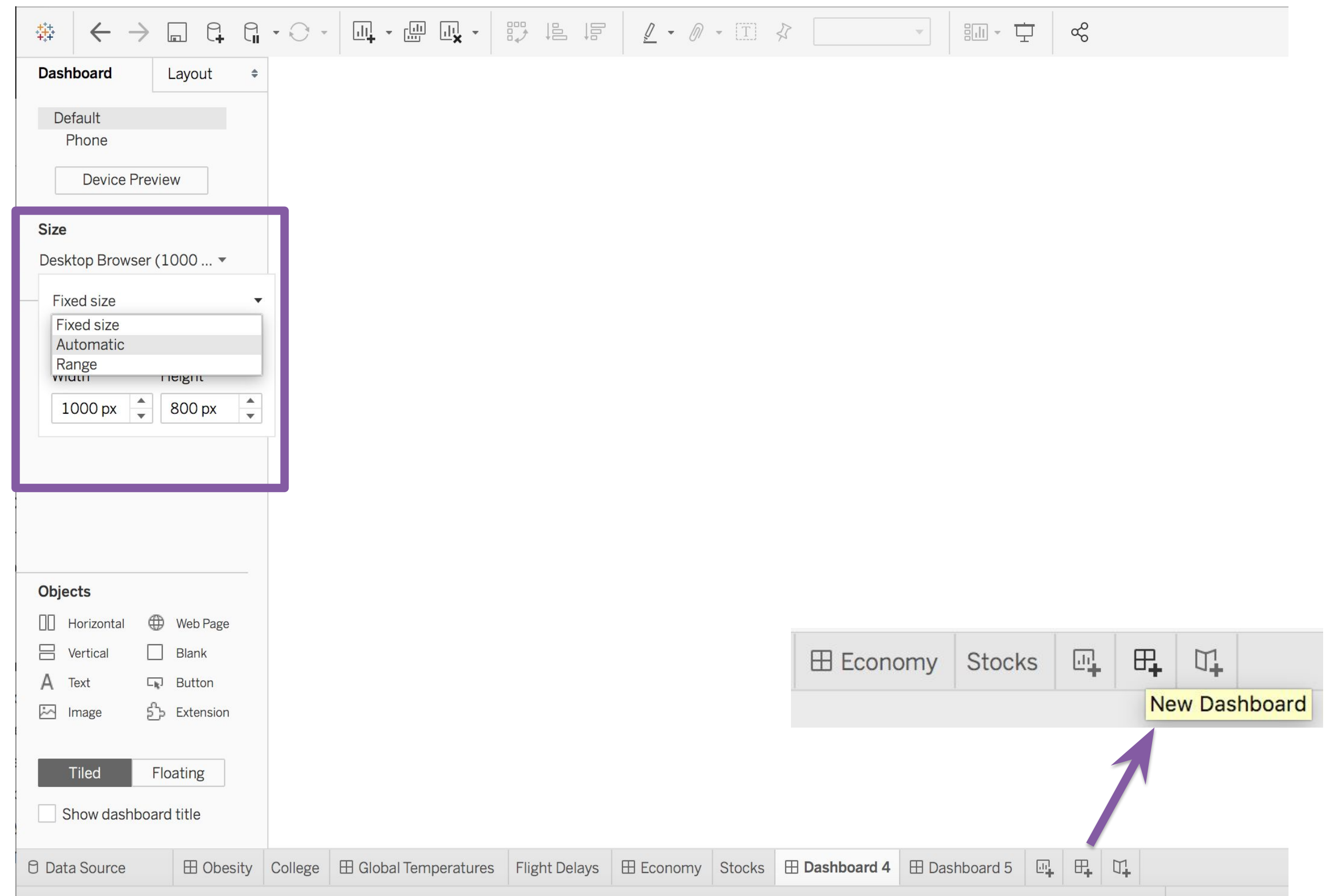
# Module completion checklist

Objective	Complete
Introduce the concept of geospatial visualization	✓
Implement geospatial visualization for given dataset	✓
Identify and correct errors to facilitate proper joining with geospatial data	✓
Introduce the concept of Dashboards	✓
Combine previously created visualizations into Dashboard	



# Dashboard implementation

- Add a dashboard by clicking on the tab at the bottom.
- Consider the **size** of the final dashboard.
  - Fixed
  - Automatic
  - Range (manual)
- Consider the **purpose** of the dashboard.
  - Is this for a mobile device?
  - Will it be used on a large monitor?



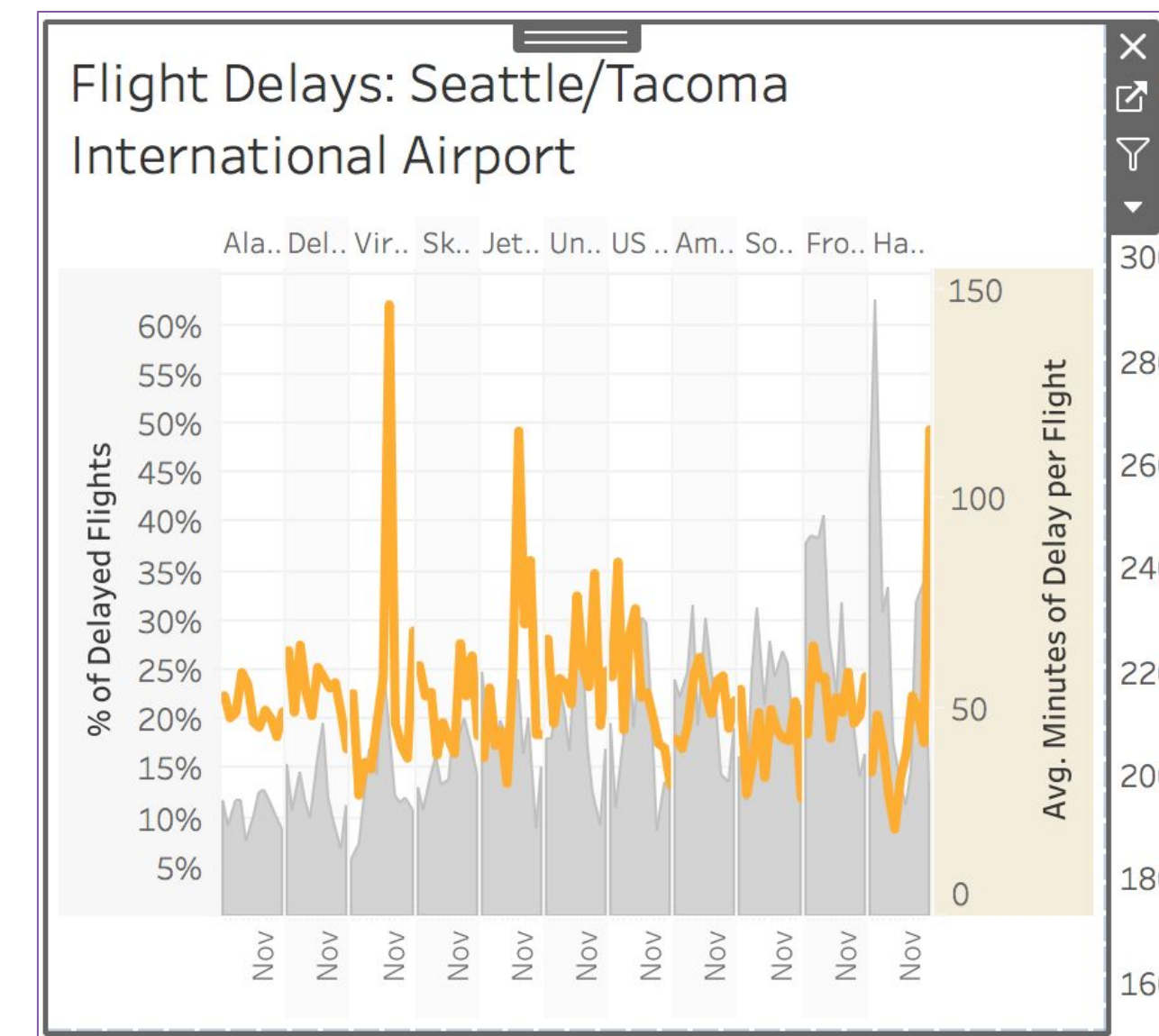
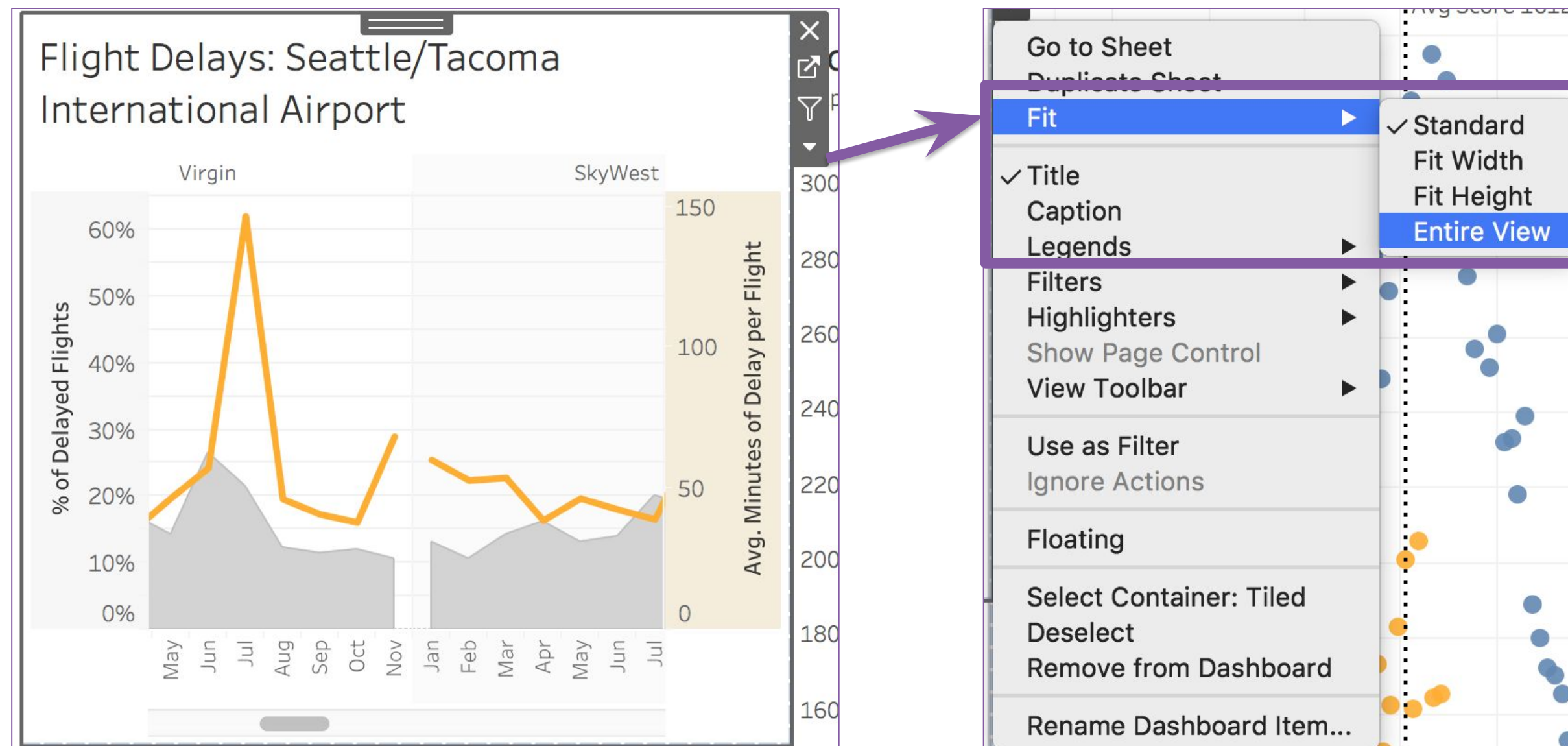


# Building your first dashboard

- Use the plots you have been making and saving with the world dataset to **create a dashboard**.
- Feel free to focus on just a subset of variables and choose the visualizations that you think are most interesting.
- Use the best practices for Dashboards to guide you in your choice.

# Sheet dropdown menu options

- Fit options
  - Fix issues with out-of-frame sheets
- Filter options
- Title options

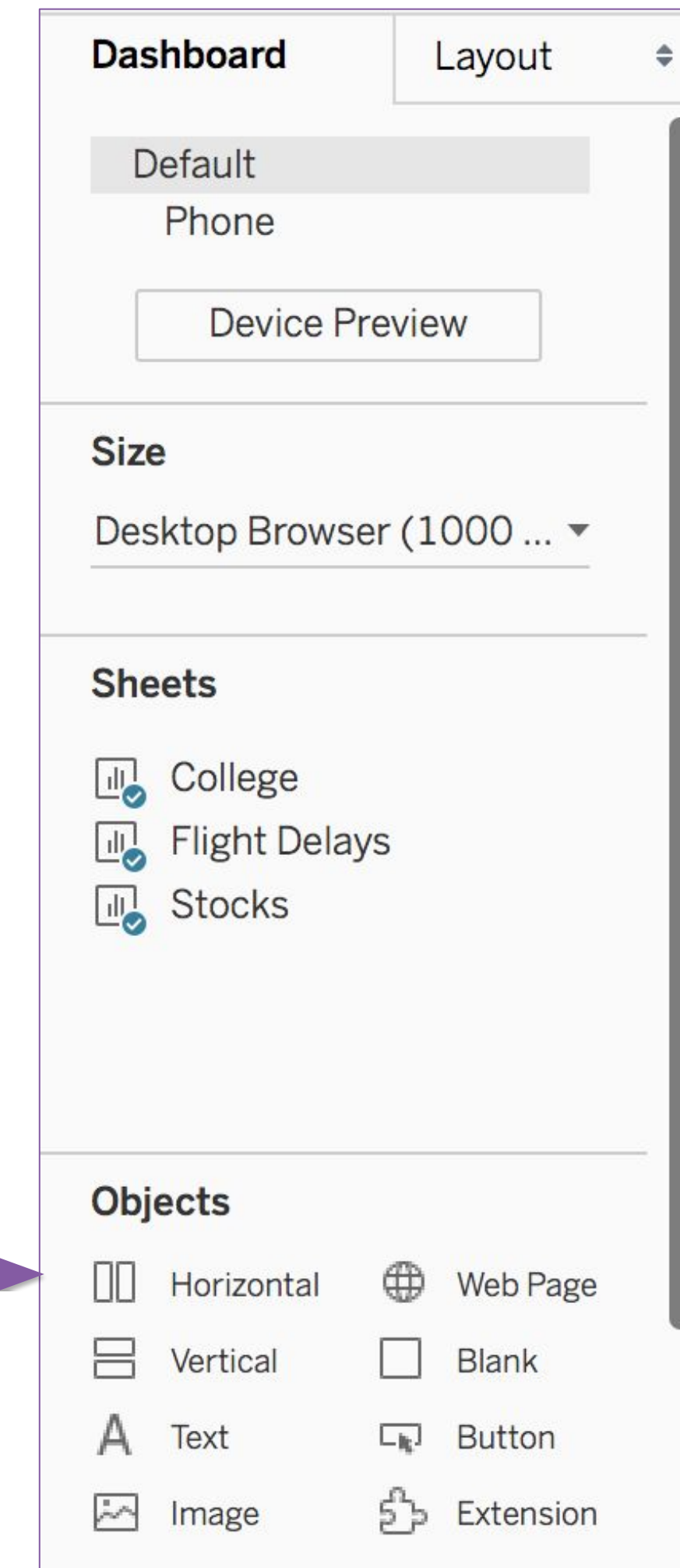




# Objects and containers

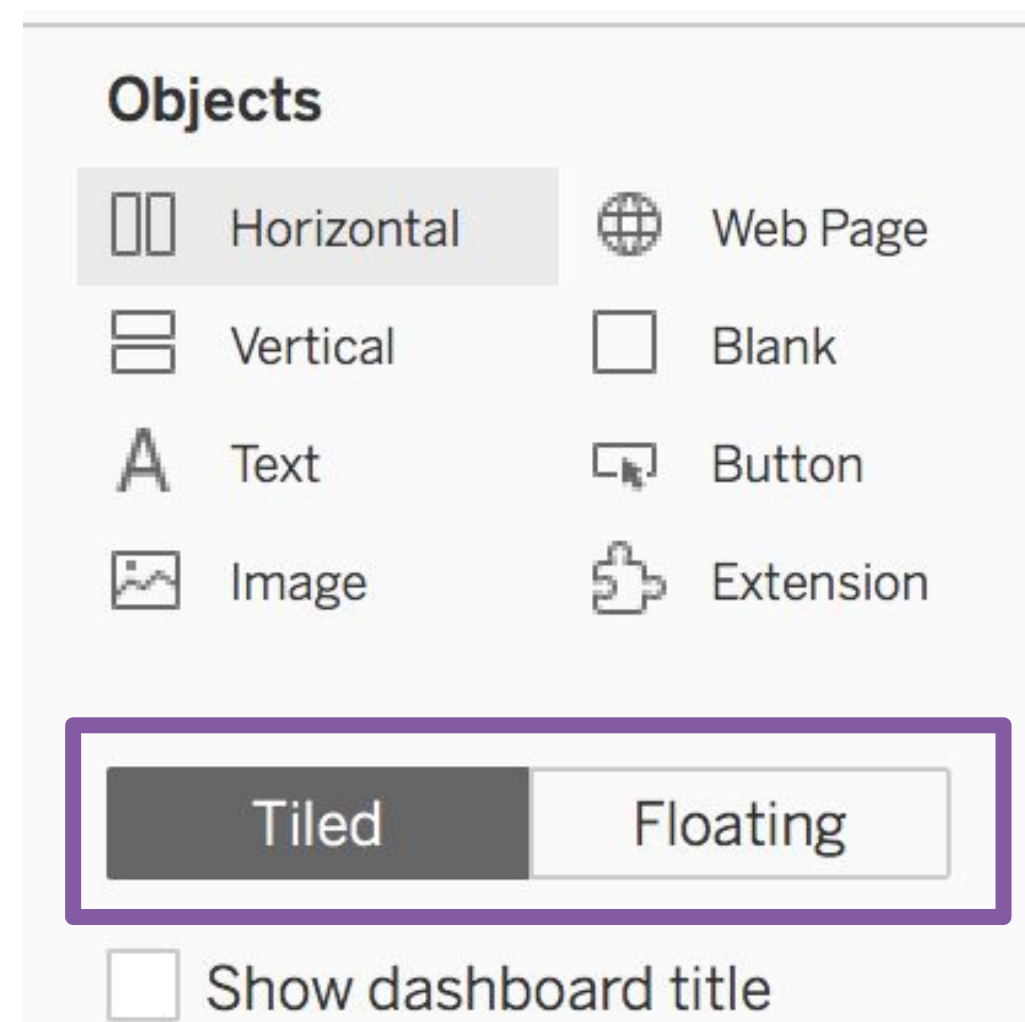
- The Dashboard menu can add objects and containers.
- Containers hold items and scale them together.
- You can also add other kinds of objects:
  - Web pages.
  - Blank spacers.
  - Images.
  - Text.
  - Extensions.
  - Buttons.

Horizontal or  
vertical  
container

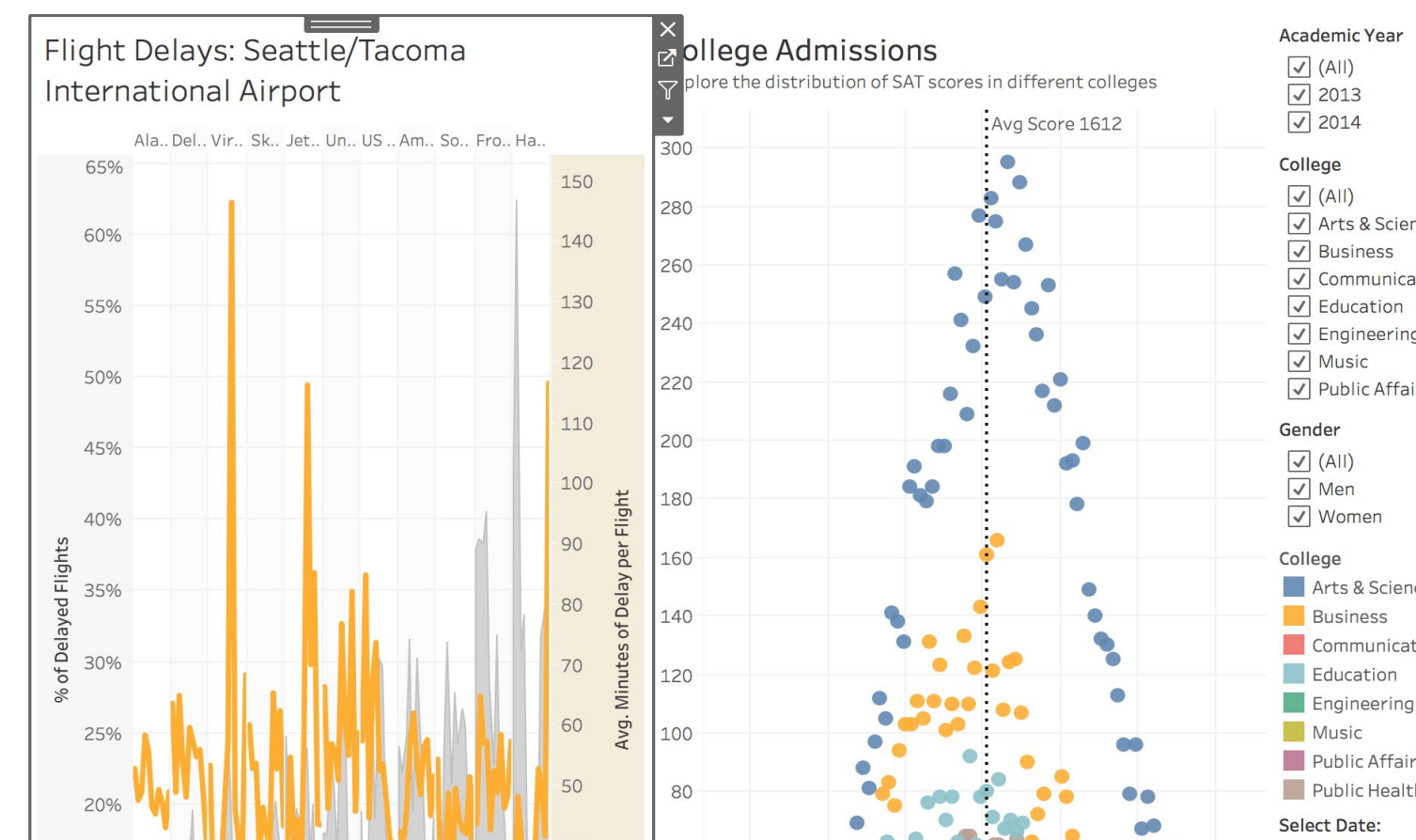


# Tiled vs. floating elements

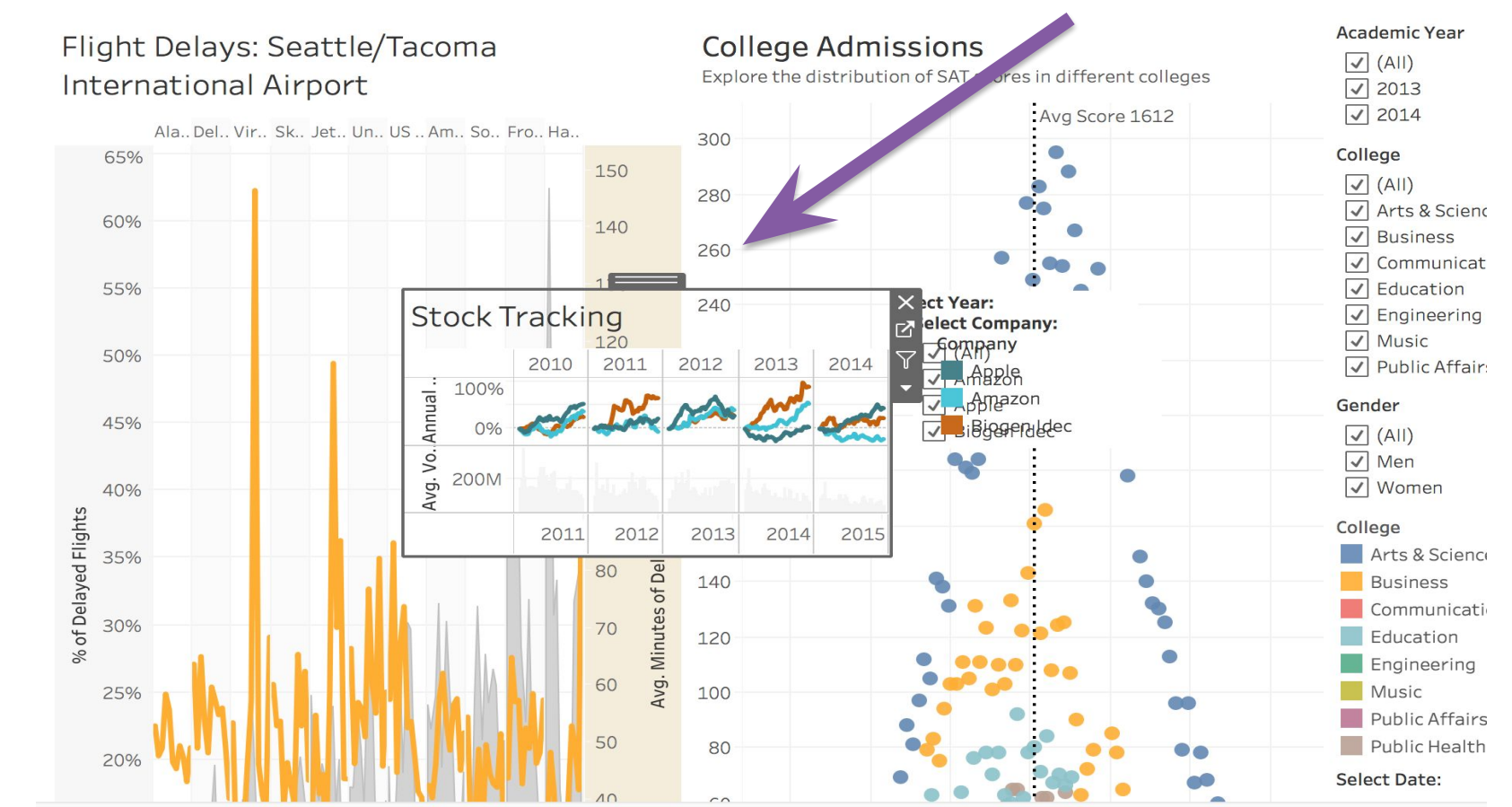
- Each object or layout container can be either **tiled** or **floating**.
- Different effects on shape and sizing.



- **Tiled**
  - Arranged in a single layer grid.
  - Adjust in size based on the total dashboard size and other objects.



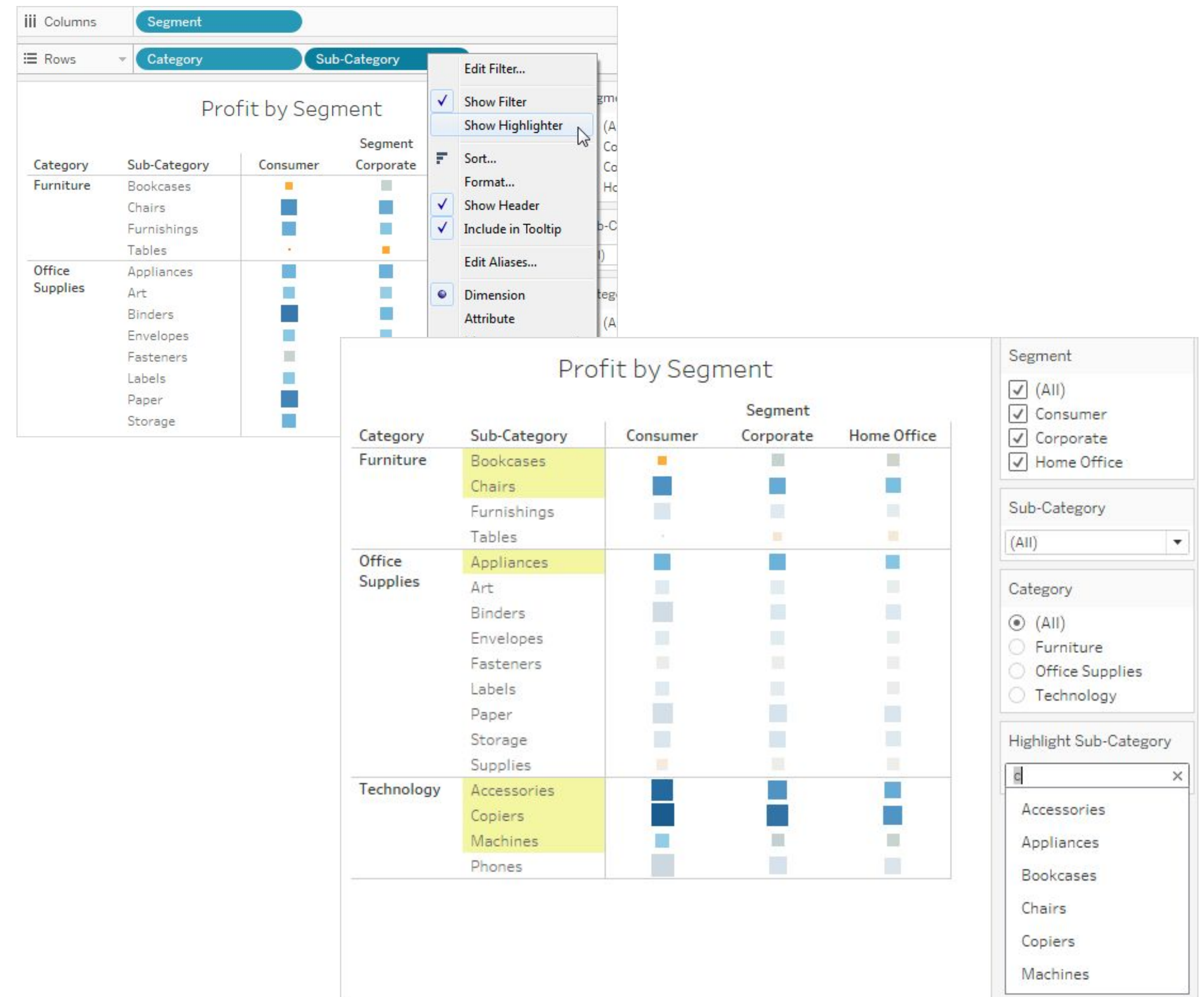
- **Floating**
  - Layered on top of other objects.
  - Can have a fixed size and position.





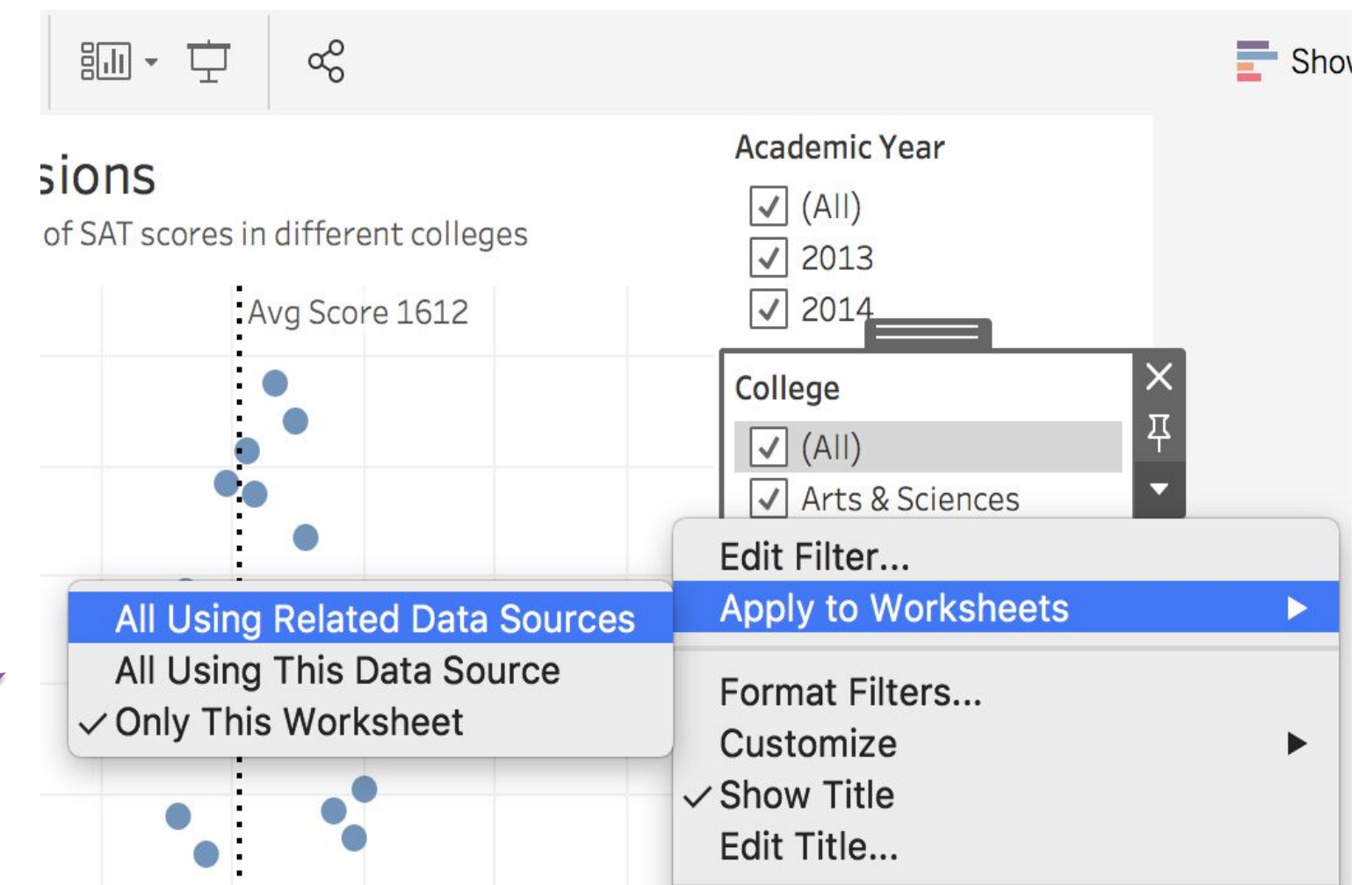
# Highlighting

- You can use the **Highlight** button on the toolbar to set up highlighting between views.
- When highlighting is turned on, a filtered selection in one view will highlight related data in the other views.
- You can turn on highlighting for all fields or select specific fields.



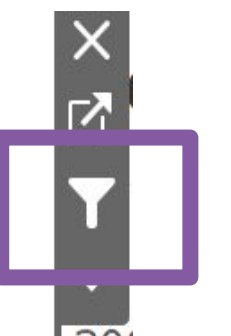
# Couple filtering

- If your dashboard panels share data you might want to enable **couple filtering** to apply a filter across the whole dashboard.
- Couple filtering can be enabled using two options:
  - Option 1: Filter panels, as on the right.
  - Option 2: Clicking the **Filter** on a given sheet, which will use it to filter other sheets.



Flight Delays: Seattle/Tacoma  
International Airport

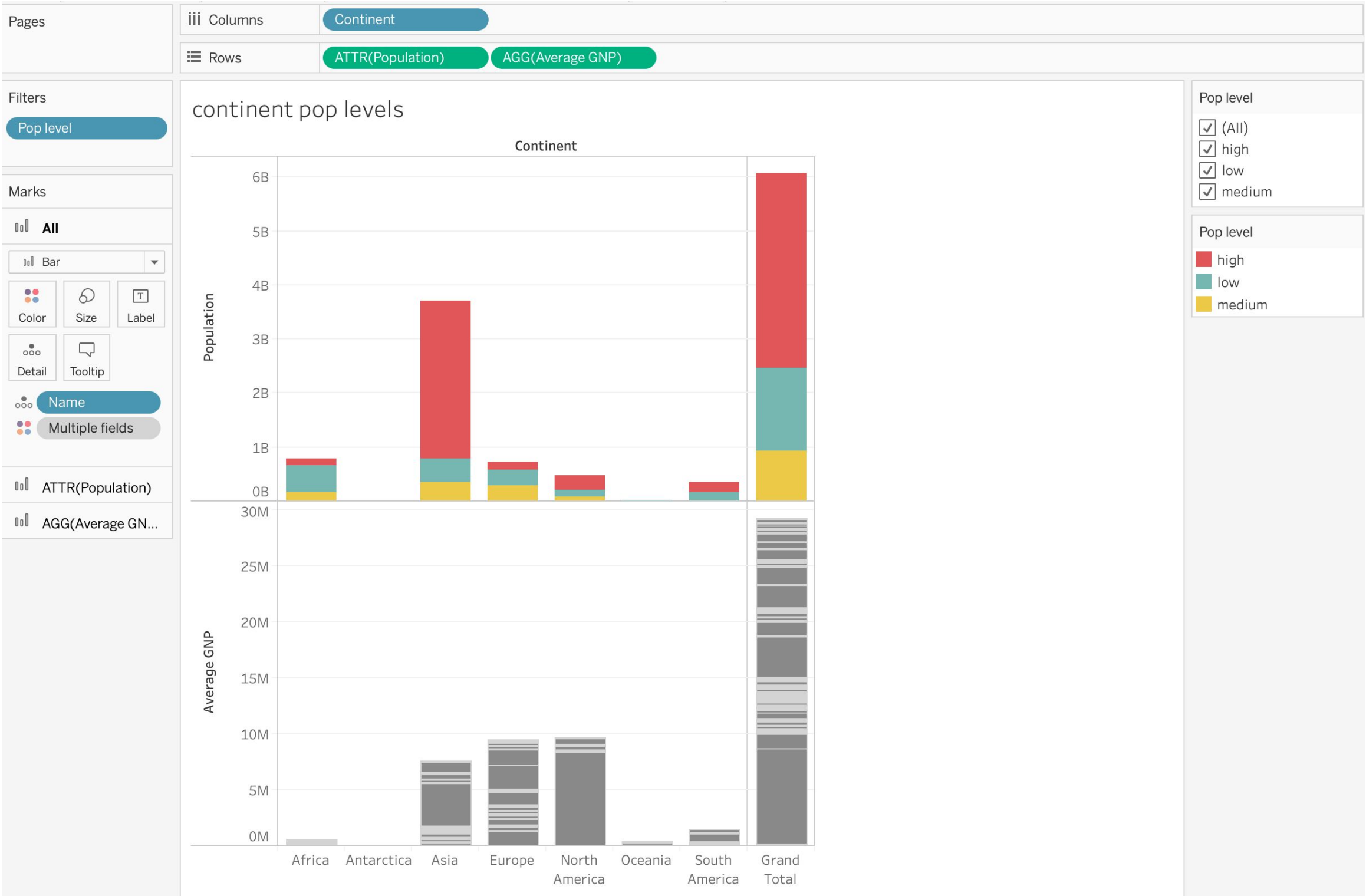
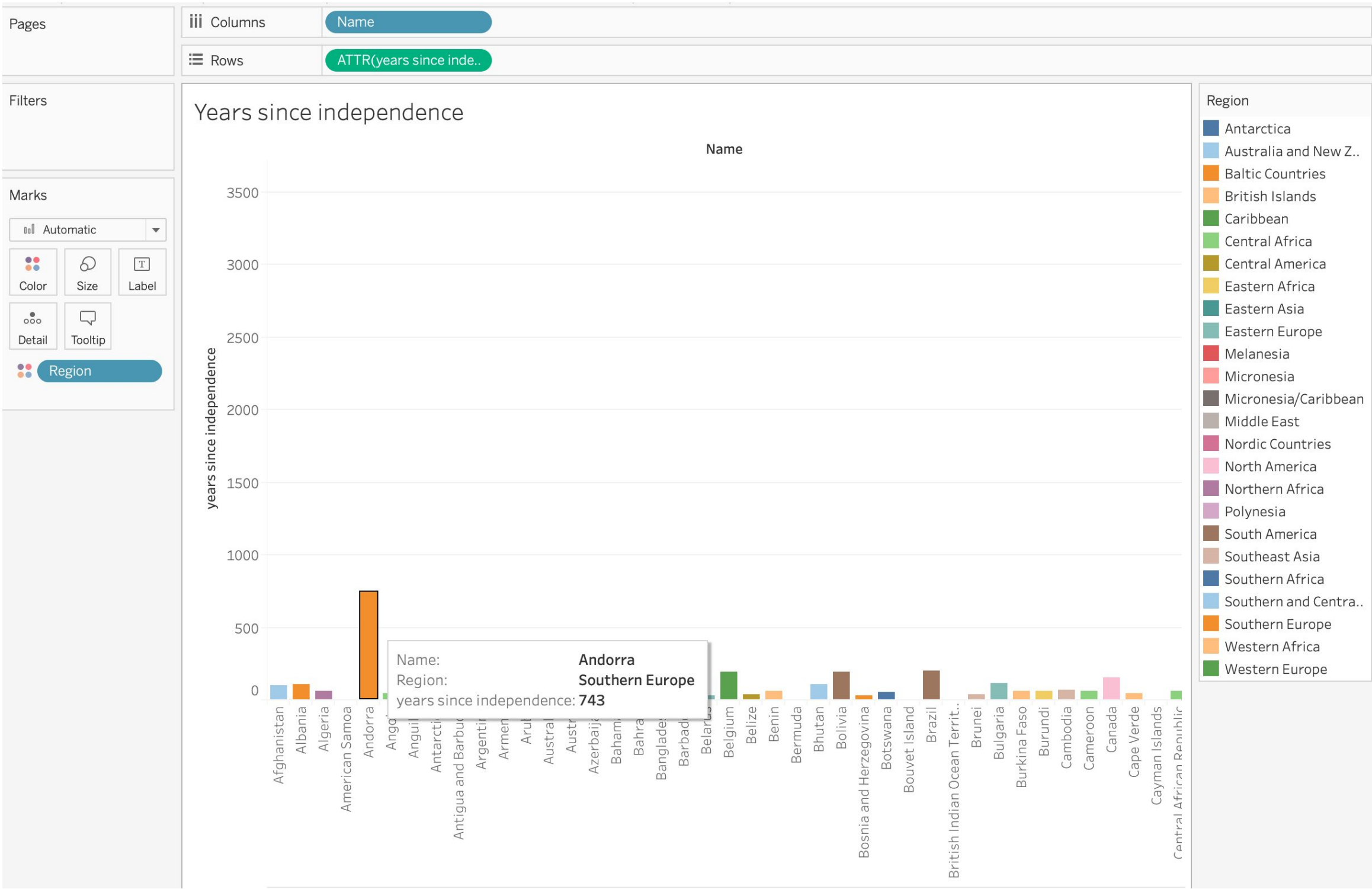
Ala... Del... Vir... Sk... Jet... Un... US... Am... So... Fro... Ha...



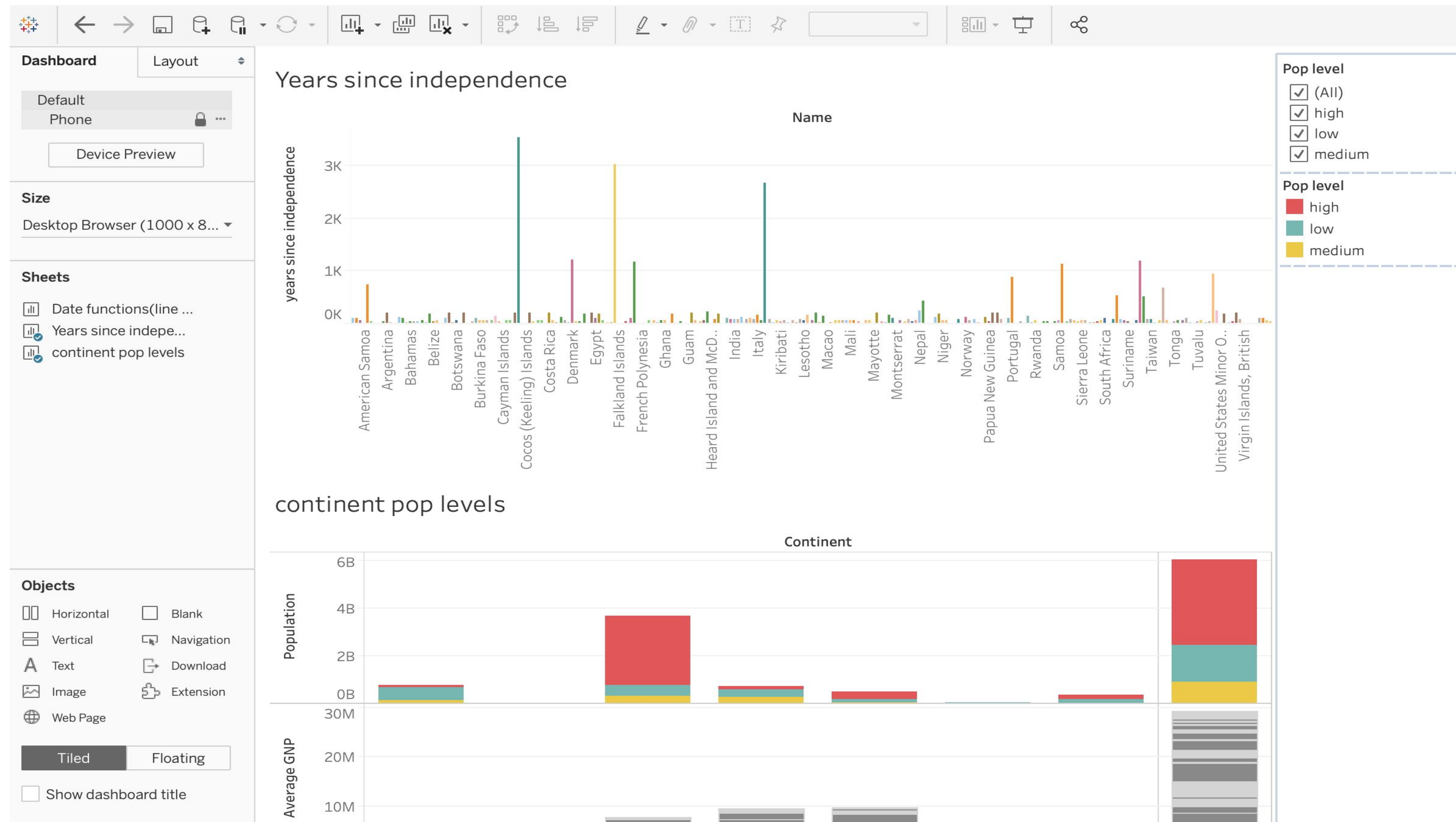


# Inspiration from previous modules

- To practice using multiple filters, let's revisit some charts we have built.



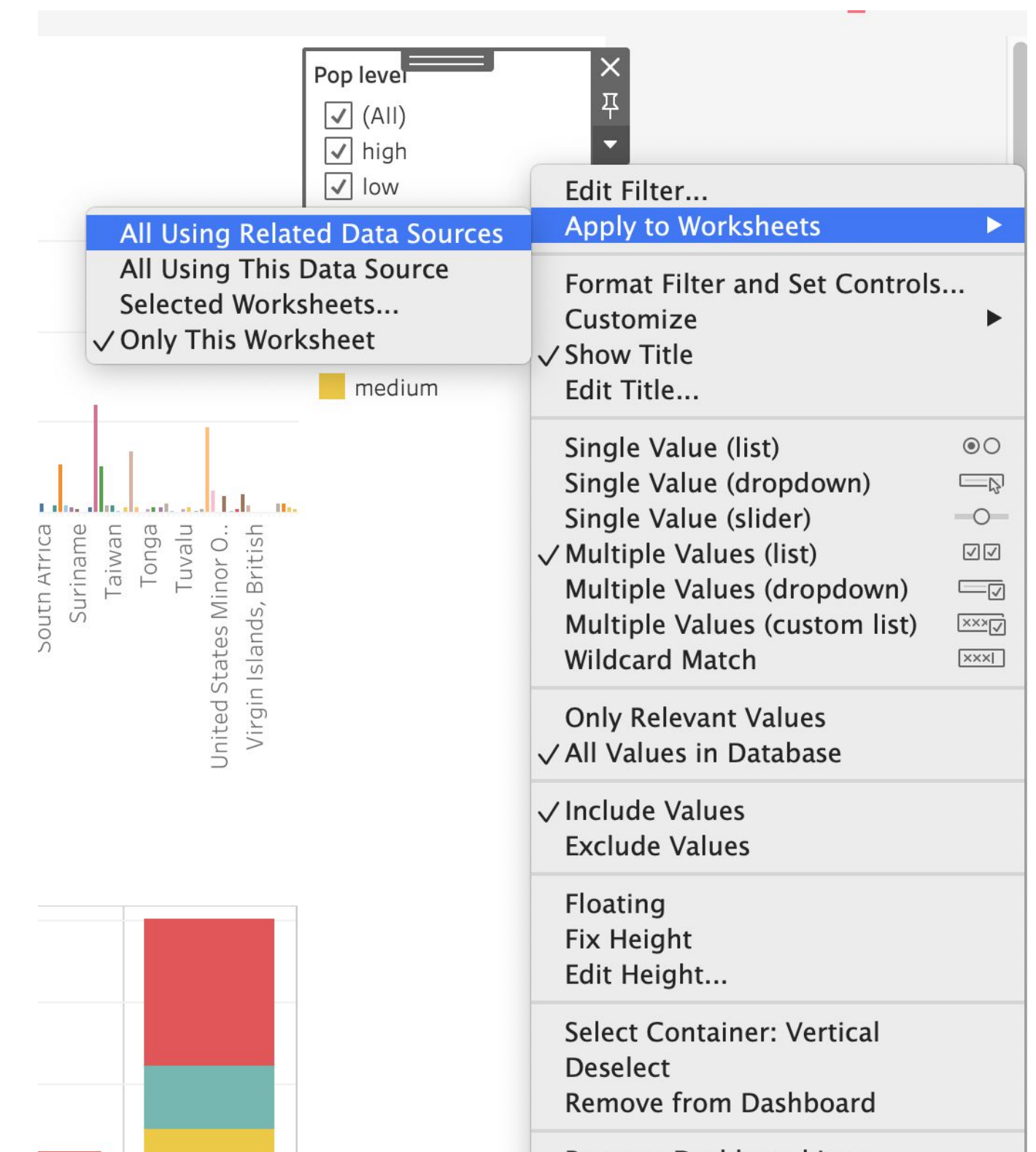
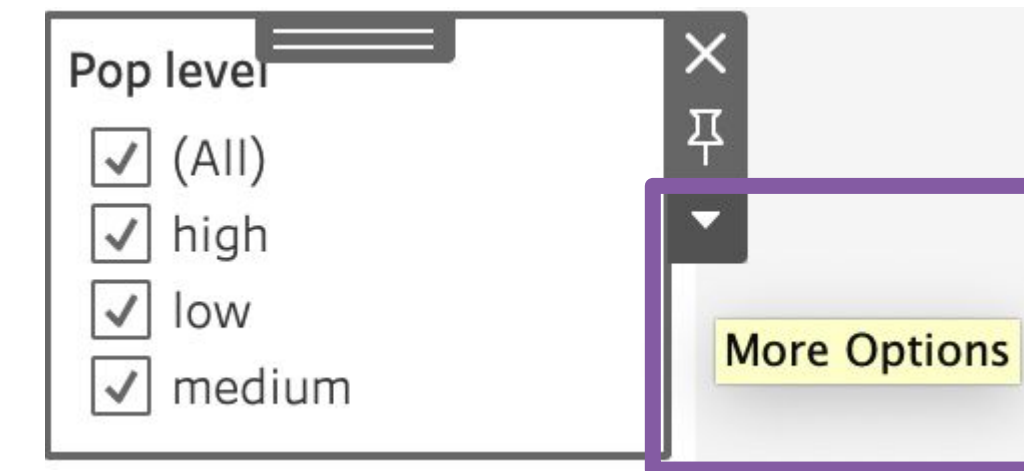
# Add charts to dashboard





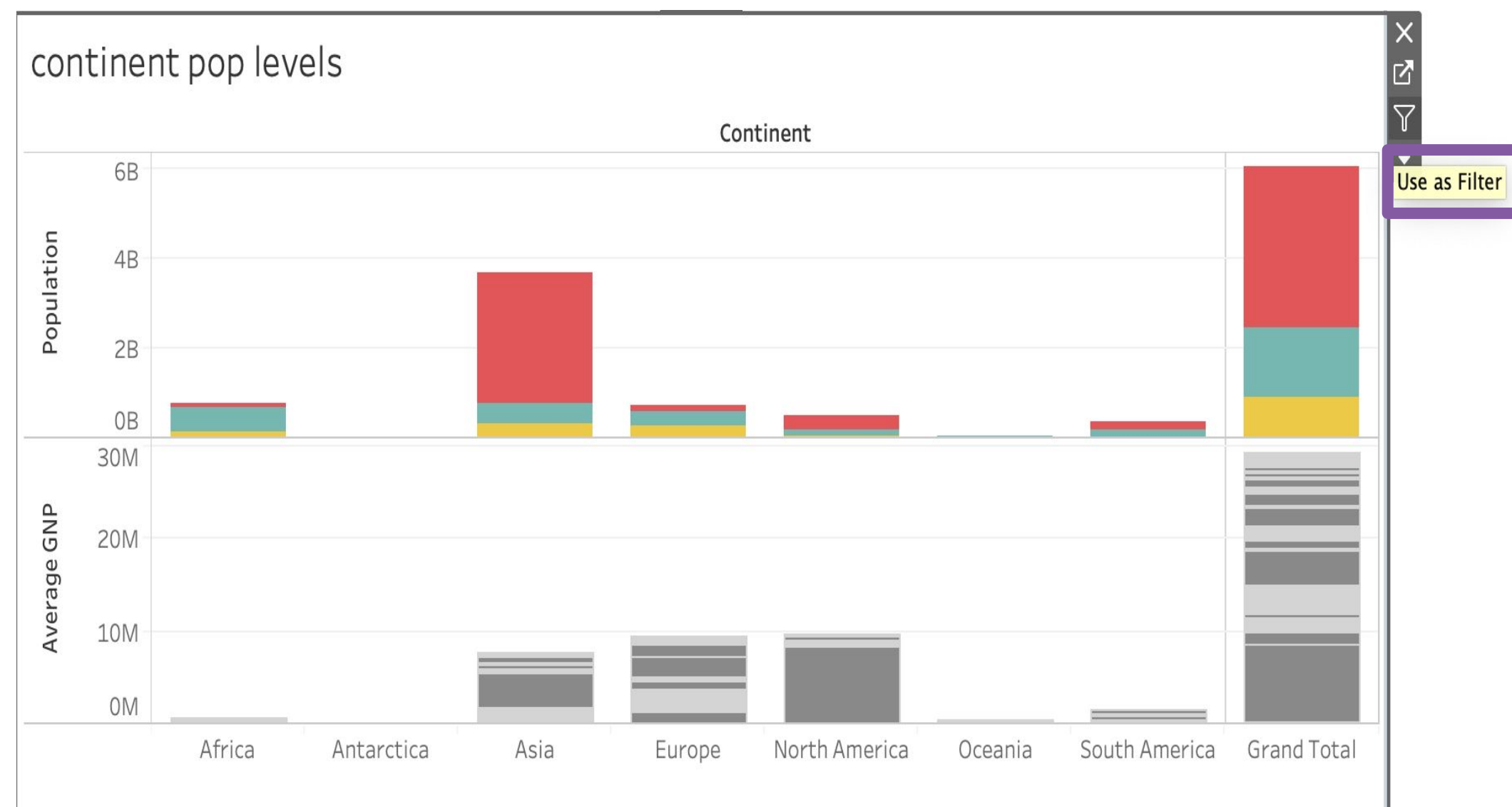
# Couple filtering: option 1

- At this point, the pop level filter on the dashboard **only** applies to the **continent** pop level chart.
- To apply this filter to the years since independence chart:
  - Select the Pop level filter.
  - Click on the “**More Options**” dropdown menu
  - Select “**Apply to Worksheets**” -> “**All Using Related Data Sources.**”
- Now when you select an option in the Pop level filter, both charts are updated.



# Couple filtering: option 2

- You can also use a **chart** in your dashboard **as a filter**.
- Select the chart and click on the **filter icon** to the right.



- Now if we select “**Europe**” from the pop levels chart, you can see that the years since independence chart updates, too.

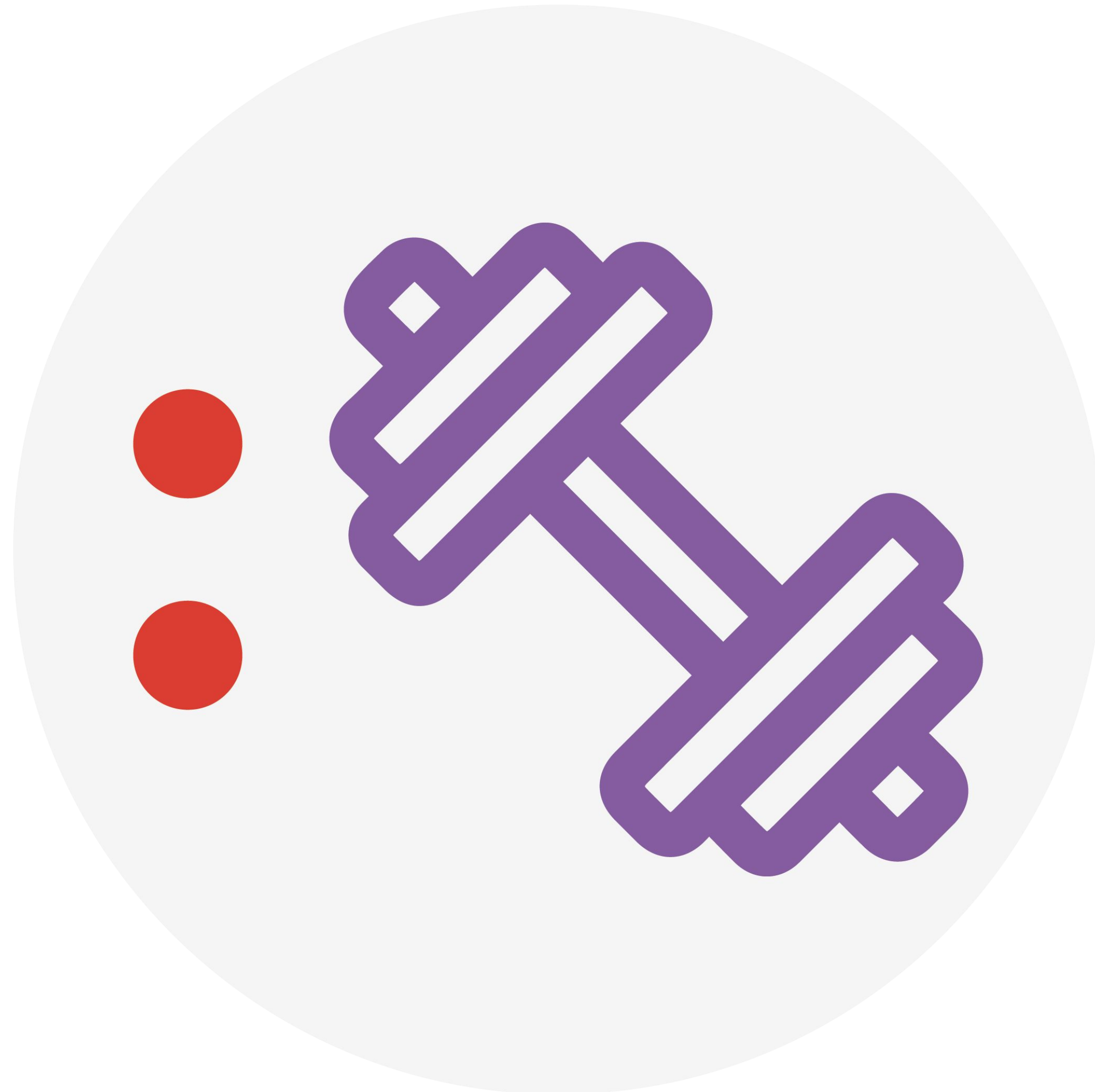


# Knowledge check 12





# Exercise 12



# Module completion checklist

Objective	Complete
Introduce the concept of geospatial visualization	✓
Implement geospatial visualization for given dataset	✓
Identify and correct errors to facilitate proper joining with geospatial data	✓
Introduce the concept of Dashboards	✓
Combine previously created visualizations into Dashboard	✓

# Congratulations!

In the past few modules, we covered:

- Defining geospatial visualization
- Generating coordinates
- Cleaning and fixing geospatial data
- Creating a final dashboard



# ● End of Part 12





# DATA SOCIETY:

Congratulations!

