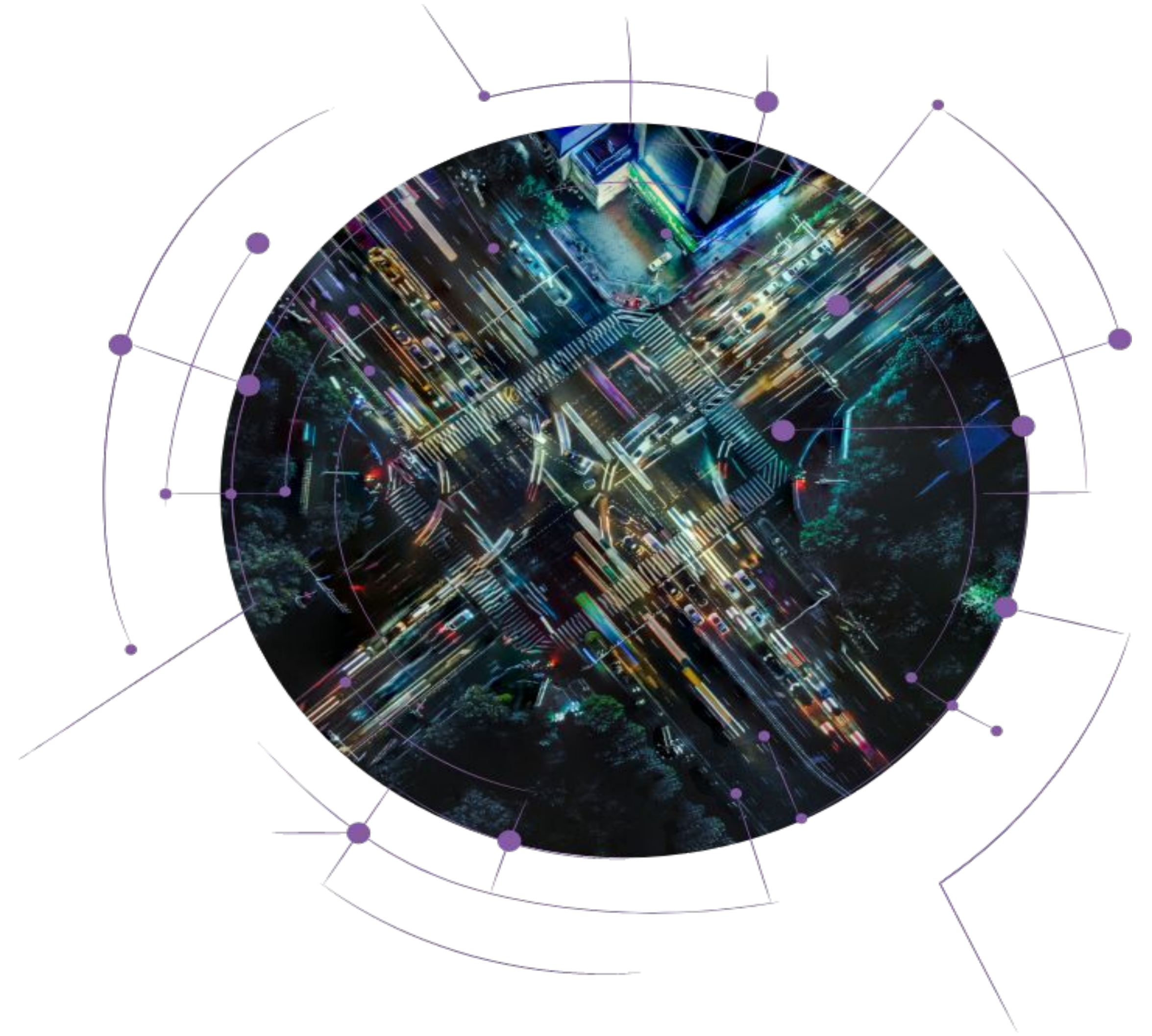


DATA SOCIETY:

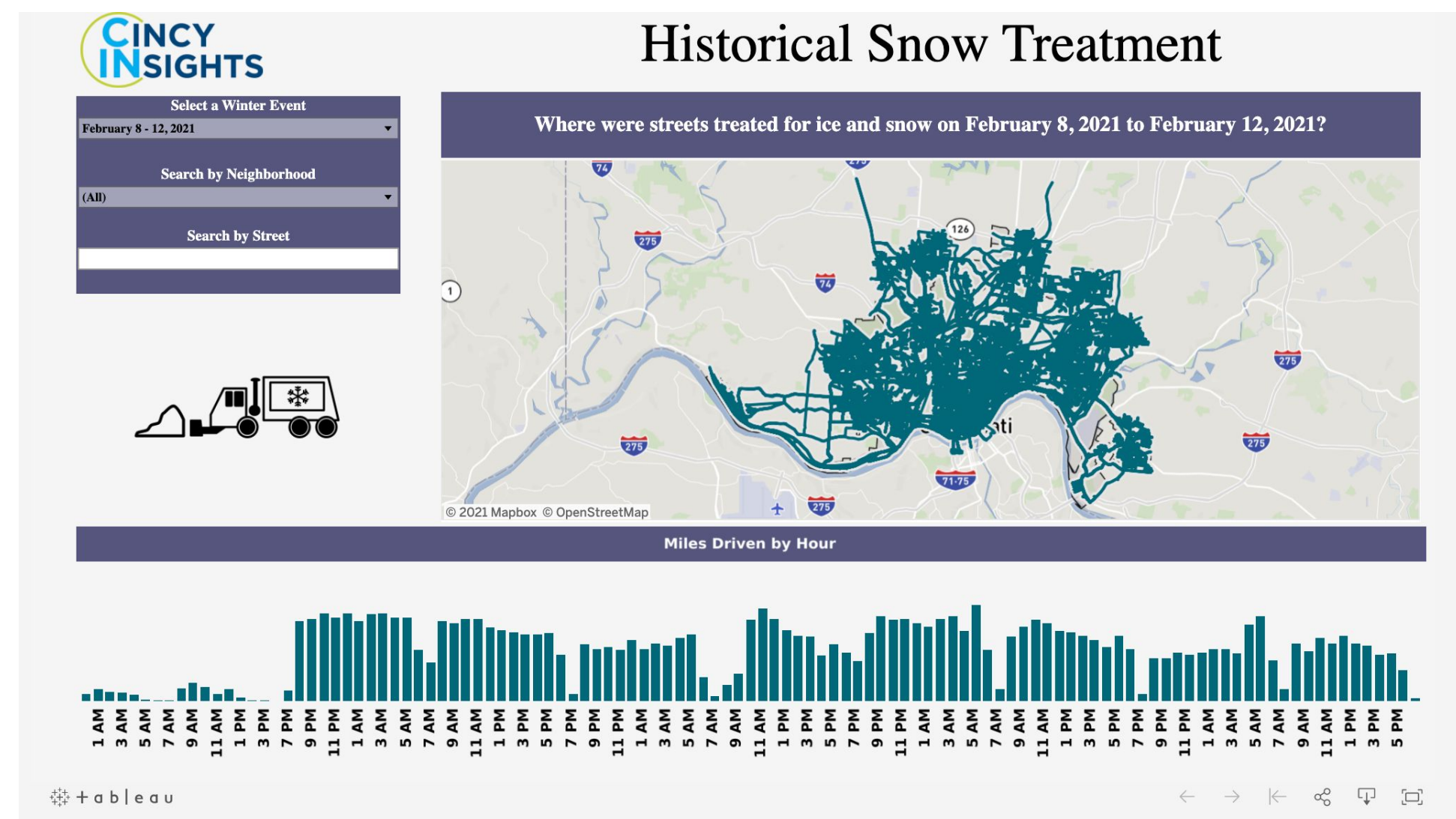
Introduction to Tableau

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.



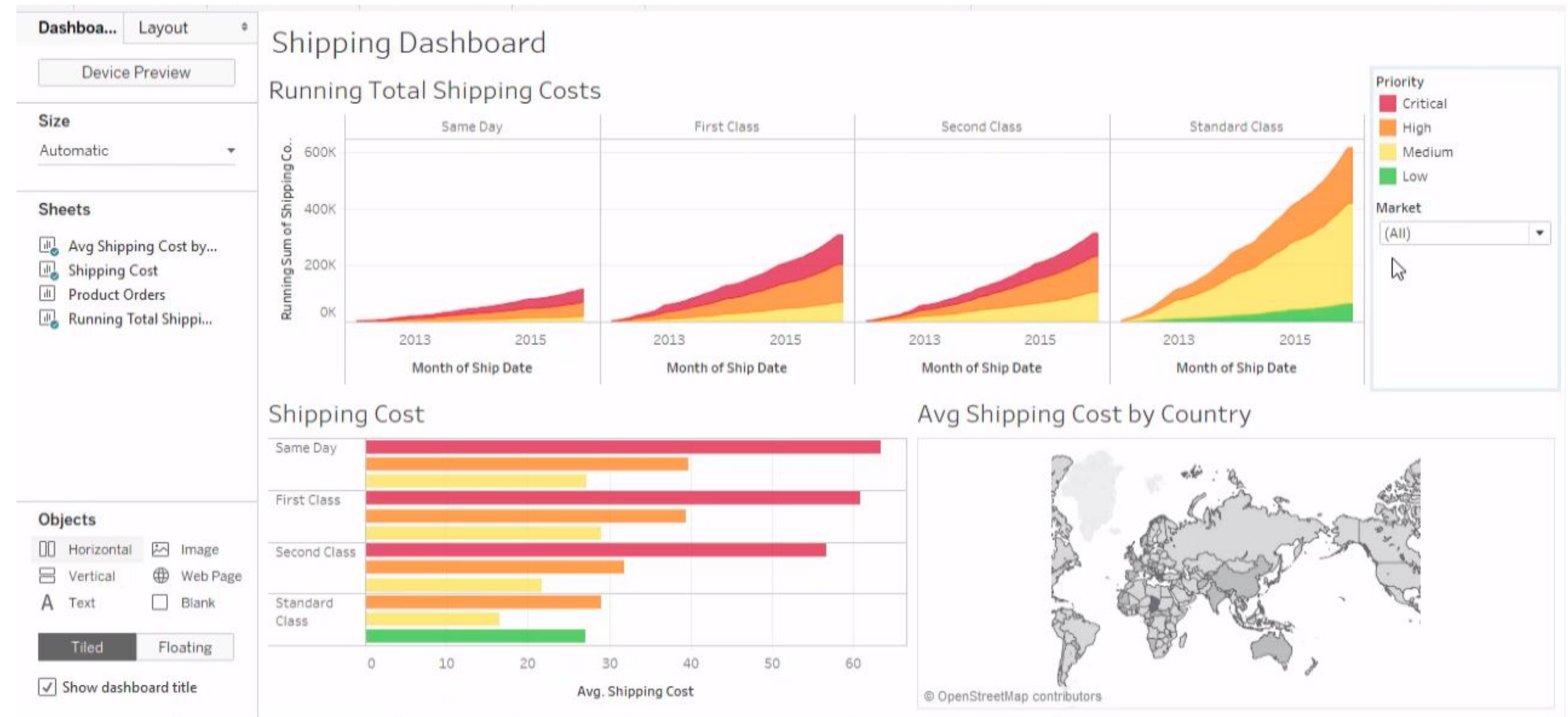
[Cincinnati Snow Tracker \(link\)](#)

Module completion checklist

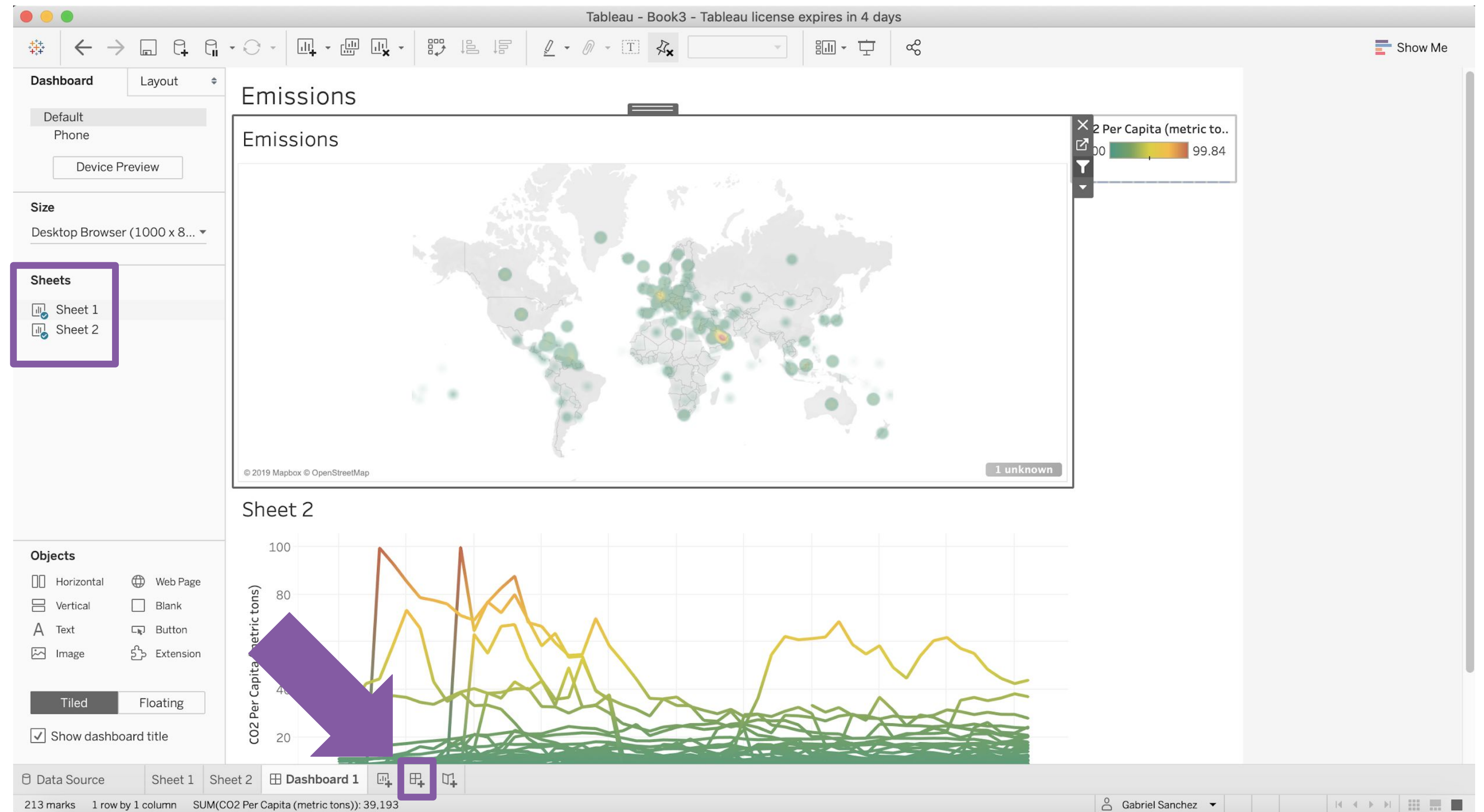
Objective	Complete
Introduce the concept of geospatial visualization	✓
Implement geospatial visualization for given dataset	✓
Identify and correct errors to facilitate proper joining with geospatial data	✓
Introduce the concept of Dashboards	
Combine previously created visualizations into Dashboard	

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.



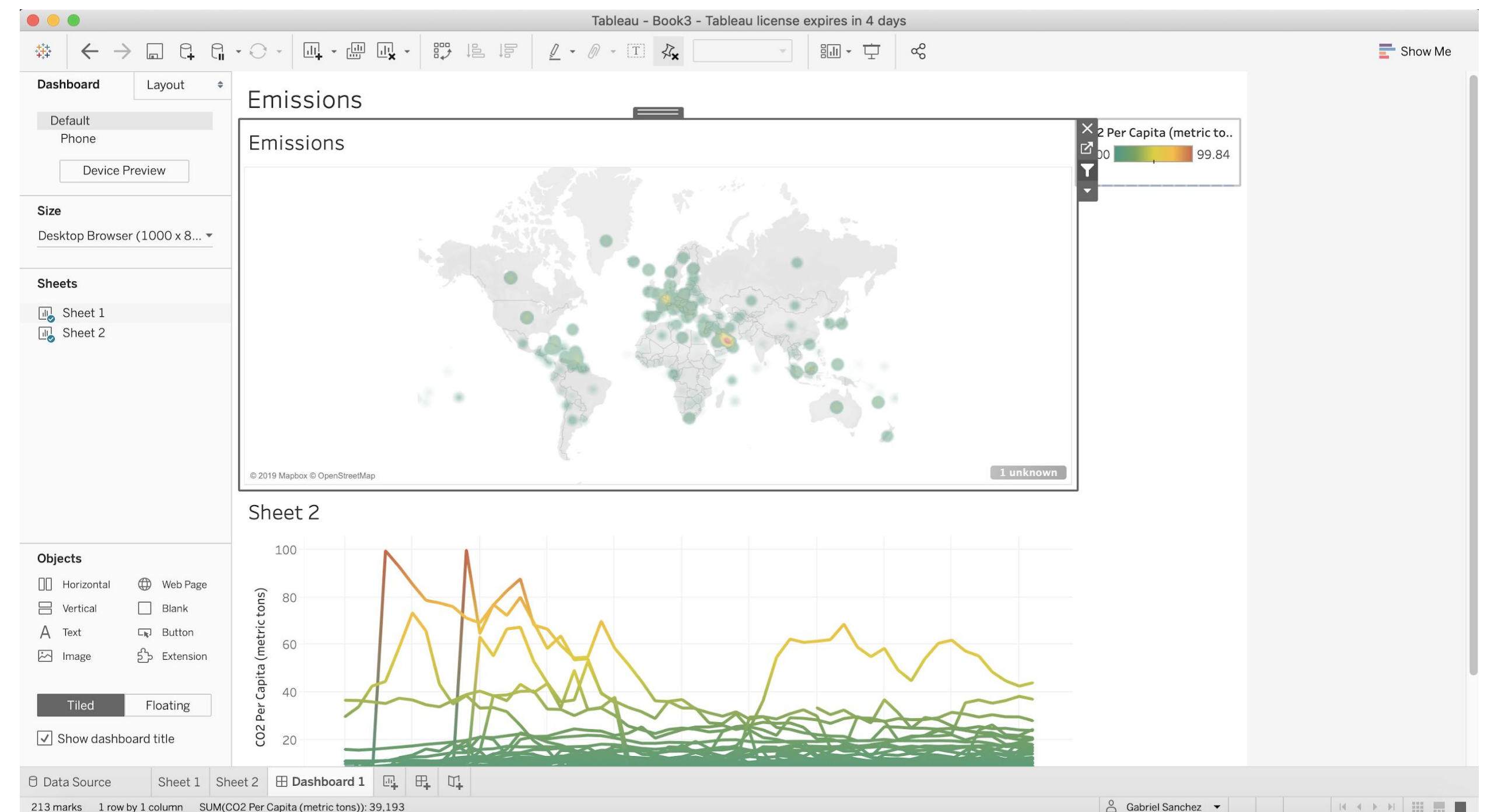
Creating a new dashboard



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.

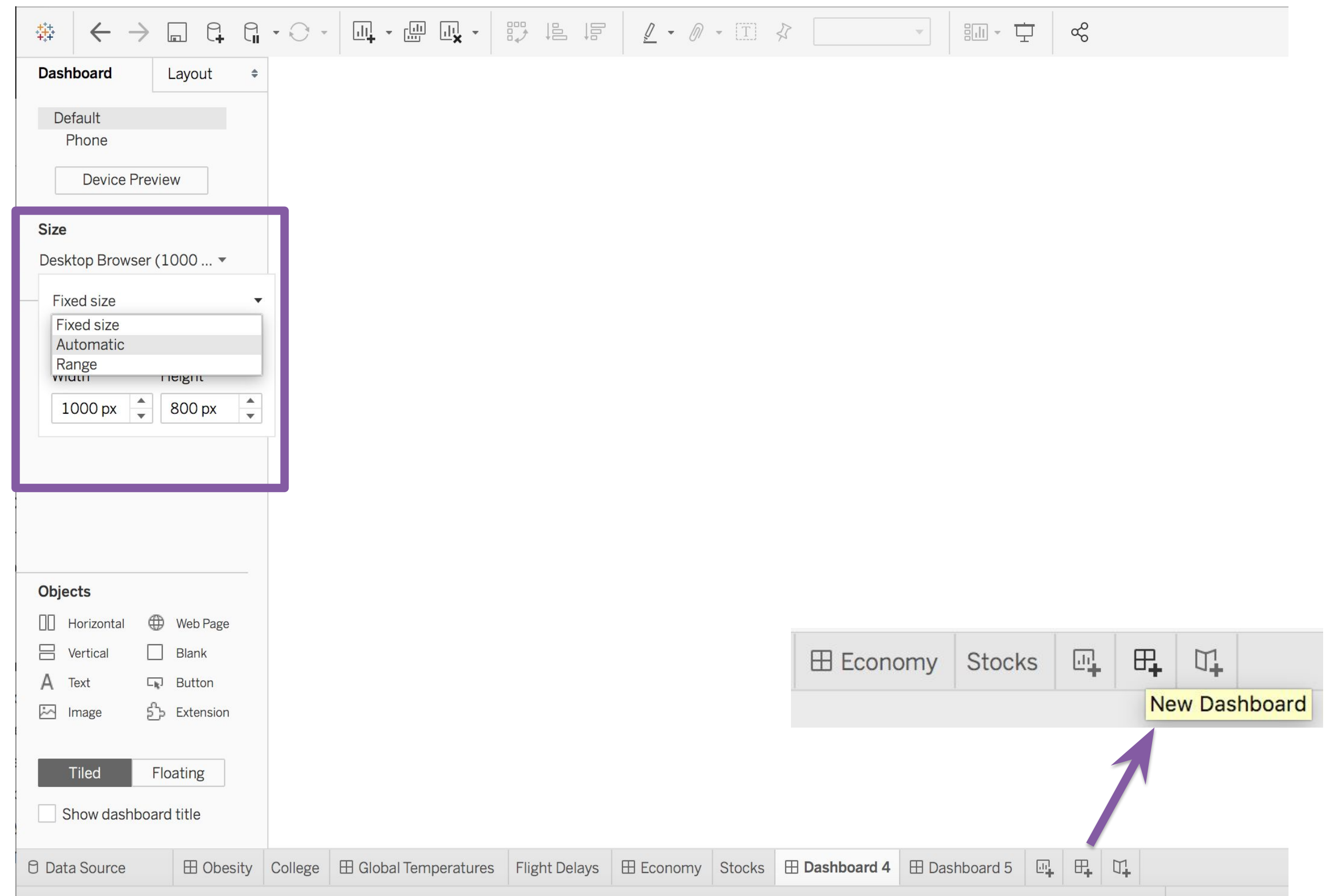


Module completion checklist

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?

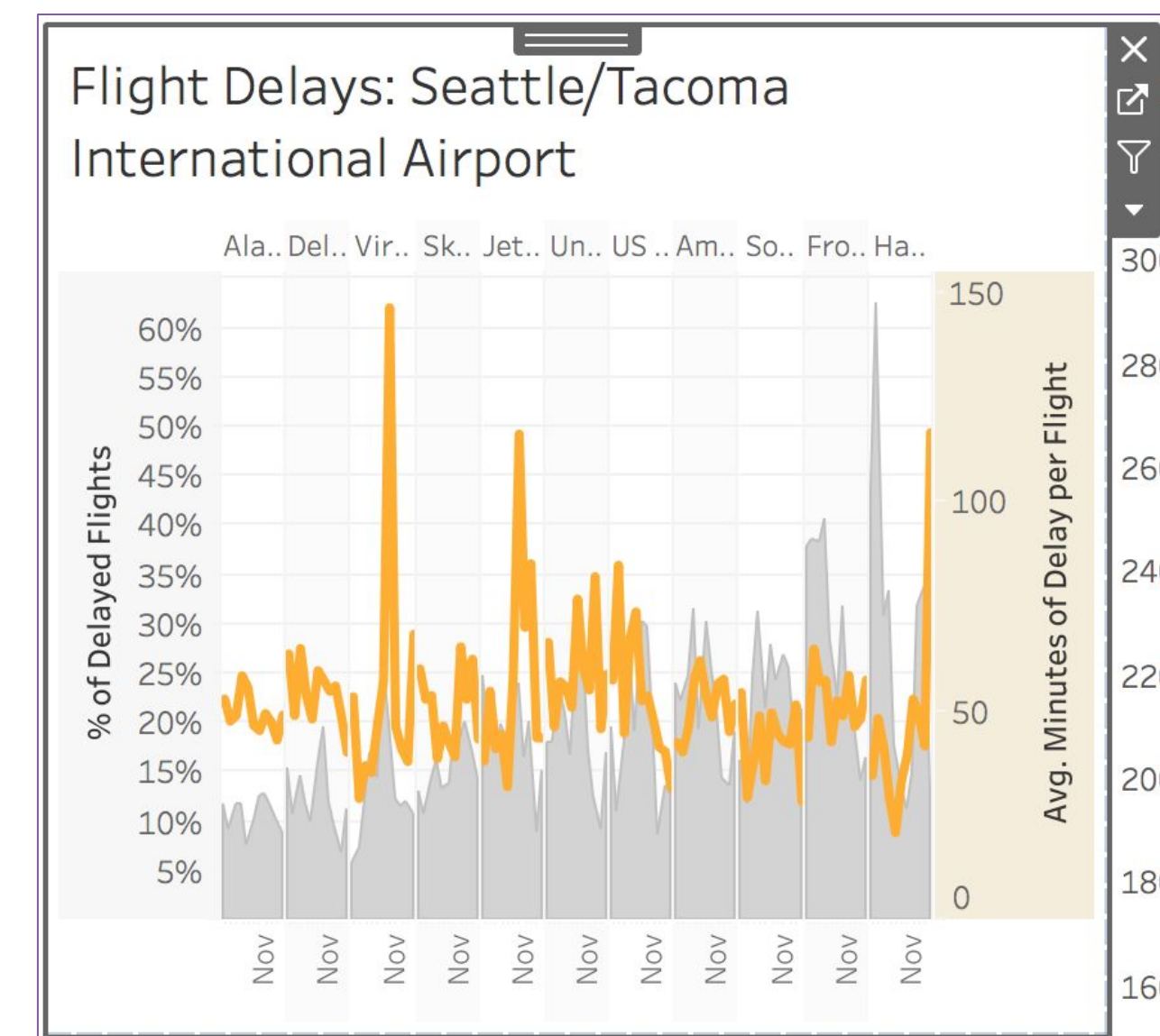
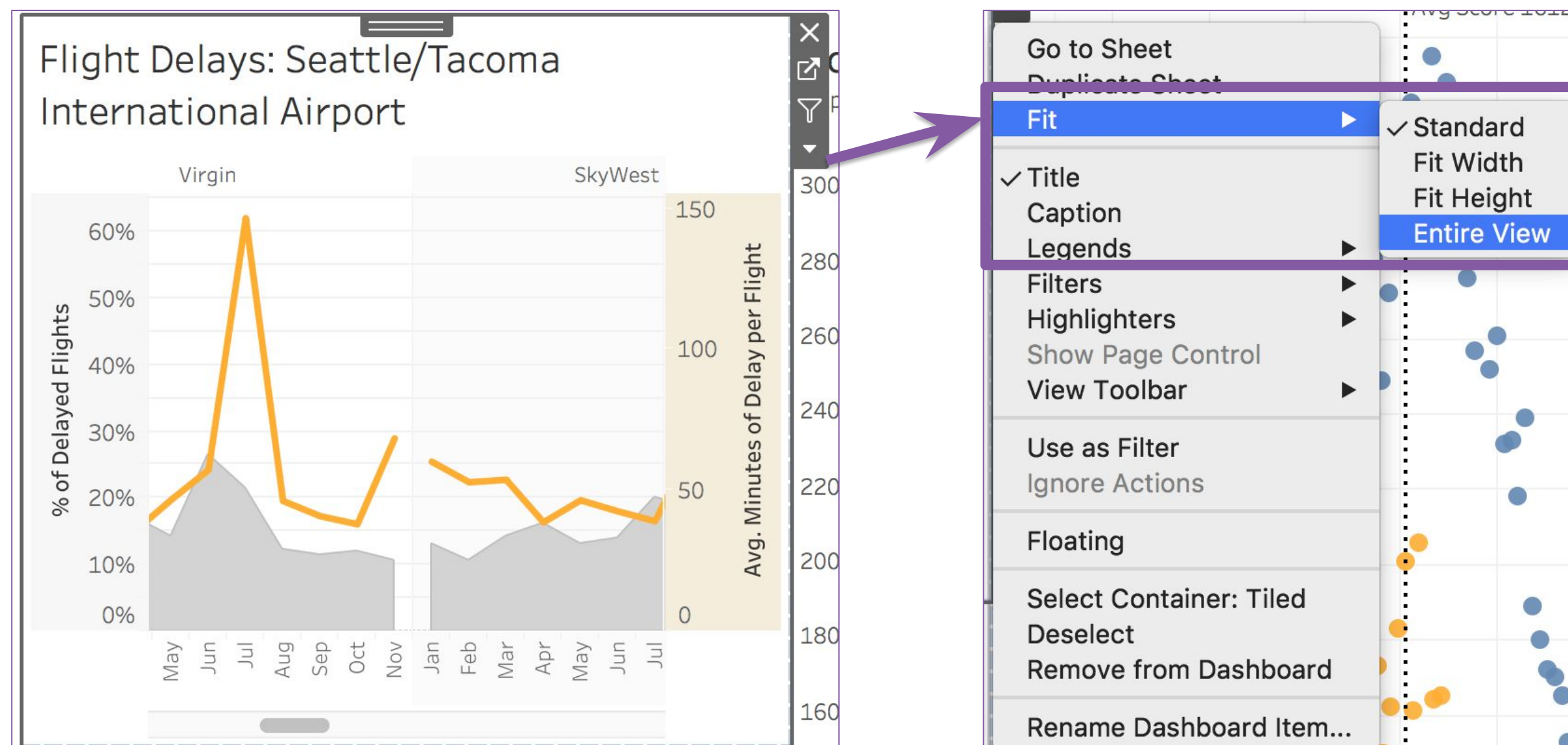


Building your first dashboard

- 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

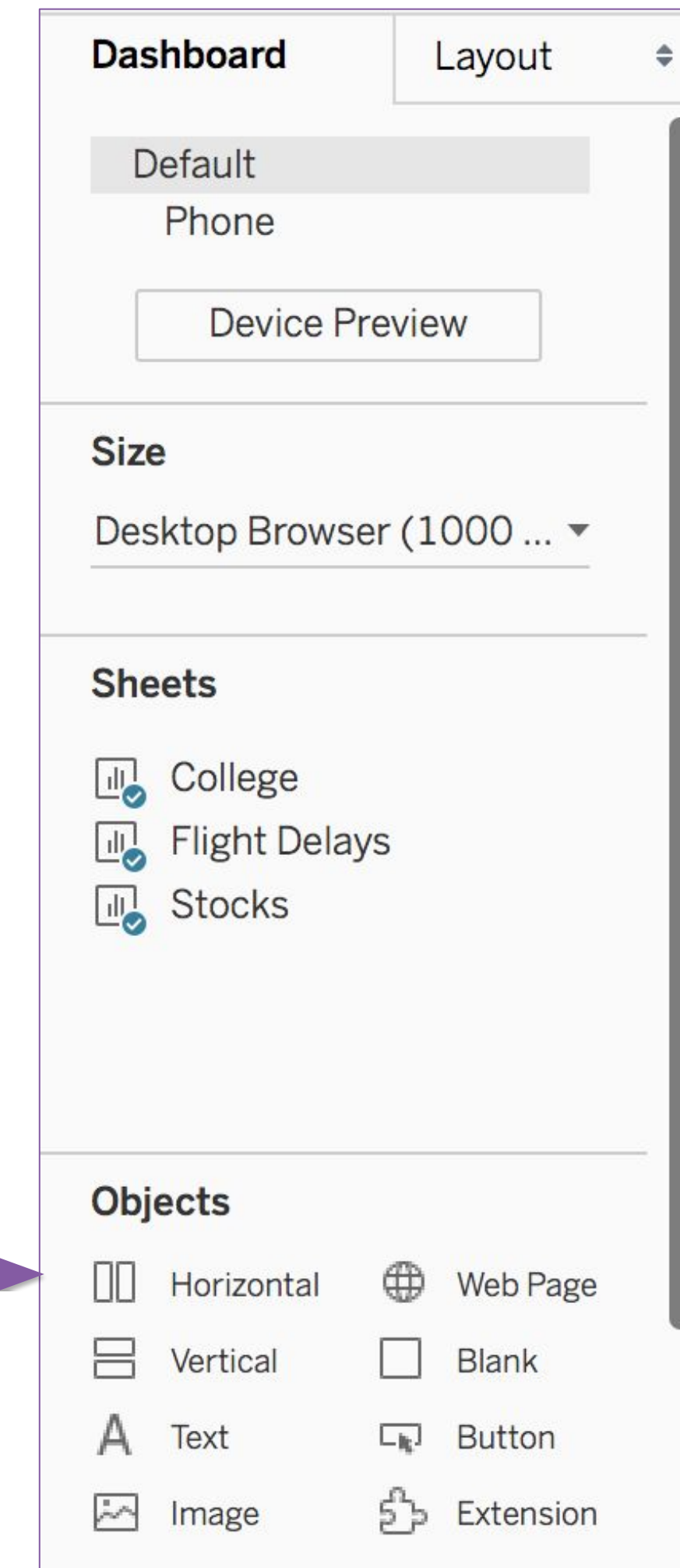
- Fit options
 - Fix issues with out-of-frame sheets
- Filter options
- Title options



Objects and containers

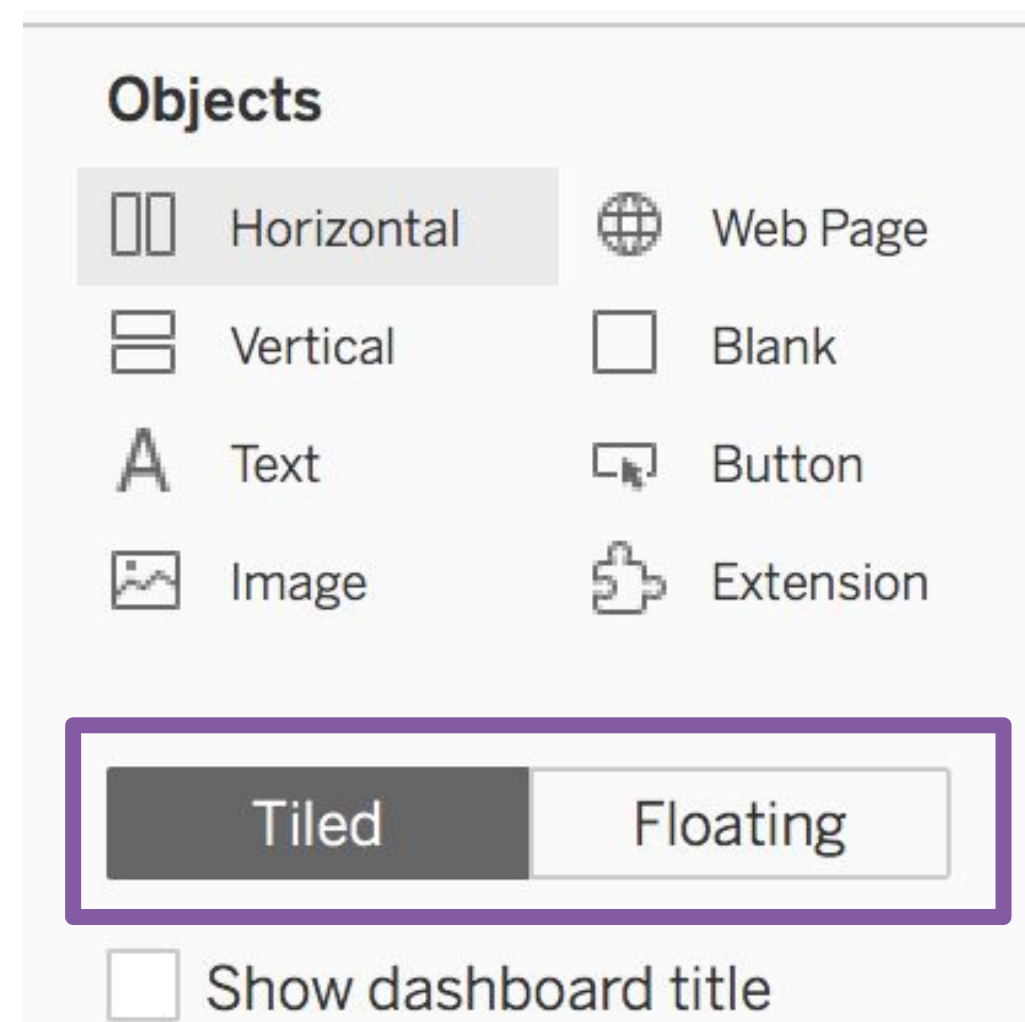
- The Dashboard menu can add objects and containers.
- Containers hold items and scale them together.
- You can also add other kinds of objects:
 - Web pages.
 - Blank spacers.
 - Images.
 - Text.
 - Extensions.
 - Buttons.

Horizontal or
vertical
container

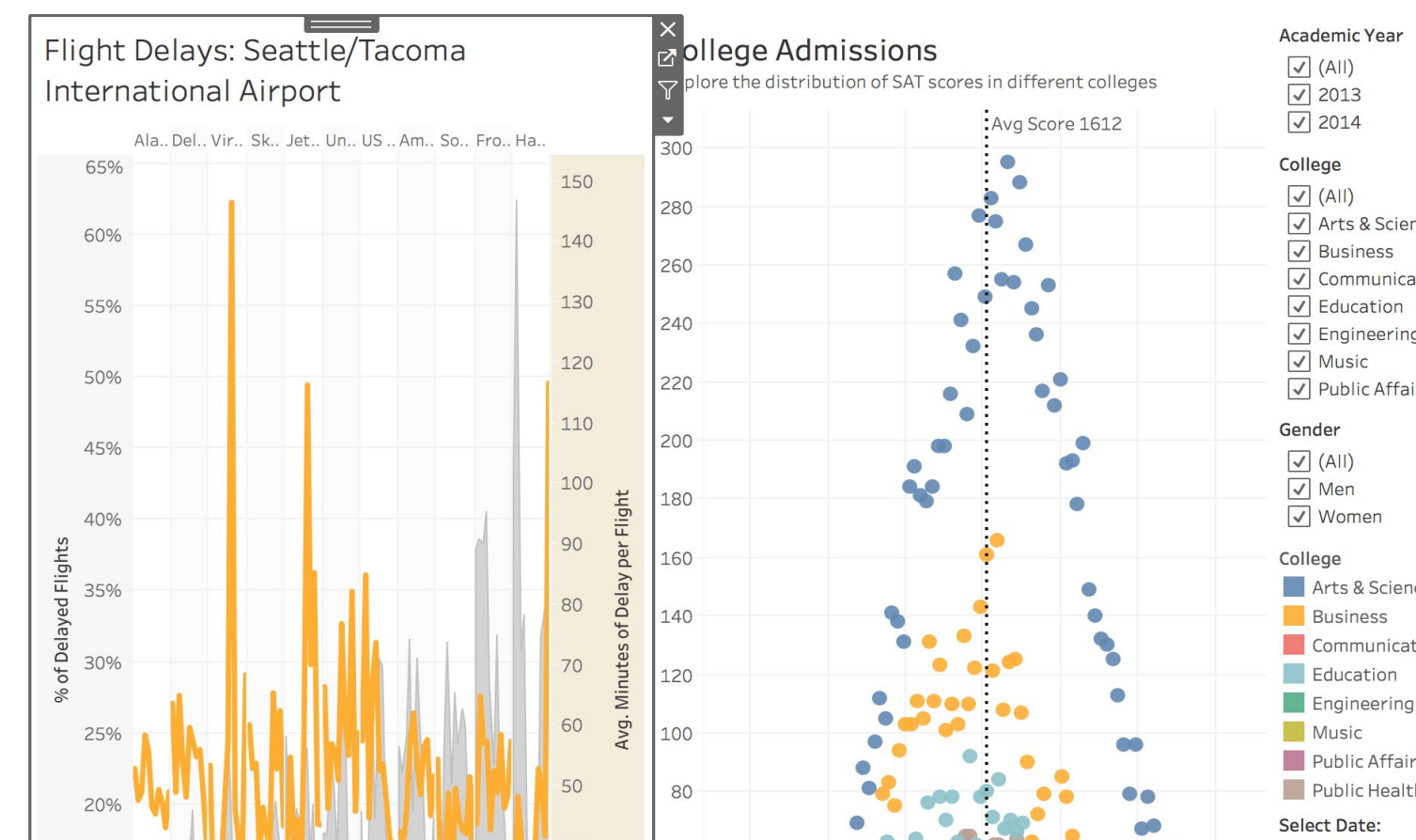


Tiled vs. floating elements

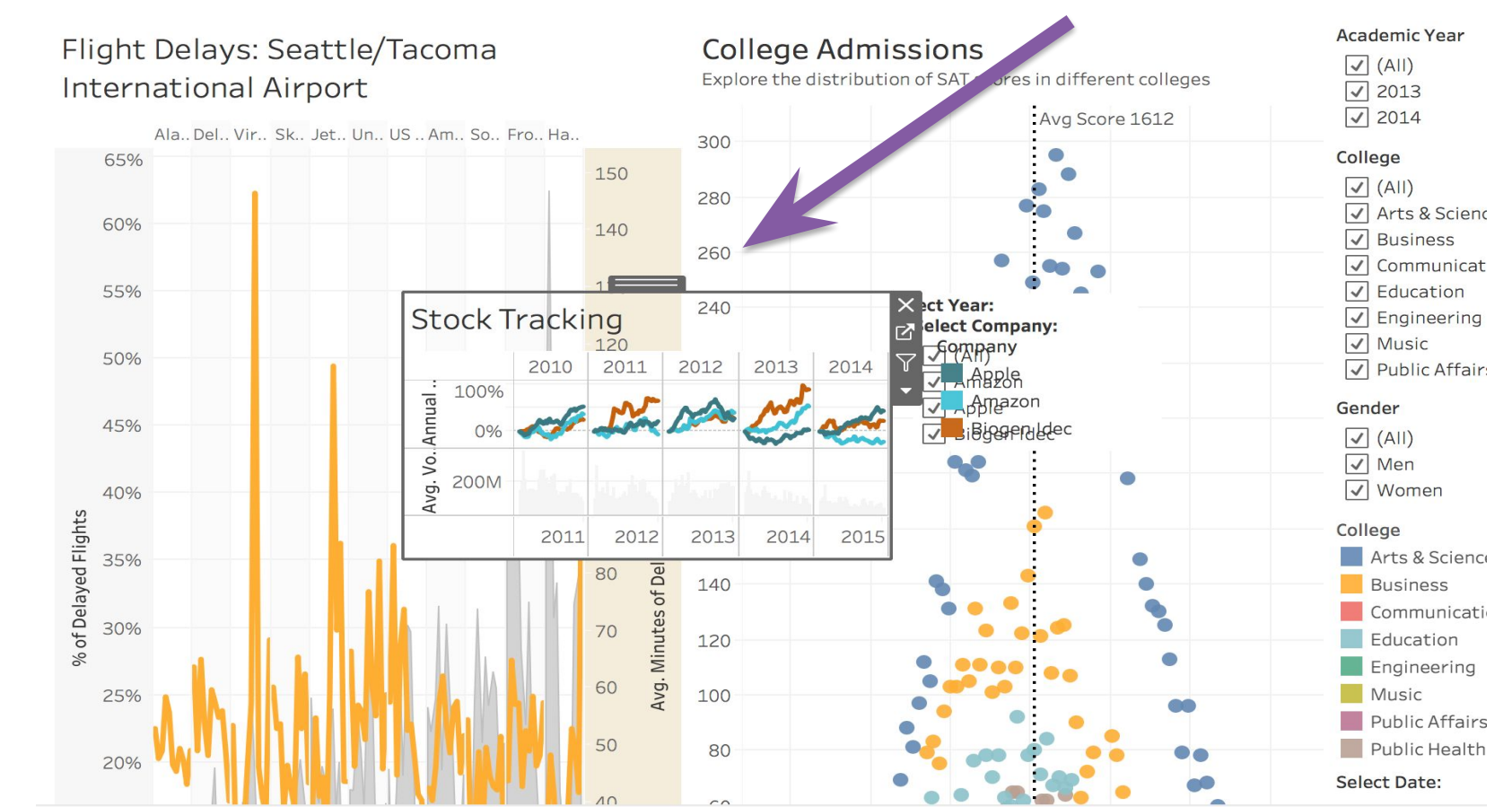
- Each object or layout container can be either **tiled** or **floating**.
- Different effects on shape and sizing.



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

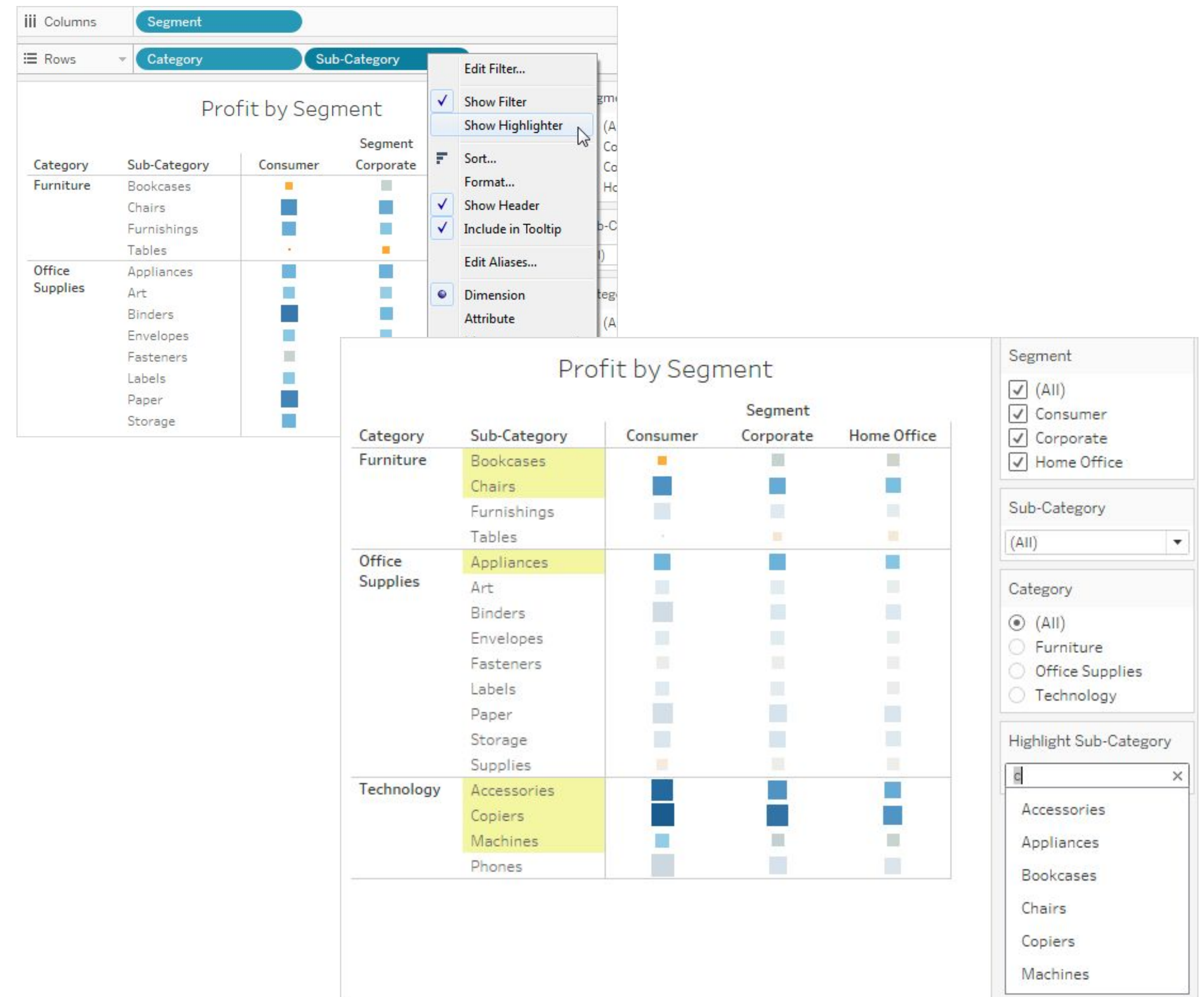


- **Floating**
 - Layered on top of other objects.
 - Can have a fixed size and position.



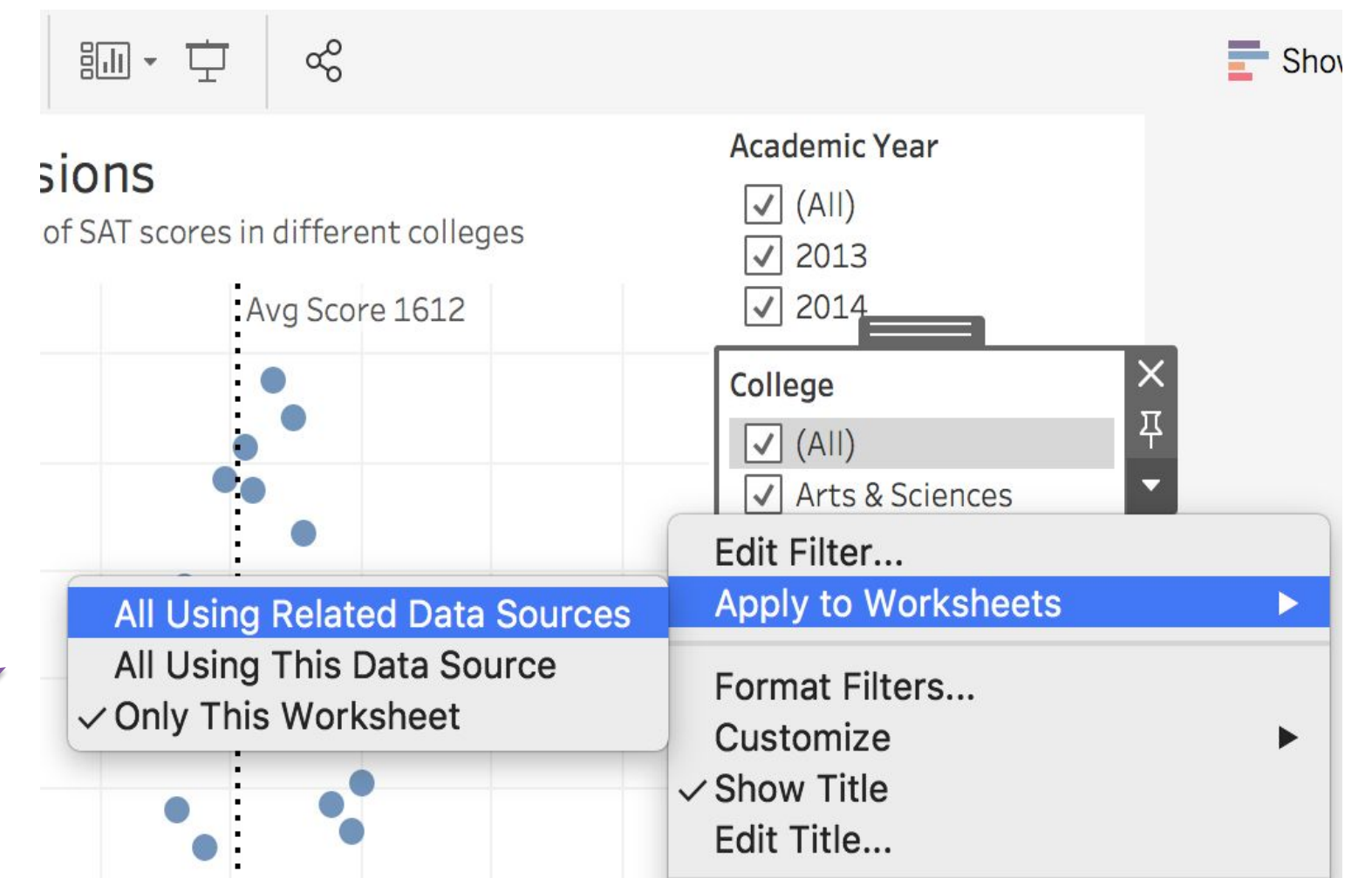
Highlighting

- 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.



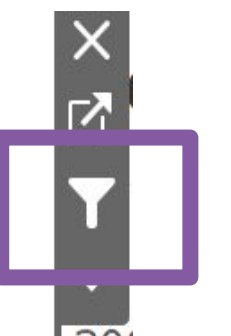
Couple filtering

- 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.



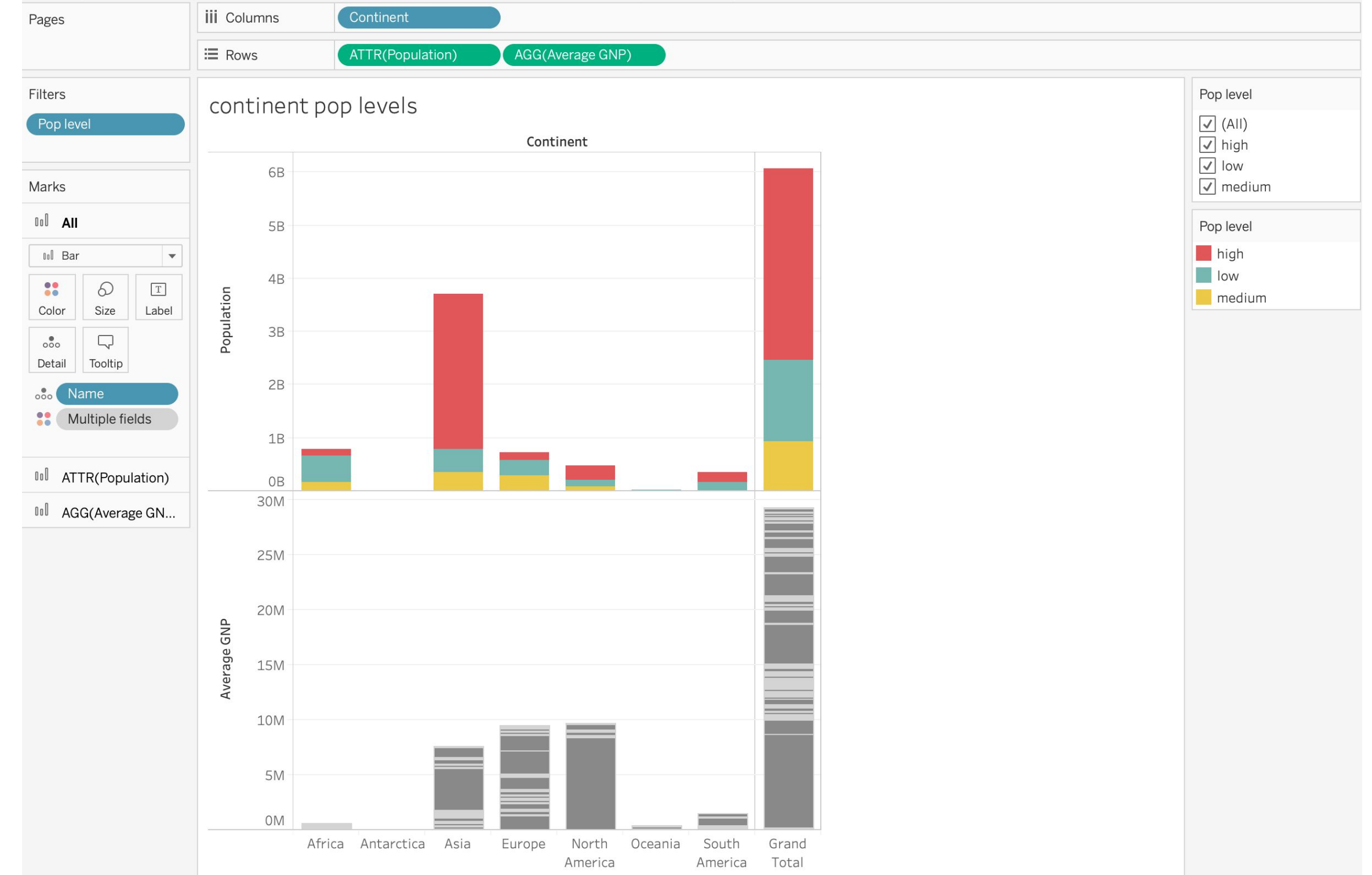
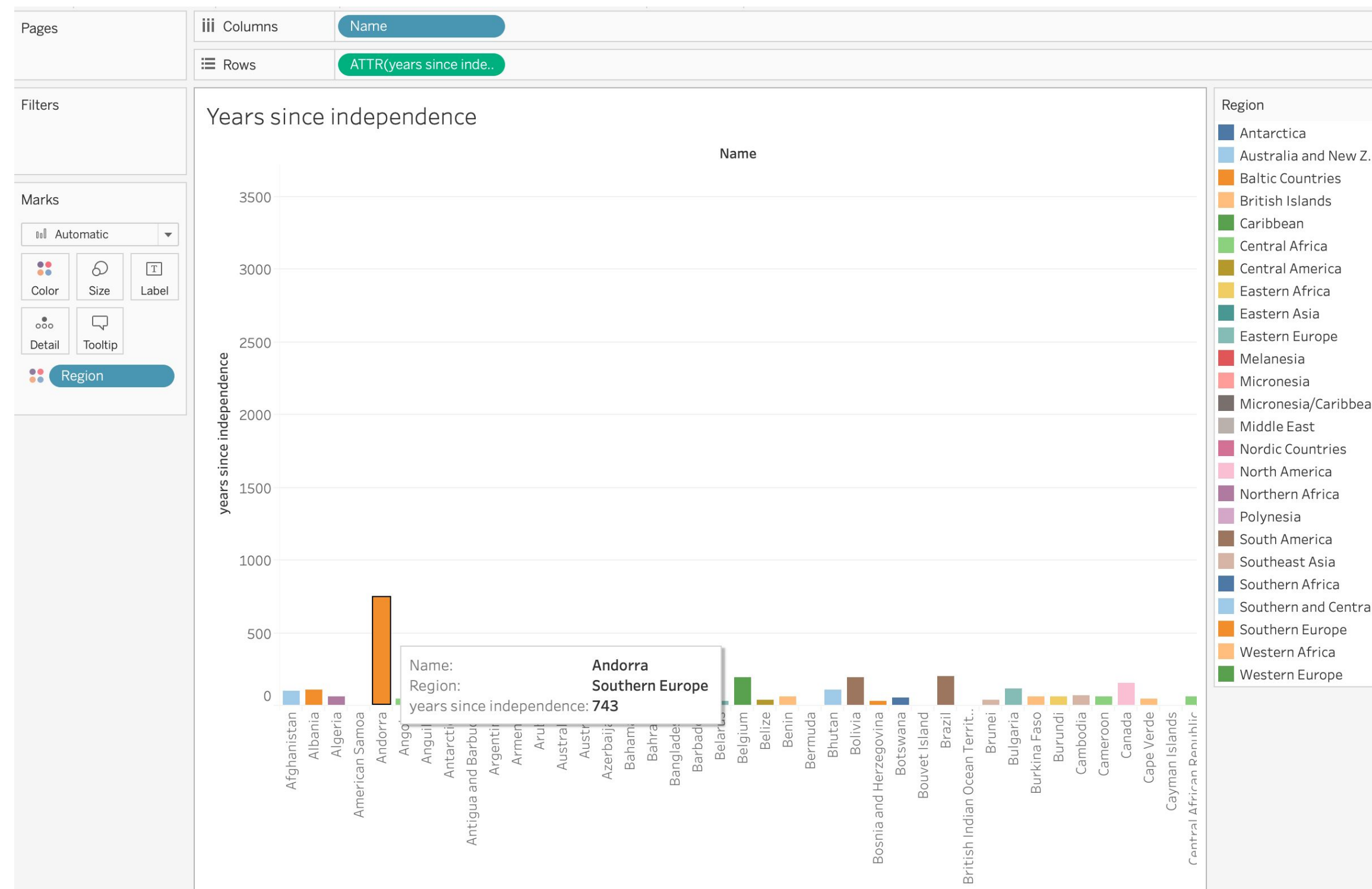
Flight Delays: Seattle/Tacoma
International Airport

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

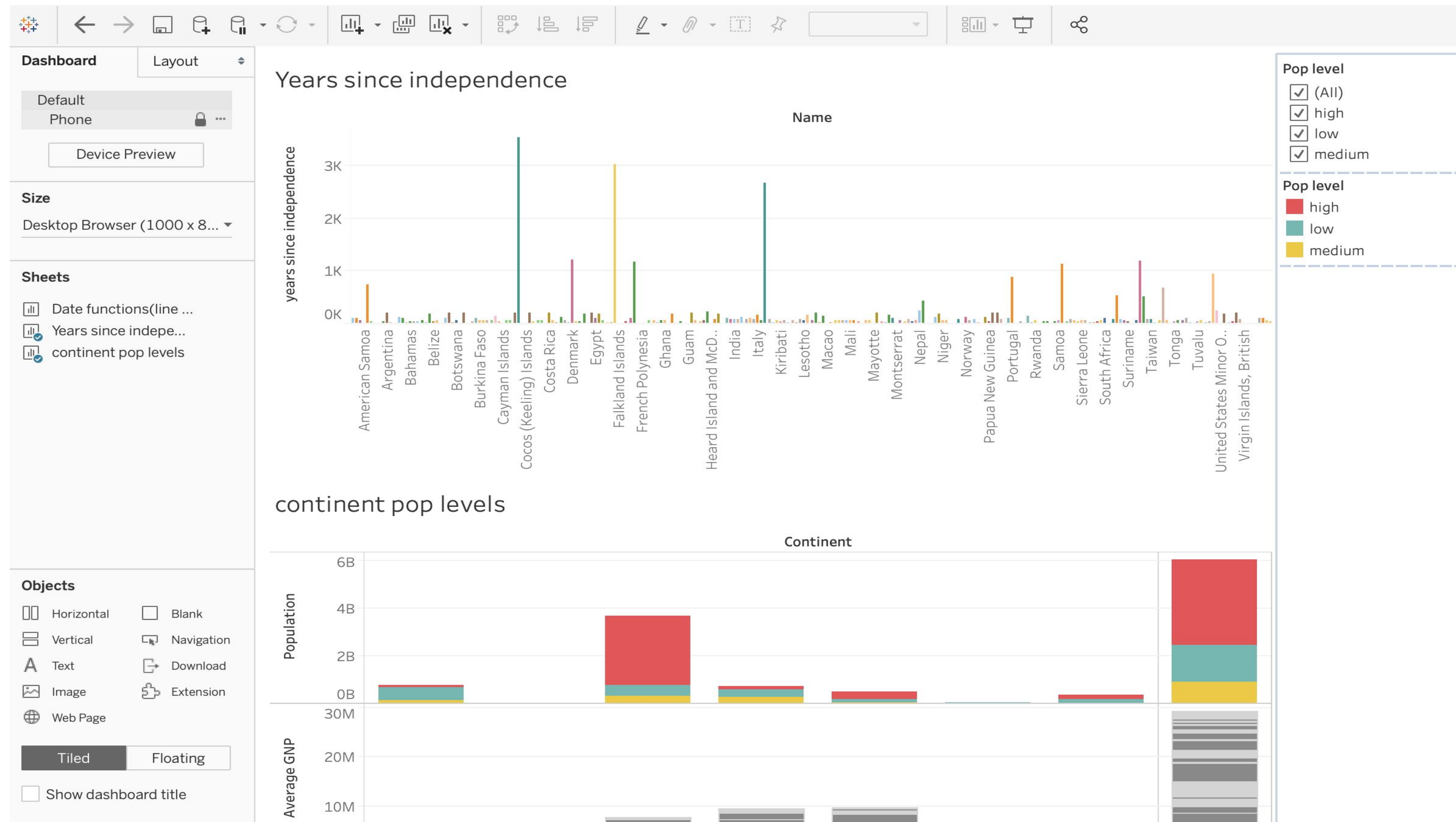


Inspiration from previous modules

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

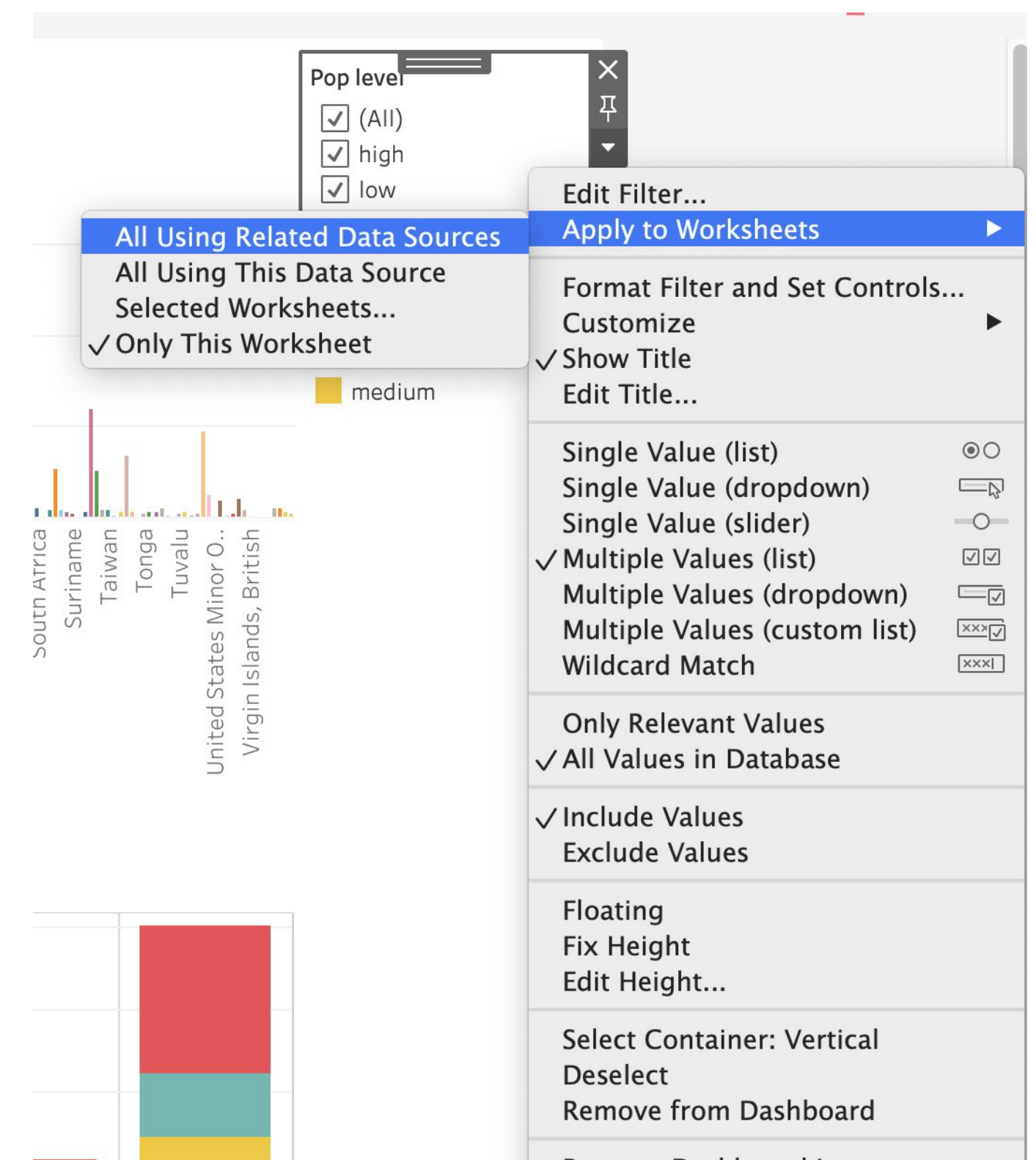
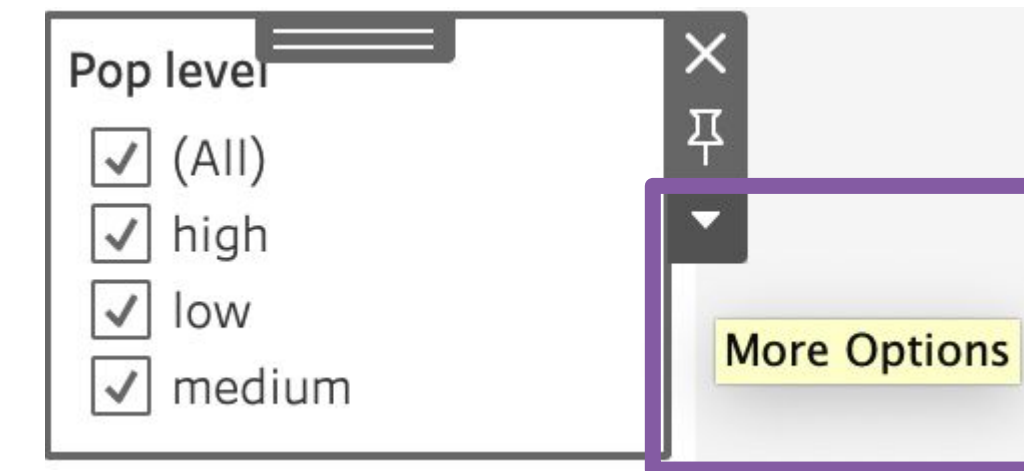


Add charts to dashboard



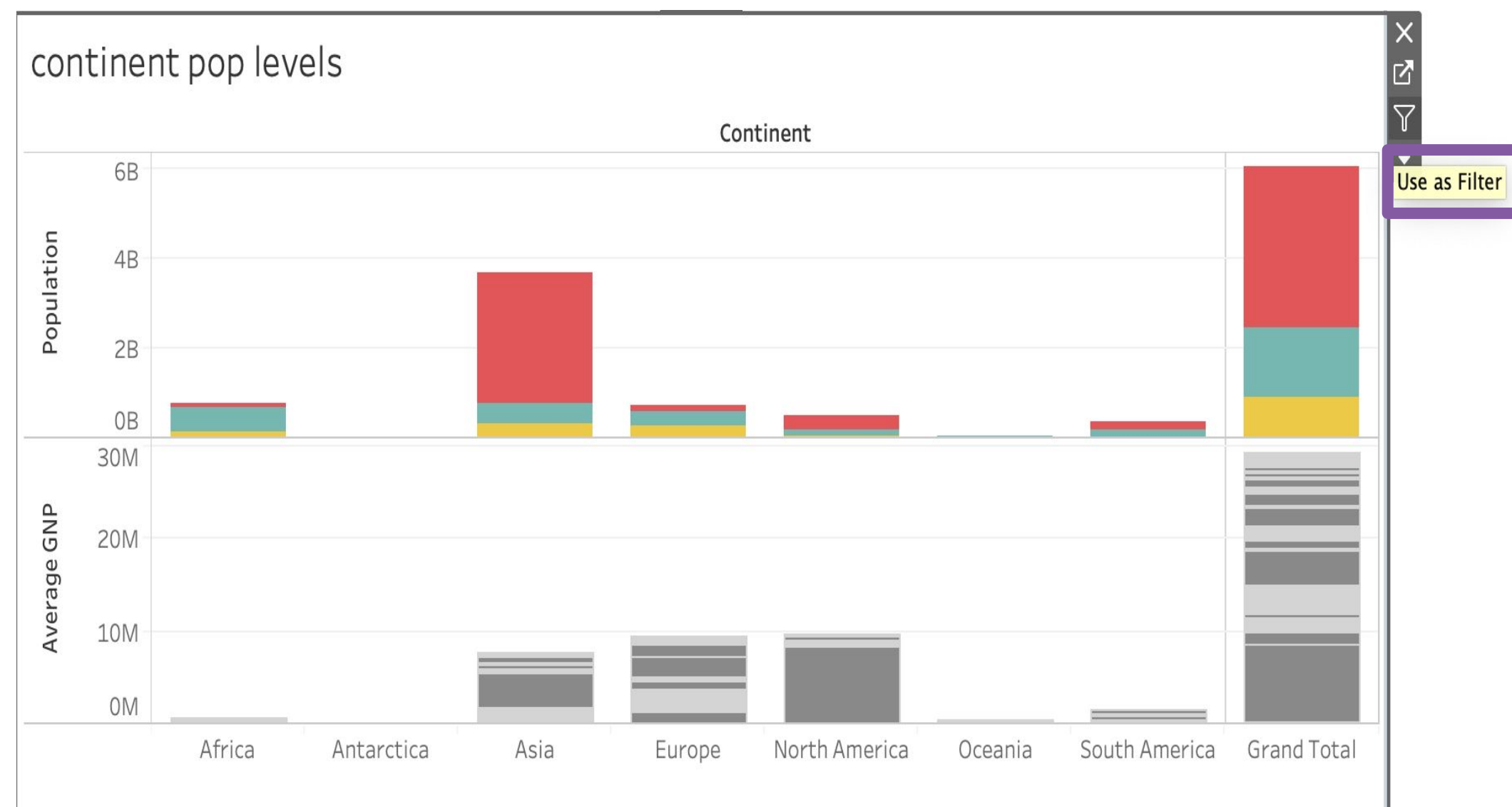
Couple filtering: option 1

- 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.



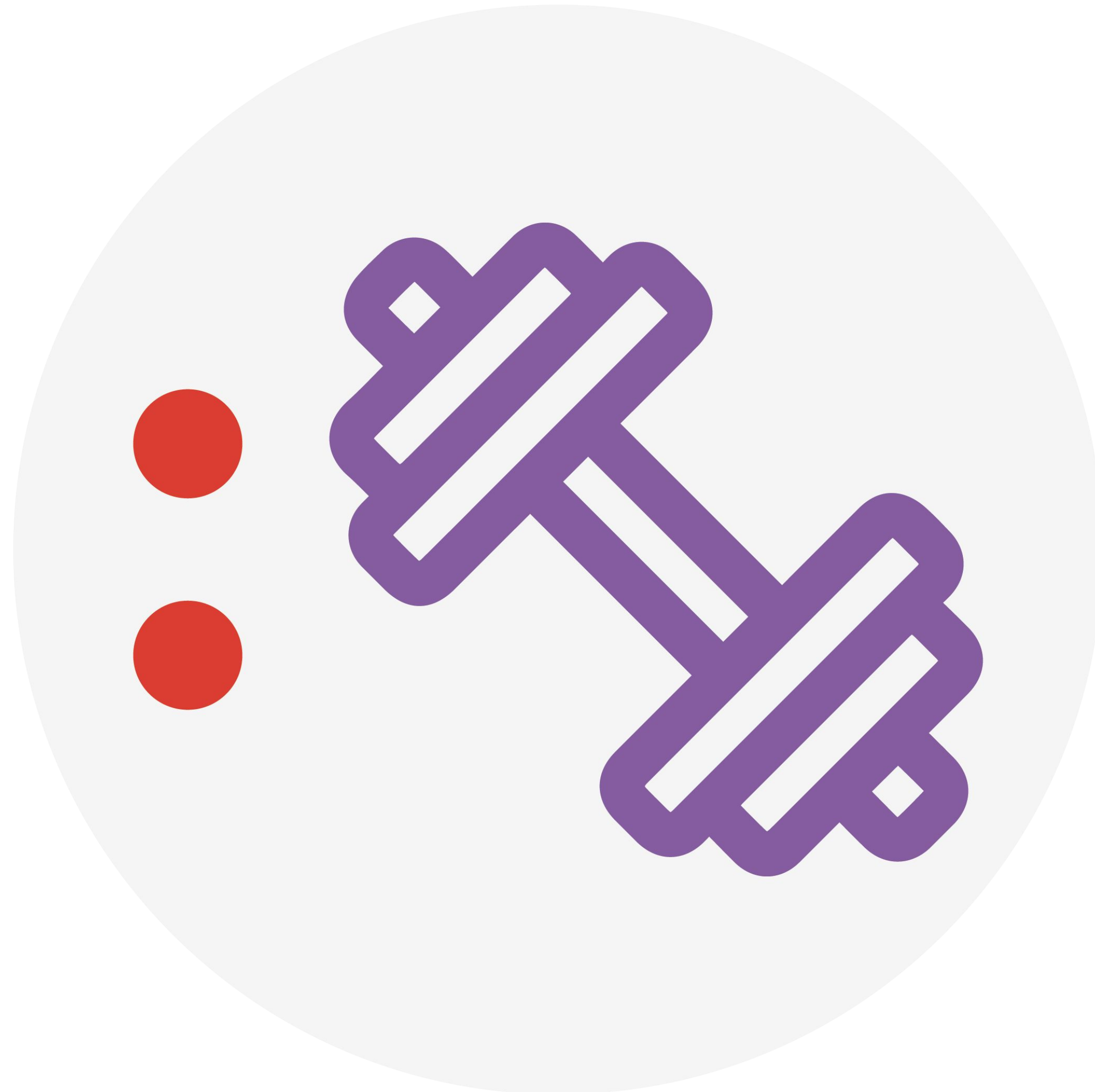
- Now if we select “**Europe**” from the pop levels chart, you can see that the years since independence chart updates, too.



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



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Congratulations!

