

# Qlik Open Data Challenge

New York City Weather and Transportation

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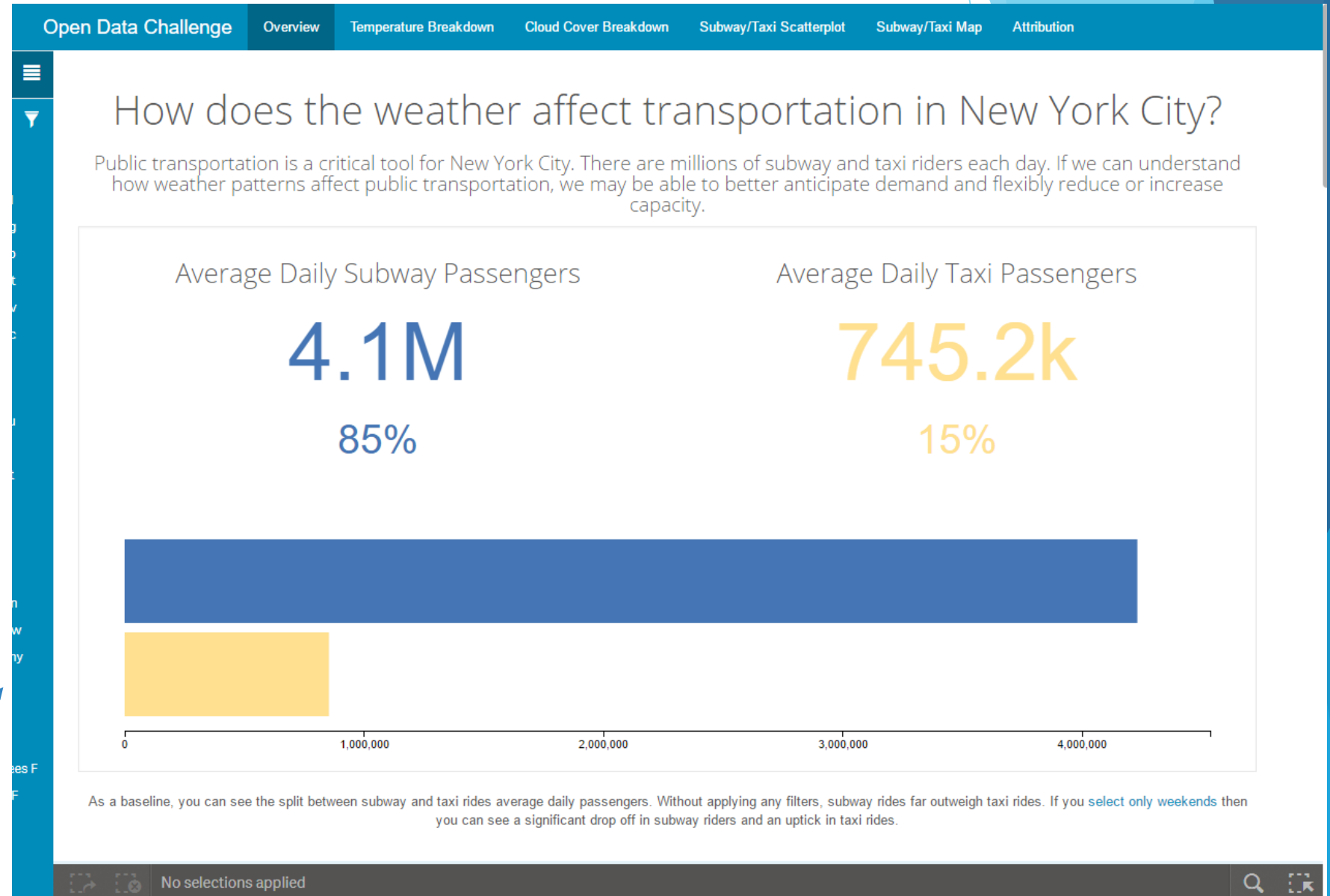
# What is this mashup about?

- ▶ Public transportation is vital to New York City and the weather has an impact on the number of passengers that use each method. If we can understand these trends, we can efficiently change supply to meet demand
- ▶ I have tried to make this site self-documenting, so you will notice commentary along the way. This document will add some context around each visualization
- ▶ Follow the installation instructions below to open the submission
  - ▶ Copy the file “KM Open Data Challenge.qvf” to  
C:\Users\%USERNAME%\Documents\Qlik\Sense\Apps
  - ▶ Copy the folder “OpenNYCData16” to  
C:\Users\%USERNAME%\Documents\Qlik\Sense\Extensions
  - ▶ Open <http://localhost:4848/extensions/OpenNYCData16/OpenNYCData16.html>

# Overview

This page sets the baseline for the split between taxis and subways. Use the filters to see how they affect the numbers.

Hover over the sidebar to expose all filters

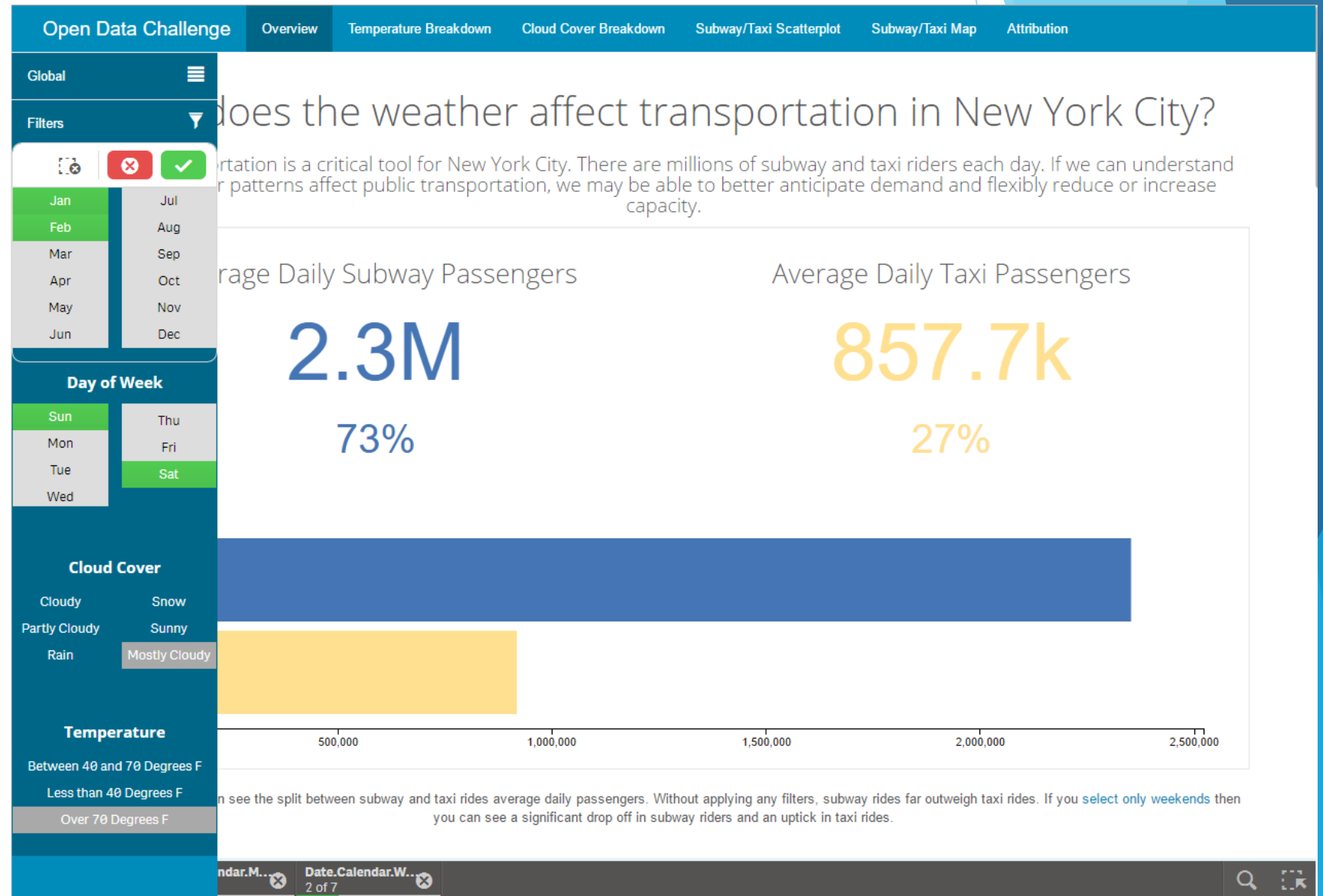


# Filtered View

Filters will update overall numbers as well as all lower numbers

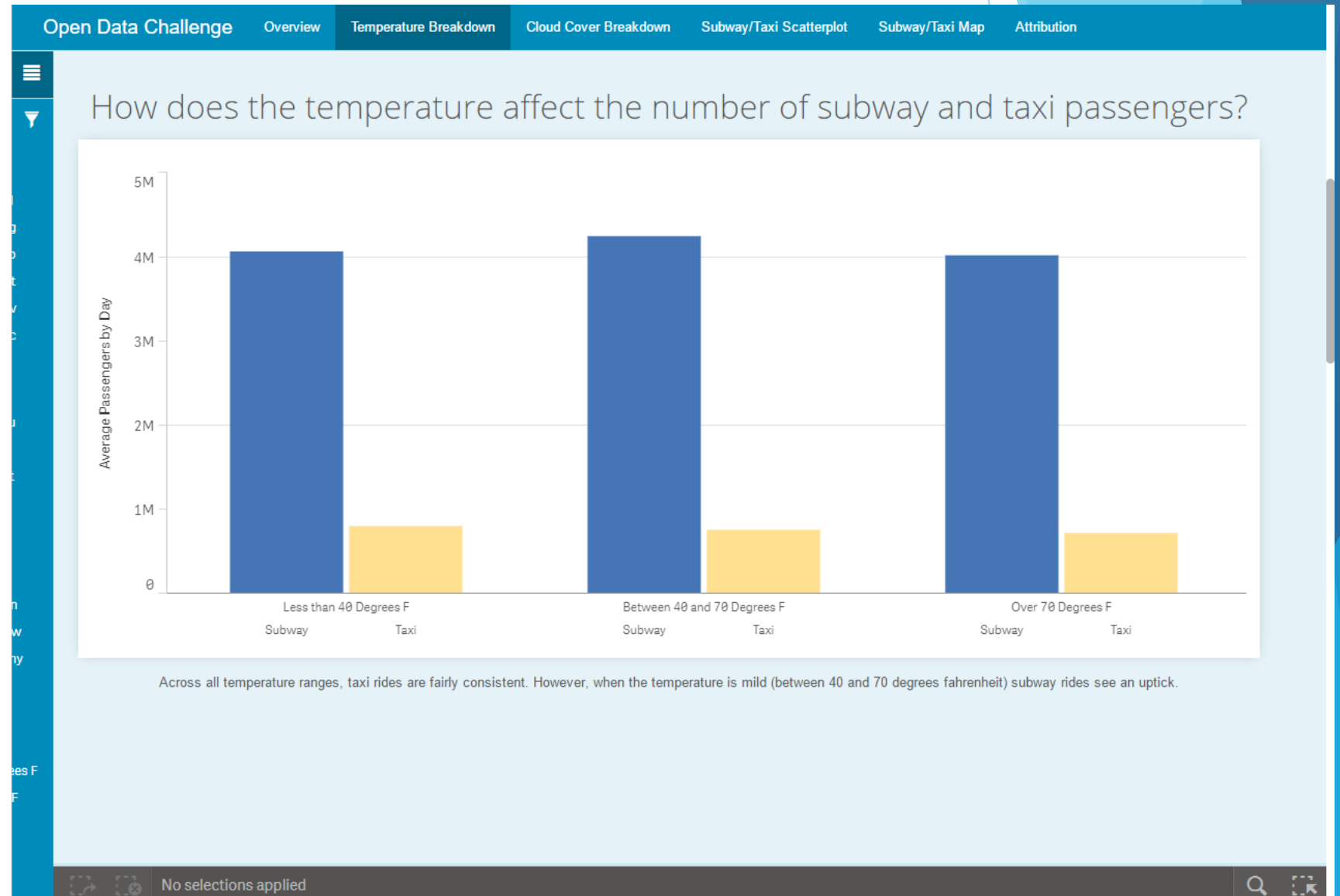
All numbers on site shown in terms of average daily value

For me, it was extremely interesting to see just how big the drop off in subway rides was on the weekends, across all months



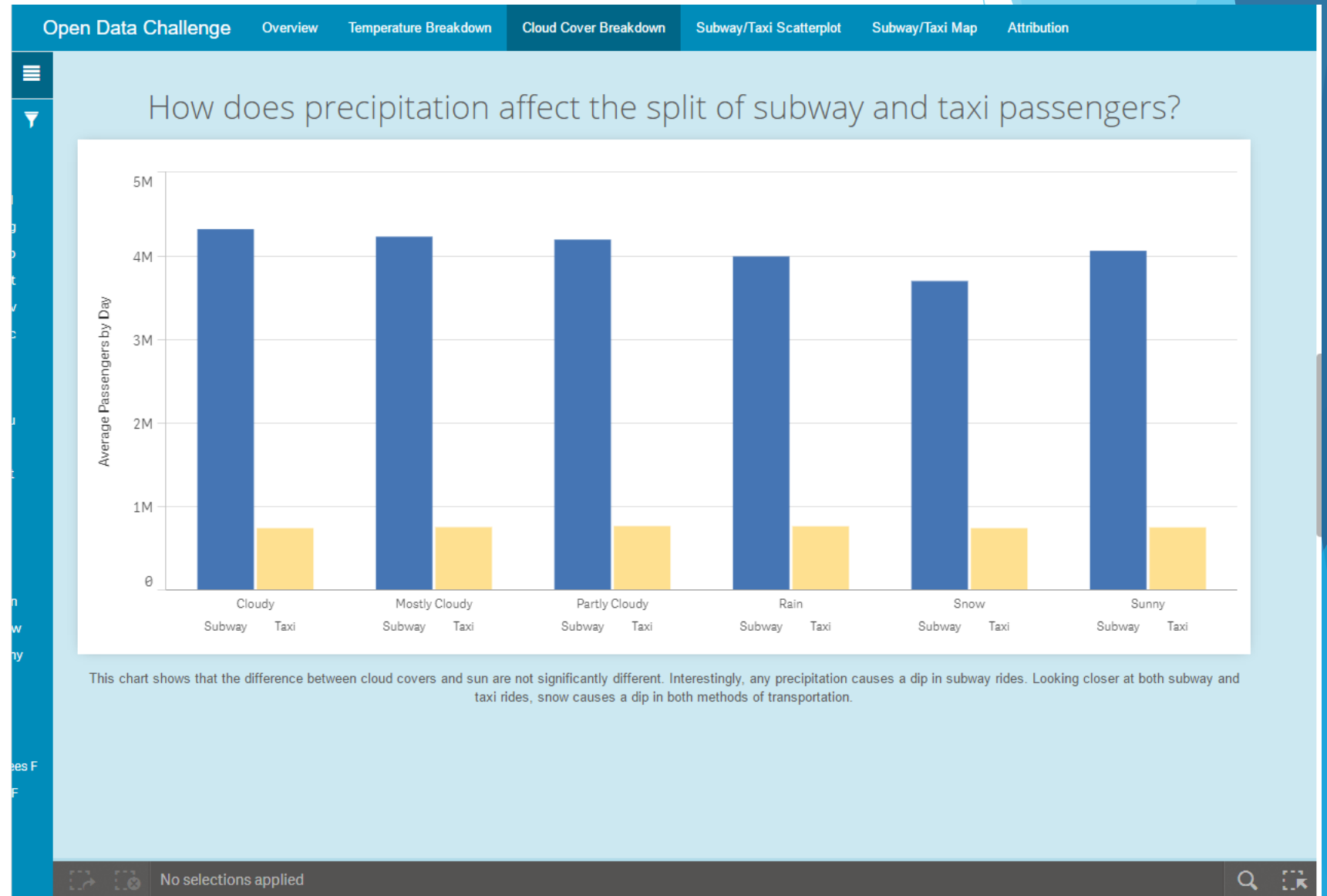
# Temperature View

This chart shows how each method is affected by the temperature



# Cloud Cover View

The methods of transportation here are broken out by various types of weather



# Subway/Taxi Scatterplot

The scatterplot shows individual days and how dates are clustered based on weather type or temperature

Click a bubble to filter for that day or hover to see more information

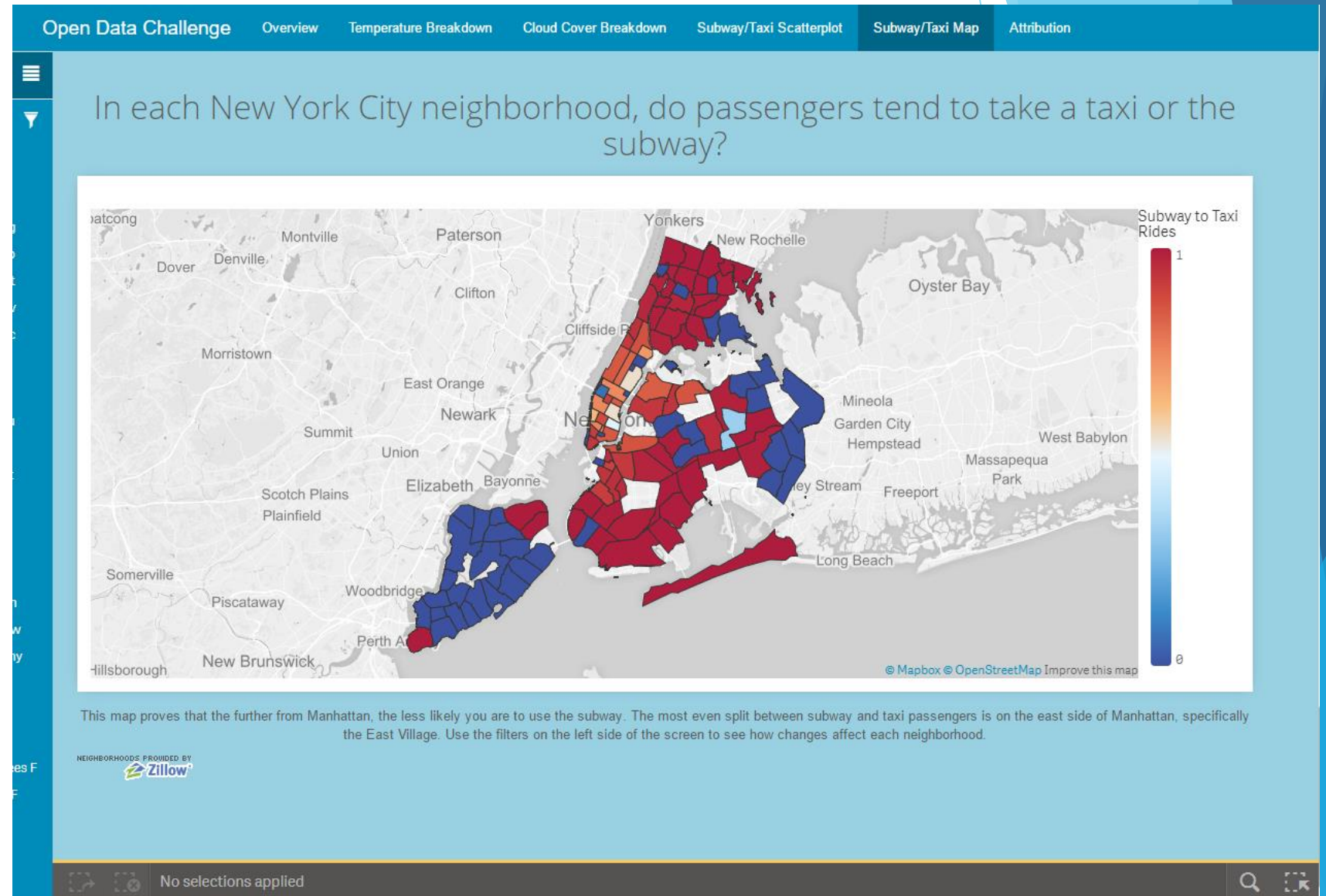
Use the buttons to change the dimension used to change the colors on the chart



# Subway/Taxi Map

This map shows how each neighborhood differs in their preferred method of transportation

The filters on the left are very interesting on this particular visualization to see how different options affect neighborhoods differently





# Data Sources

- ▶ Weather Data: Qlik Data Market
- ▶ Taxi Data: NYC Open Data/NYC.gov
  - ▶ <https://data.cityofnewyork.us/view/ba8s-jw6u>
  - ▶ <https://data.cityofnewyork.us/view/n4kn-dy2y>
  - ▶ [http://www.nyc.gov/html/tlc/html/about/trip\\_record\\_data.shtml](http://www.nyc.gov/html/tlc/html/about/trip_record_data.shtml)
- ▶ Subway Data: NYC Open Data/MTA
  - ▶ Portal: <https://data.cityofnewyork.us/Transportation/MTA-Data/mmu8-8w8b>
  - ▶ Turnstiles: <http://web.mta.info/developers/turnstile.html>
  - ▶ Station Info:  
[http://web.mta.info/developers/data/nyct/subway/google\\_transit.zip](http://web.mta.info/developers/data/nyct/subway/google_transit.zip)
- ▶ Map of NYC Neighborhoods: Zillow
  - ▶ <http://www.zillow.com/howto/api/neighborhood-boundaries.htm>

# Technologies Used

- ▶ Qlik Sense, Mashups
- ▶ D3.js
- ▶ jQuery
- ▶ Bootswatch
  - ▶ <http://bootswatch.com/>
- ▶ startbootstrap-simple-sidebar
  - ▶ <http://startbootstrap.com/template-overviews/simple-sidebar/>