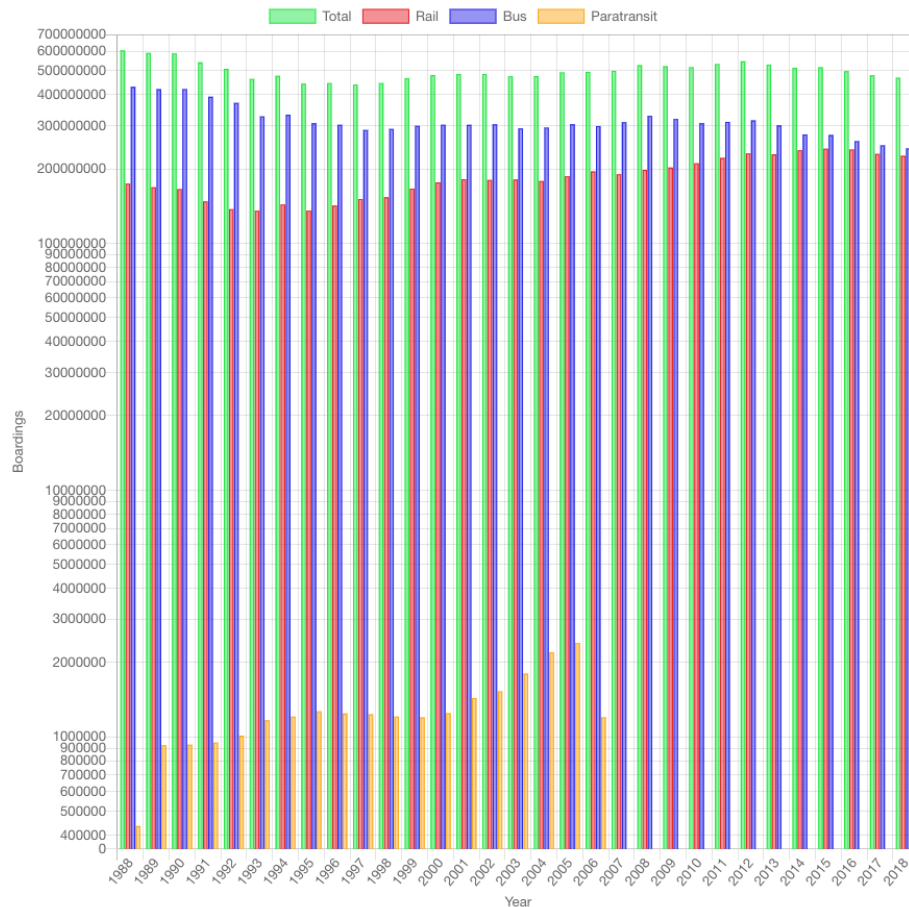# Chicago Transit Authority Ridership Visualization

We are going to build a visualization of annual ridership totals dating to the mid-1980s.

Requirements

- The chart should be a bar chart.
- The data should be obtained from the Chicago OpenData website via an AJAX call. https://data.cityofchicago.org/Transportation/CTA-Ridership-Annual-Boarding-Totals/w8km-9pzd
- The X axis should be years in ascending order starting from the left.

- The Y axis should be the amount of boardings for a particular transportation type.
- The axes should be labeled with accurate labels.
- The datasets presented on the graph should have proper labels in the chart legend.
- There should be 4 datasets displayed on the chart:
  - Total ridership
  - Bus ridership
  - Paratransit ridership
  - Rail ridership
- Each dataset should have its own distinct color e.g. the "Total" bars should be of a different color than the "Rail" bars to make them distinguishable on the chart.
- The Y axis should be a logarithmic scale so the paratransit bars don't appear as tiny slivers compared to the rest of the totals.
- The Y logarithmic scale axis should display the numbers in standard decimal form instead of scientific e notation. (e.g. instead of 5e+5 it should display 500000)

Submission Instructions

The project files should be in a ZIP file named **LastnameFirstname-HW4.zip**

How to Complete

Read the quick start guide for the [Chart.js](#) library and set it up a basic example chart on a webpage. It does not have to be a React app for this assignment as long as the submission ZIP file has a HTML file I can double click on to view a working page.

First set up a bar chart with dummy data and multiple datasets. Assign each data set its own color, and experiment with settings for the [axes](#) and their [labels](#).

Go to Chicago's OpenData website to retrieve this particular dataset: https://data.cityofchicago.org/Transportation/CTA-Ridership-Annual-Boarding-Totals/w8km-9pzd

Experiment in getting the dataset using a GET request using Postman like in previous assignments.

Create an AJAX call using `fetch()` and process the results into the lists necessary to construct your bar chart. The map function will be your best friend here.