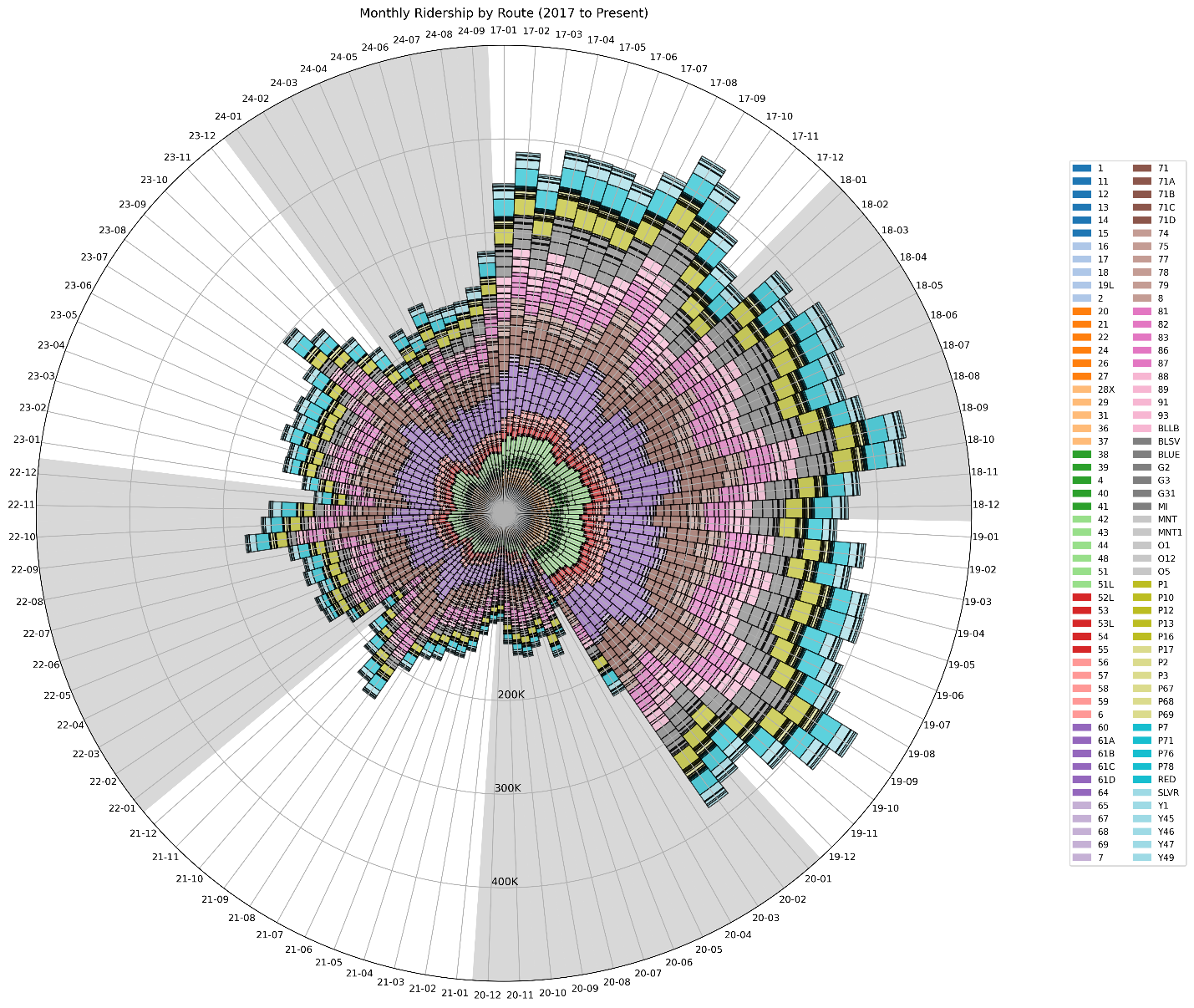
**Pittsburgh Bus Utilization**

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This project visualizes the ridership and route utilization of PRT busses from 2017 to the present.



Legend:

* The outer circle denotes the month, going clockwise from Jan 2017 to Oct 2024
* Each large pie slide represents the total year, and the small increments represent the month
* The length of the bar is the total monthly ridership
* Each bar is divided into the individual routes by color
* The bar color groupings generally align with the various routes and make it easier to see
* The radii of the circle denotes the total ridership in intervals of 100,000

Findings:

* I thought it would be interesting to visualize the effects of Covid-19 on ridership.
* I also live in the city and ride the bus occasionally and wanted to see route variations.
* The graph shows how much the ridership dropped during the pandemic, starting March 2021.
* The graph also shows how the ridership has only recovered to approximately 65% of pre-pandemic levels.
* It’s also interesting to see how ridership spikes in August and September when school starts.
* Data was manipulated in Pandas based off a previous data analysis class I did in undergrad, and the design was tweaked by GPT-4o to look better.

Data: The dataset is the Western PA Regional Data Center Pittsburgh Regional Transit Monthly Average Ridership by Route, available here: <https://data.wprdc.org/dataset/prt-monthly-average-ridership-by-route>.

The data consists of 22,318 lines. The columns in the data are as follows: \_id, route, ridership\_route\_code, route\_full\_name, current\_garage, mode, month\_start, year\_month, day\_type, avg\_riders, day\_count

Significance:

Github: <https://github.com/erl67/InfoVizProject>