



## BUILDING DASHBOARDS WITH FLEXDASHBOARD

# Graphs

Elaine McVey

Director of Quantitative Mobility  
TransLoc



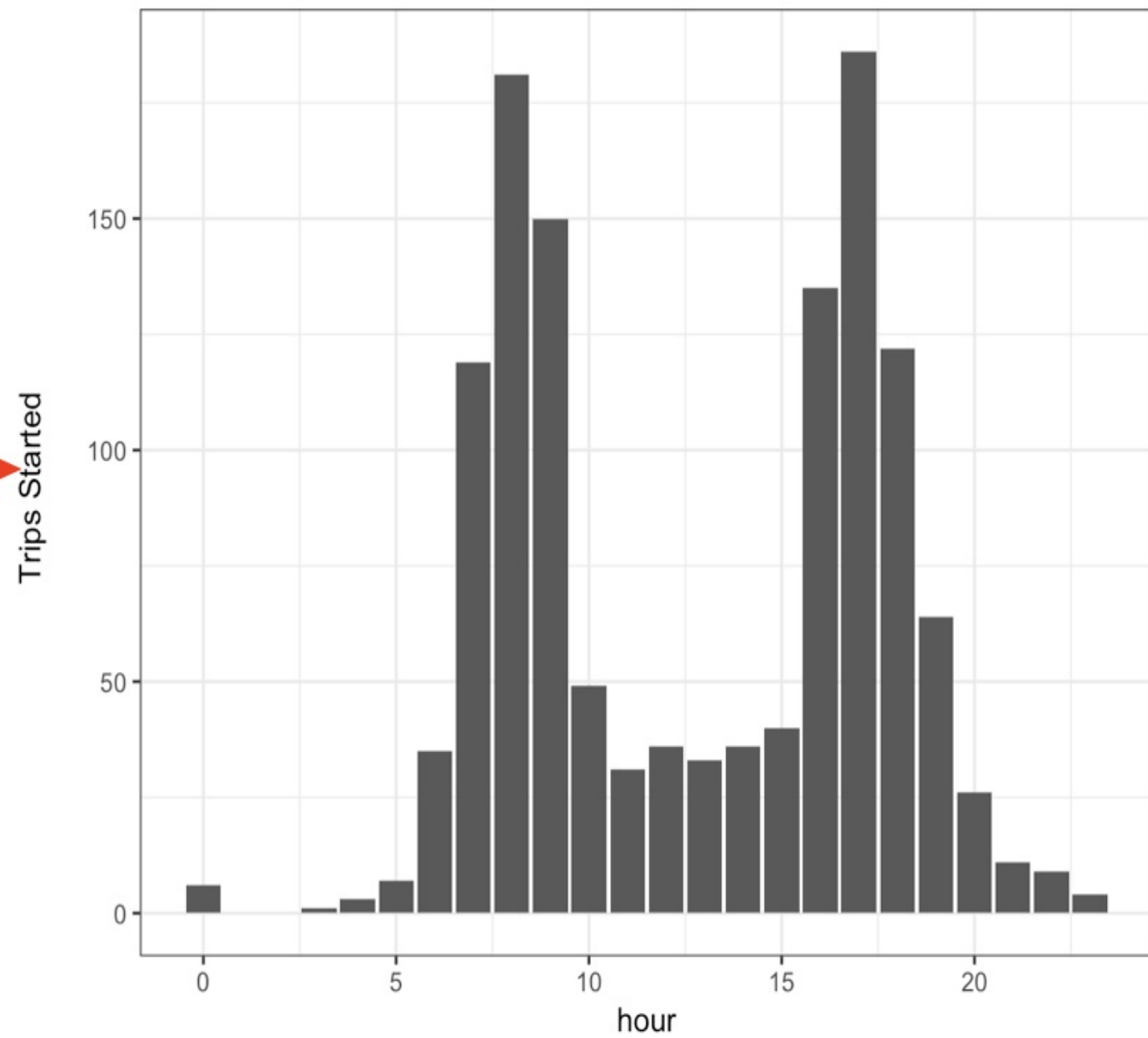
# Adding Graphs: The Basics

```
### My Graph Chart
```

```
` `{r}  
plot(trips_df$time, trips_df$rides)  
` }
```



Trips by Start Time



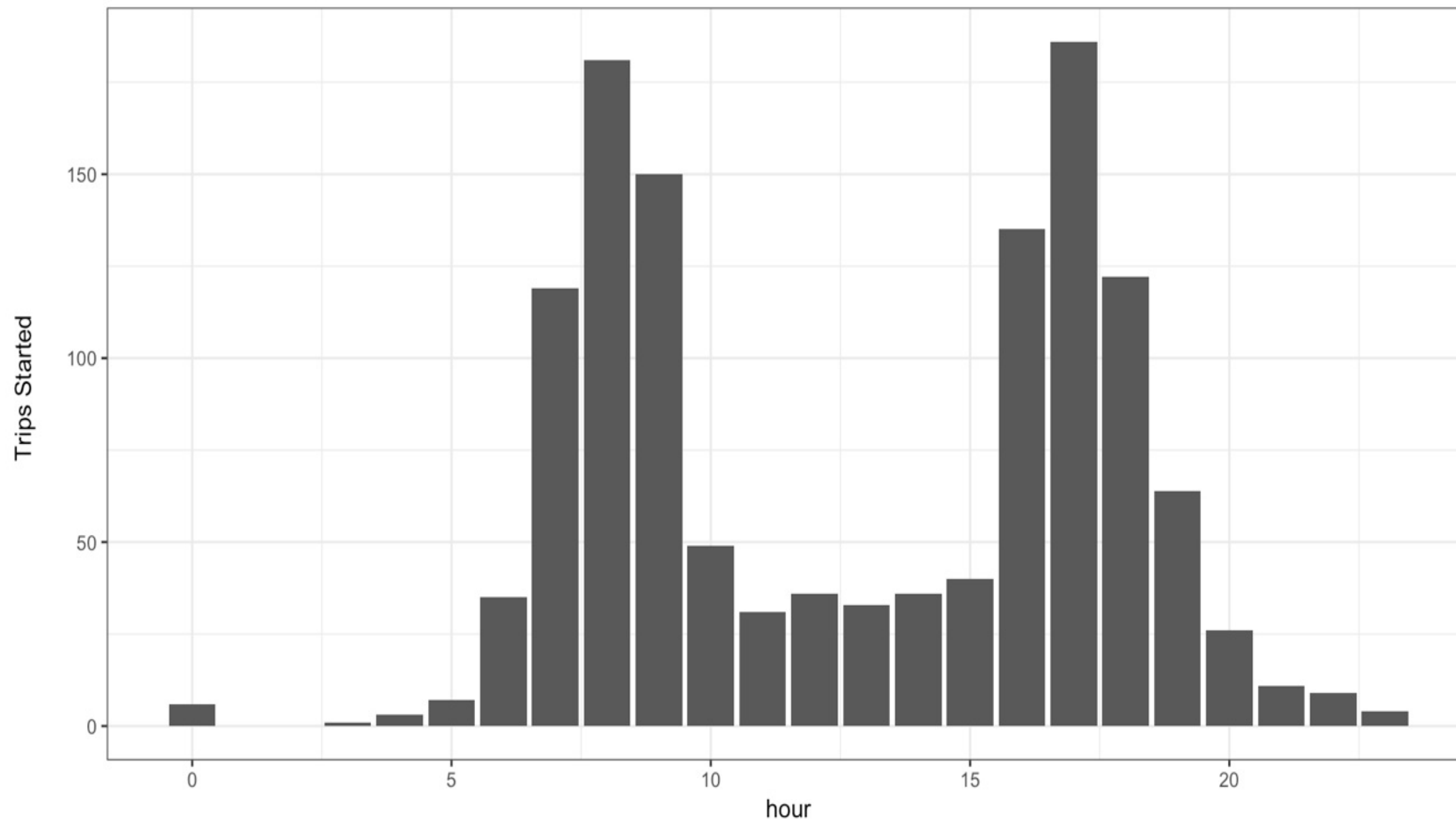


# Resizing Graphs

```
{r, fig.width=10, fig.height=5}
```



Trips by Start Time





## BUILDING DASHBOARDS WITH FLEXDASHBOARD

**Let's practice!**



BUILDING DASHBOARDS WITH FLEXDASHBOARD

# Web-friendly visualizations

Elaine McVey

Director of Quantitative Mobility  
TransLoc



# What is web-friendly?

- Dynamic
- Interactive
- Based on html/javascript





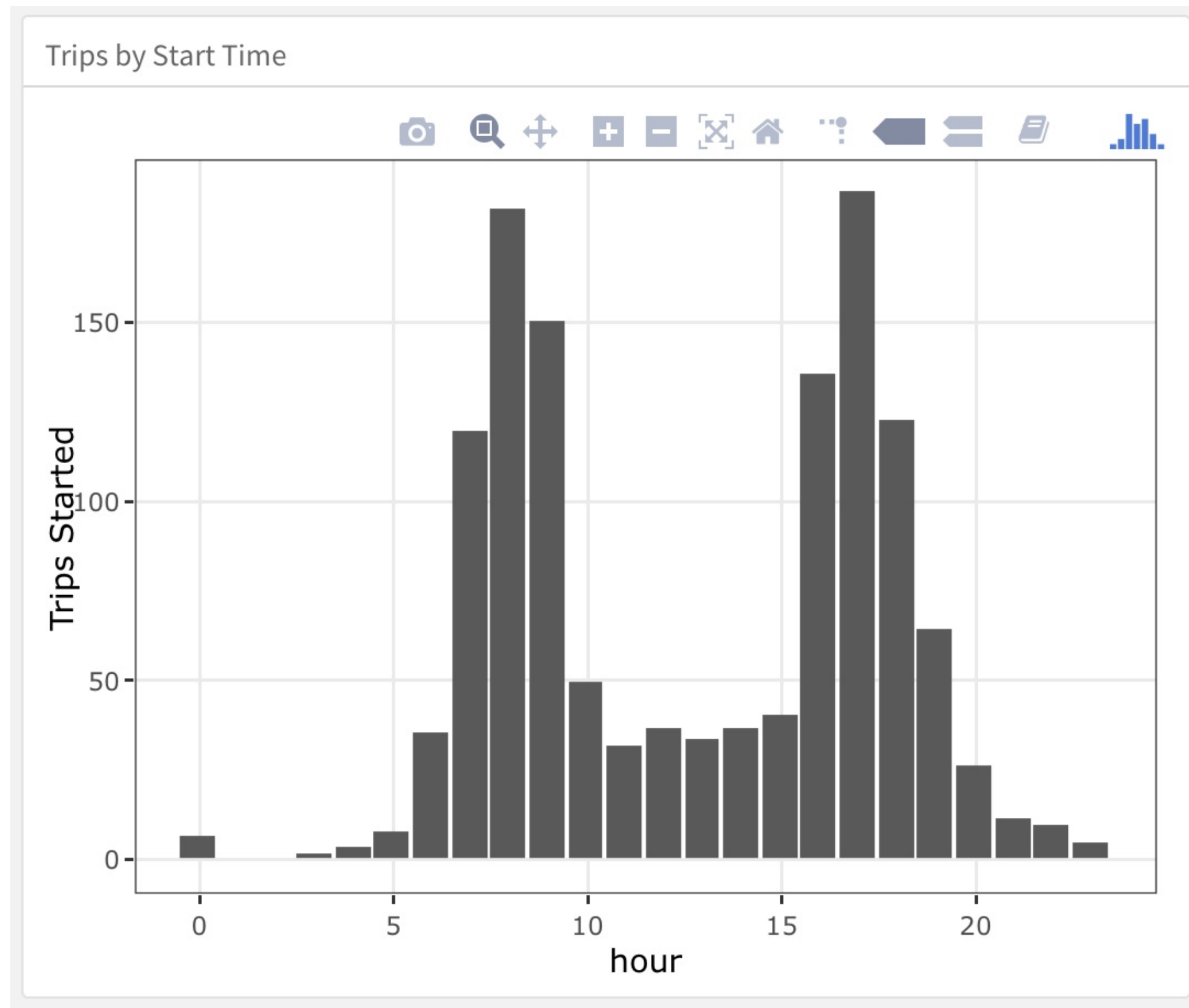
# Web-friendly options

- **plotly**
- highcharter
- dygraphs
- rbokeh
- ggvis



# The magic of plotly

```
library(plotly)  
ggplotly(my_ggplot)
```





## BUILDING DASHBOARDS WITH FLEXDASHBOARD

**Let's practice!**



## BUILDING DASHBOARDS WITH FLEXDASHBOARD

# htmlwidgets

Elaine McVey

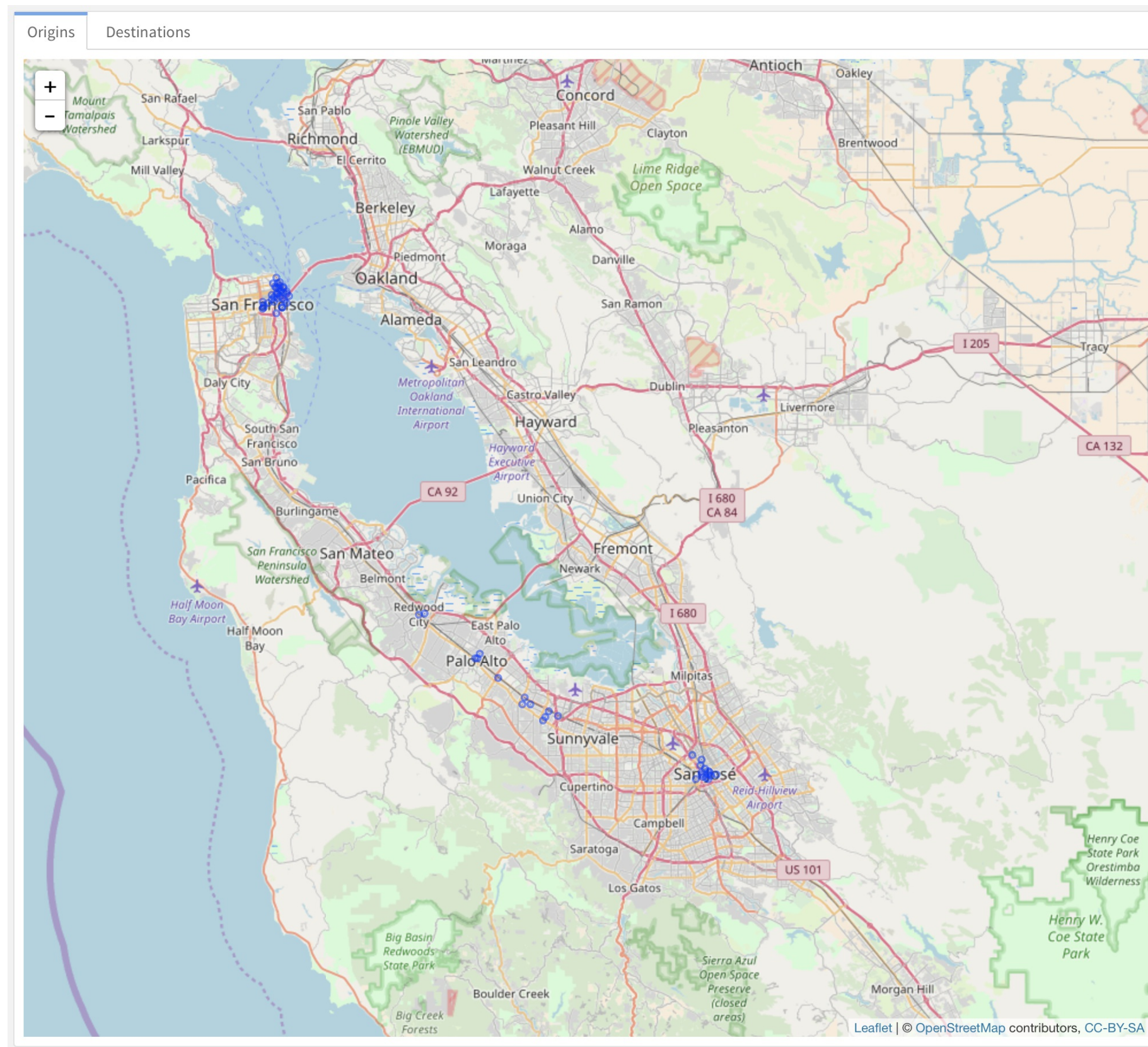
Director of Quantitative Mobility  
TransLoc



# What's an htmlwidget?

- R packages that connect to Javascript libraries.
- Web-friendly visualizations of all sorts.
- Well suited to be part of a dashboard.

Learn more at: <http://htmlwidgets.org>





# leaflet Basics

```
library(leaflet)

leaflet() %>%
  addTiles() %>%
  addMarkers(lng = data_df$longitude, lat = data_df$latitude)
```





# leaflet with Dataframes

```
library(leaflet)
```

```
leaflet(data_df) %>%  
  addTiles() %>%  
  addMarkers()
```



## BUILDING DASHBOARDS WITH FLEXDASHBOARD

**Let's practice!**