

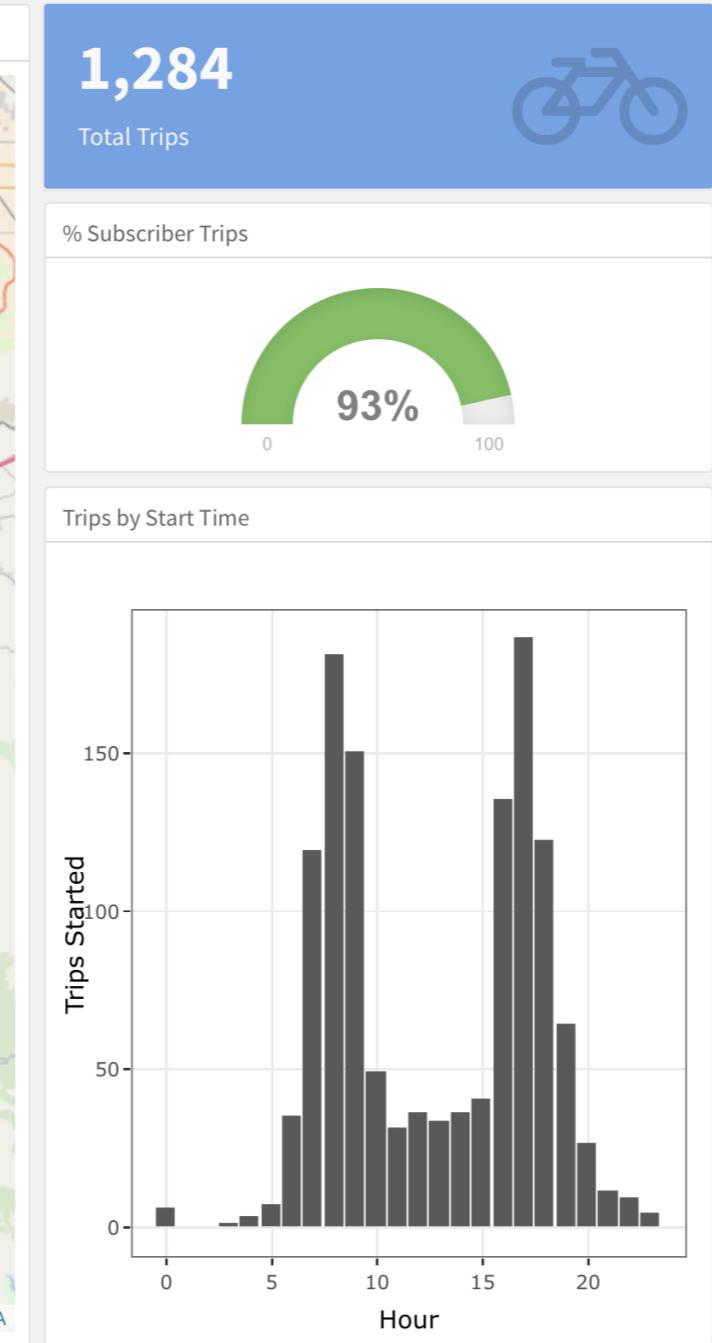
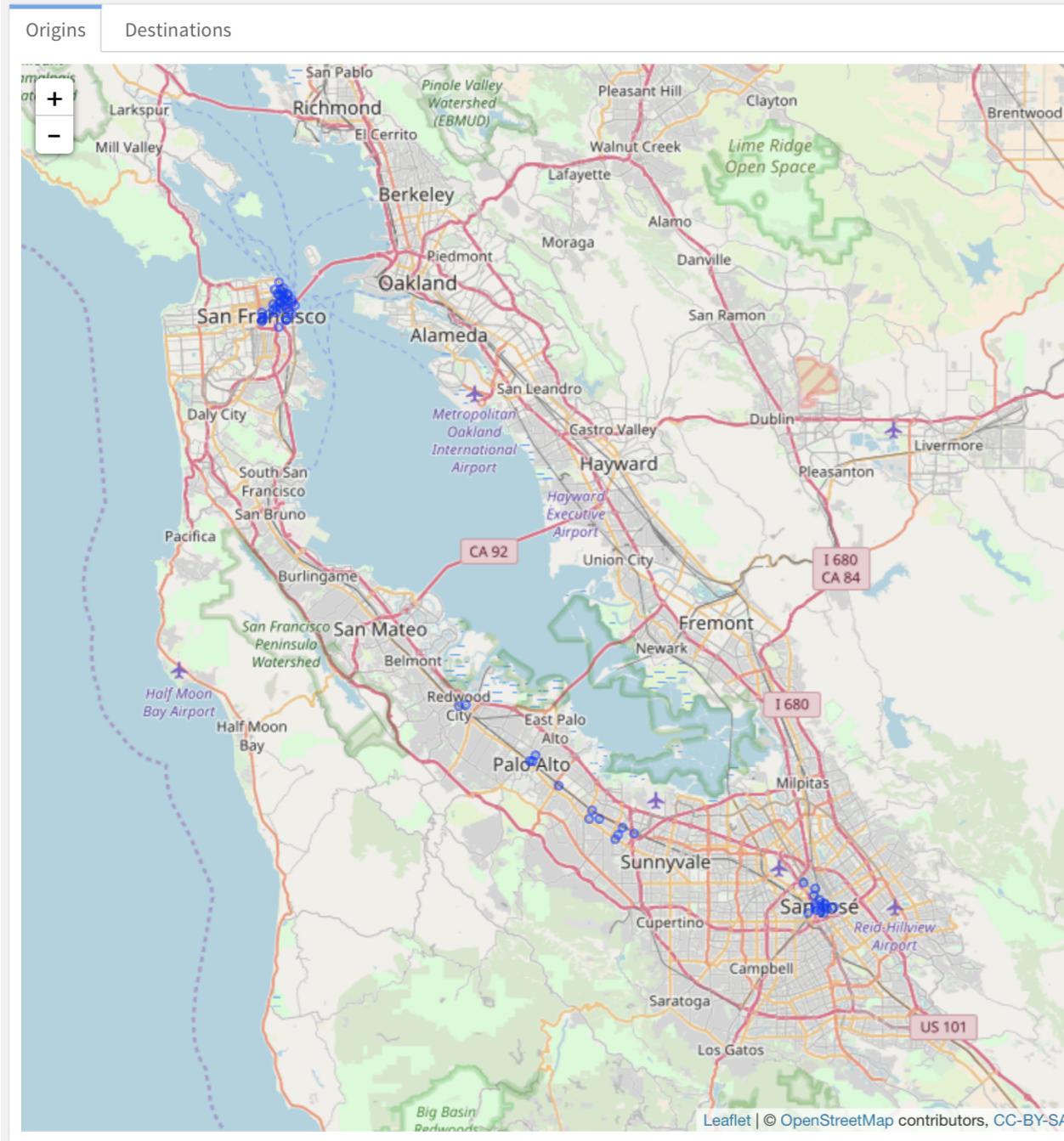
Highlighting single values

BUILDING DASHBOARDS WITH FLEXDASHBOARD



Elaine McVey

Director of Data Science



```
### Total Trips
```

```
```{r}  
num_trips <- nrow(trips_df)

valueBox(num_trips)

```
```

1284

Total Trips

```
### Total Trips
```

```
```{r}  
num_trips <- nrow(trips_df)

valueBox(num_trips,
 caption = 'Total Daily Trips',
 icon = 'fa-bicycle')

```
```

1284

Total Daily Trips



```
### Total Trips
```

```
```{r}  
num_trips <- nrow(trips_df)

valueBox(prettyNum(num_trips, big.mark = ','),
 caption = 'Total Daily Trips',
 icon = 'fa-bicycle')

```
```

1,284

Total Daily Trips



Gauges

```
gauge(value = pct_subscriber_trips,  
       min = 0,  
       max = 100)  
  
gauge(value = pct_subscriber_trips,  
       min = 0,  
       max = 100,  
       sectors = gaugeSectors(  
           success = c(90, 100),  
           warning = c(70, 89),  
           danger = c(0, 69)  
       ),  
       symbol = '%')
```

Links

```
valueBox(prettyNum(num_trips, big.mark = ','),
          caption = 'Total Daily Trips',
          icon = 'fa-bicycle',
          href = '#trip-raw-data')
```

Let's practice!

BUILDING DASHBOARDS WITH FLEXDASHBOARD

Dashboard Tables

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Basic tables

```
library(knitr)
```

```
kable(my_data_df)
```

Web-friendly tables

`library(DT)`

```
datatable(my_data_df)
```

Eliminating row numbering

```
library(DT)
```

```
datatable(my_data_df, rownames = FALSE)
```

Changing rows per page

`library(DT)`

```
datatable(my_data_df, rownames = FALSE,  
         options = list(pageLength = 15))
```

Adding buttons

```
library(DT)

datatable(
  my_data_df, rownames = FALSE,
  extensions = 'Buttons', options = list(
    dom = 'Bfrtip',
    buttons = c('copy', 'csv', 'excel', 'pdf', 'print')
  )
)
```

More information on DT

<https://rstudio.github.io/DT/>

Let's practice!

BUILDING DASHBOARDS WITH FLEXDASHBOARD

Text for Dashboards

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Captions

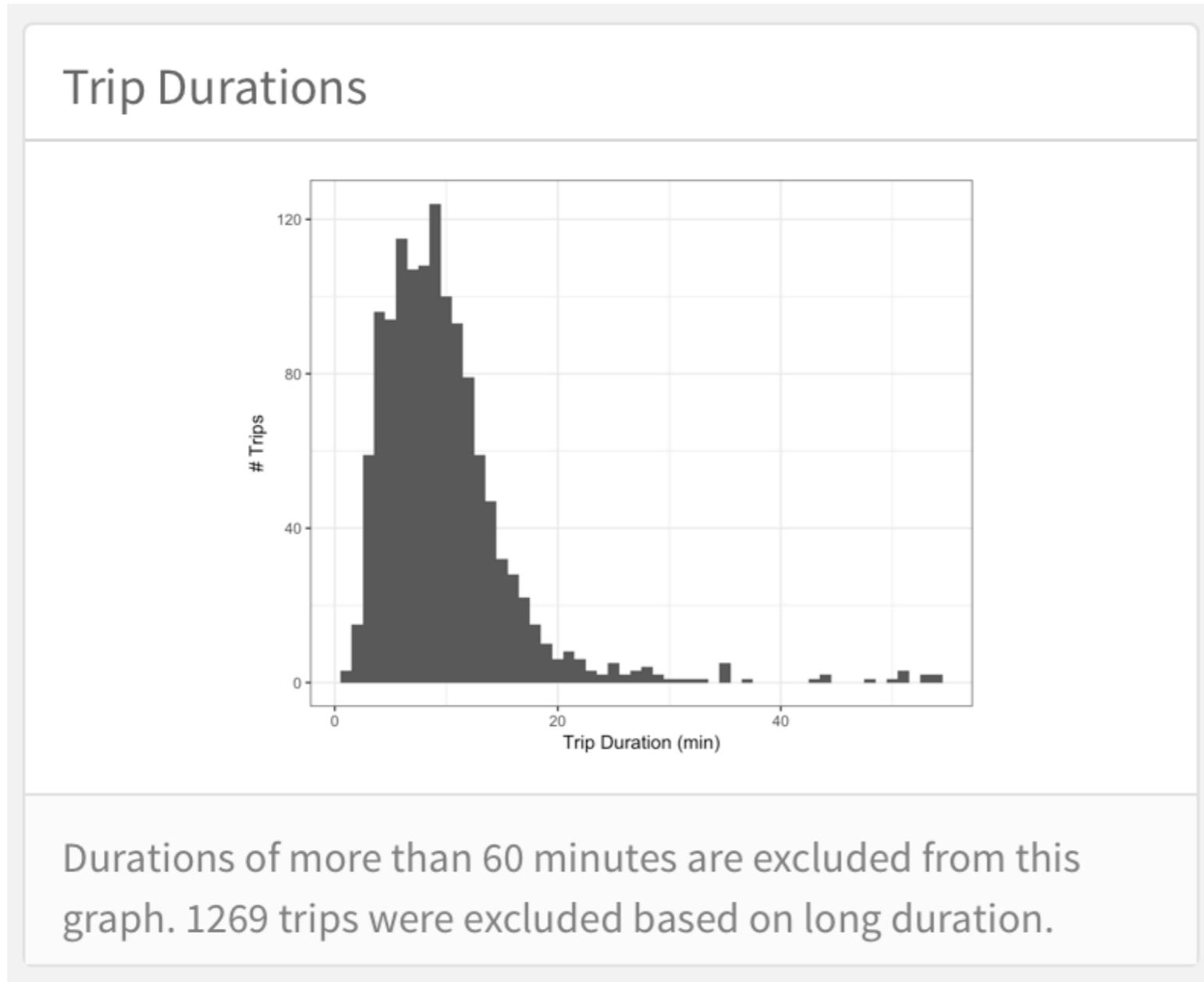
```
### Trip Durations  
  
```{r}  
trip_durations_graph
```
```

> Durations of more than 60 minutes are excluded from this graph.

Captions with inline code

```
### Trip Durations  
`{r}  
trip_durations_graph  
'  
  
> Durations of more than 60 minutes are excluded from this graph.  
'r num_long_trips` trips were excluded based on long duration.
```

Captions with inline code



Storyboards

Bike Shares Daily

Where do bike share trips start?

What time do people start their bike share trips?

How long do bikeshare trips take from start to destination station?

The most common trip origin is the San Francisco Caltrain (Townsend at 4th) station.

Converting to a Storyboard

```
title: "Bike Shares Daily"  
output:  
  flexdashboard::flex_dashboard:  
    orientation: columns  
    vertical_layout: fill  
    storyboard: true
```

Creating the story

```
title: "Bike Shares Daily"  
output:  
  flexdashboard::flex_dashboard:  
    orientation: columns  
    vertical_layout: fill  
    storyboard: true
```

```
### Where do bike share trips start?
```

```
```{r}  
...
```
```

```
### What time do people start their bike share trips?
```

```
```{r}  
...
```
```

Adding Storyboard commentary

```
---
```

```
title: "Bike Shares Daily"
output:
  flexdashboard::flex_dashboard:
    orientation: columns
    vertical_layout: fill
    storyboard: true
---
```

```
### Where do bike share trips start?
```

```
```{r}
```

```
...
```

```

```

Origins and destinations are all station locations.

```
What time do people start their bike share trips?
```

```
```{r}
```

```
...
```

Mixing Storyboards In

```
Origin Destination Pairs {.storyboard}
```

```
=====  
### O/D Flow
```

```
```{r}  
...
```
```

```
### Trips by Station
```

```
```{r}  
...
```
```

```
Trip Raw Data
```

```
=====  
### Trip-Level Data
```

```
```{r}
```

# **Let's practice!**

**BUILDING DASHBOARDS WITH FLEXDASHBOARD**