



BUILDING DASHBOARDS WITH FLEXDASHBOARD

# Highlighting Single Values

Elaine McVey

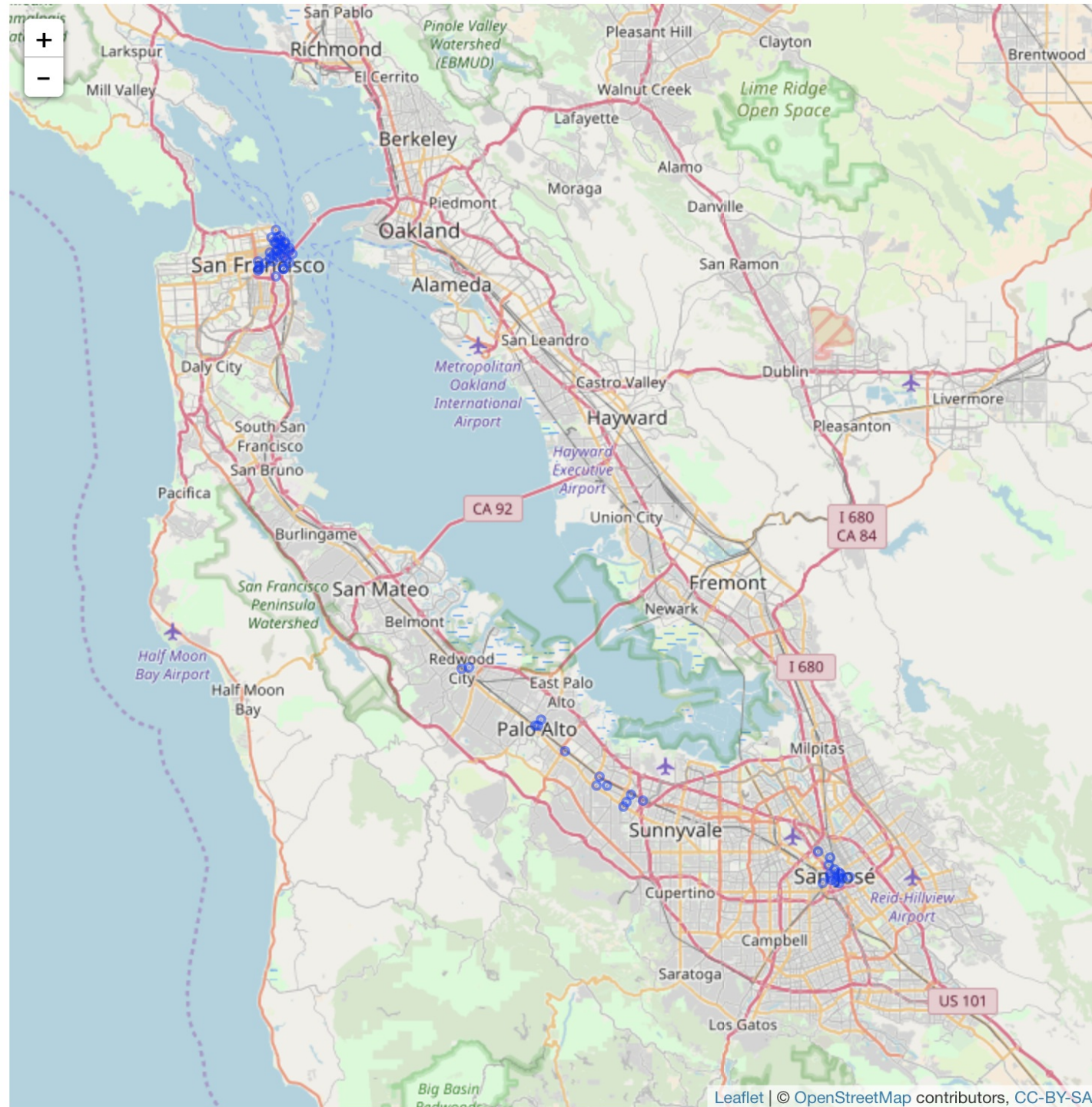
Director of Quantitative Mobility  
TransLoc



Bike Shares Daily Overview Origin Destination Pairs Station Analysis Data ▾

Origins

Destinations

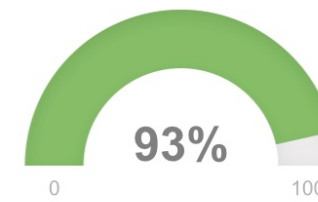


1,284

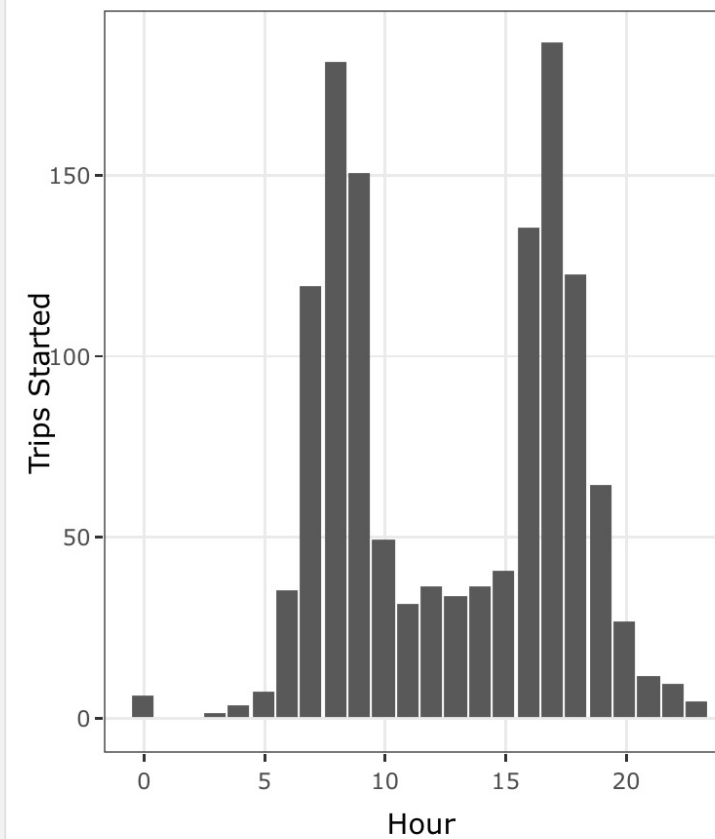
Total Trips



% Subscriber Trips



Trips by Start Time





```
### Total Trips
```

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

1284

Total Trips

```
### Total Trips
```

```
`r`{r}  
num_trips <- nrow(trips_df)  
valueBox(num_trips,  
  caption = 'Total Daily Trips',  
  icon = 'fa-bicycle')  
`r`
```

1284

Total Daily Trips



```
### Total Trips
```

```
`r`{r}  
num_trips <- nrow(trips_df)  
valueBox(prettyNum(num_trips, big.mark = ','),  
  caption = 'Total Daily Trips',  
  icon = 'fa-bicycle')  
`r`
```

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')
```



## BUILDING DASHBOARDS WITH FLEXDASHBOARD

**Let's practice!**



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# 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/>



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# 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.
```





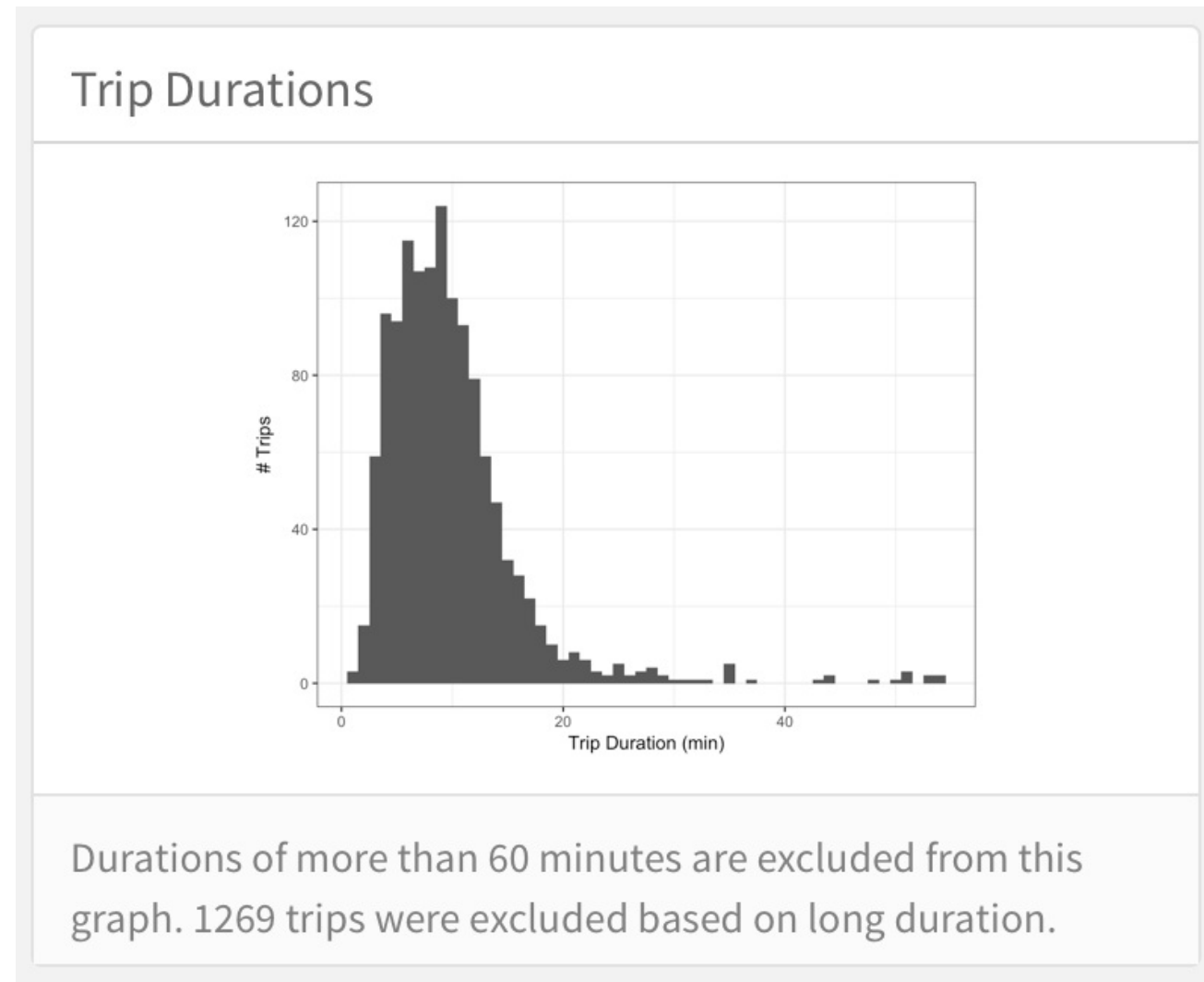
# Captions with Inline Code

```
### Trip Durations
```

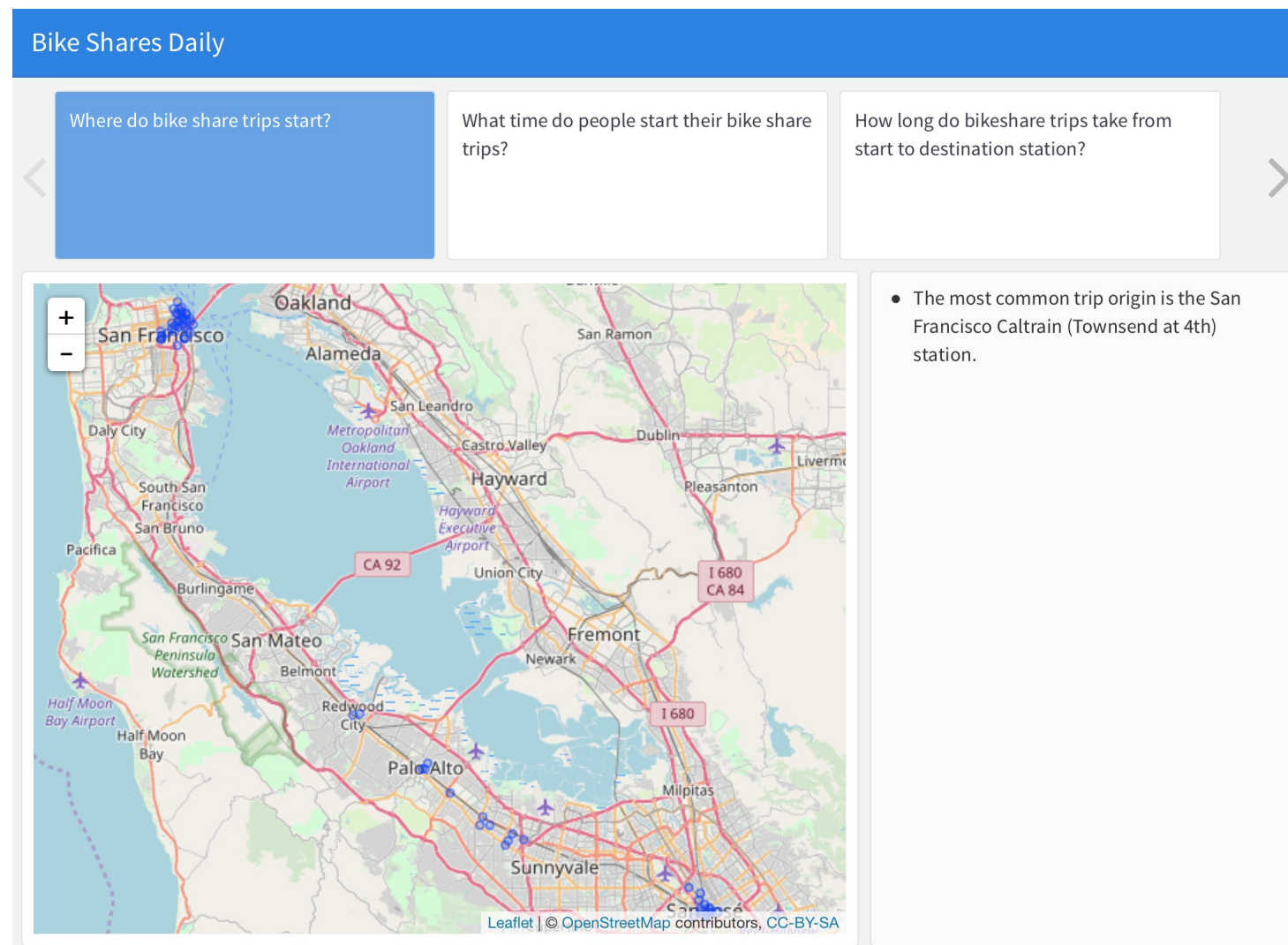
```
`r`{r}  
trip_durations_graph  
`r`
```

```
> 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





# 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}
```



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