

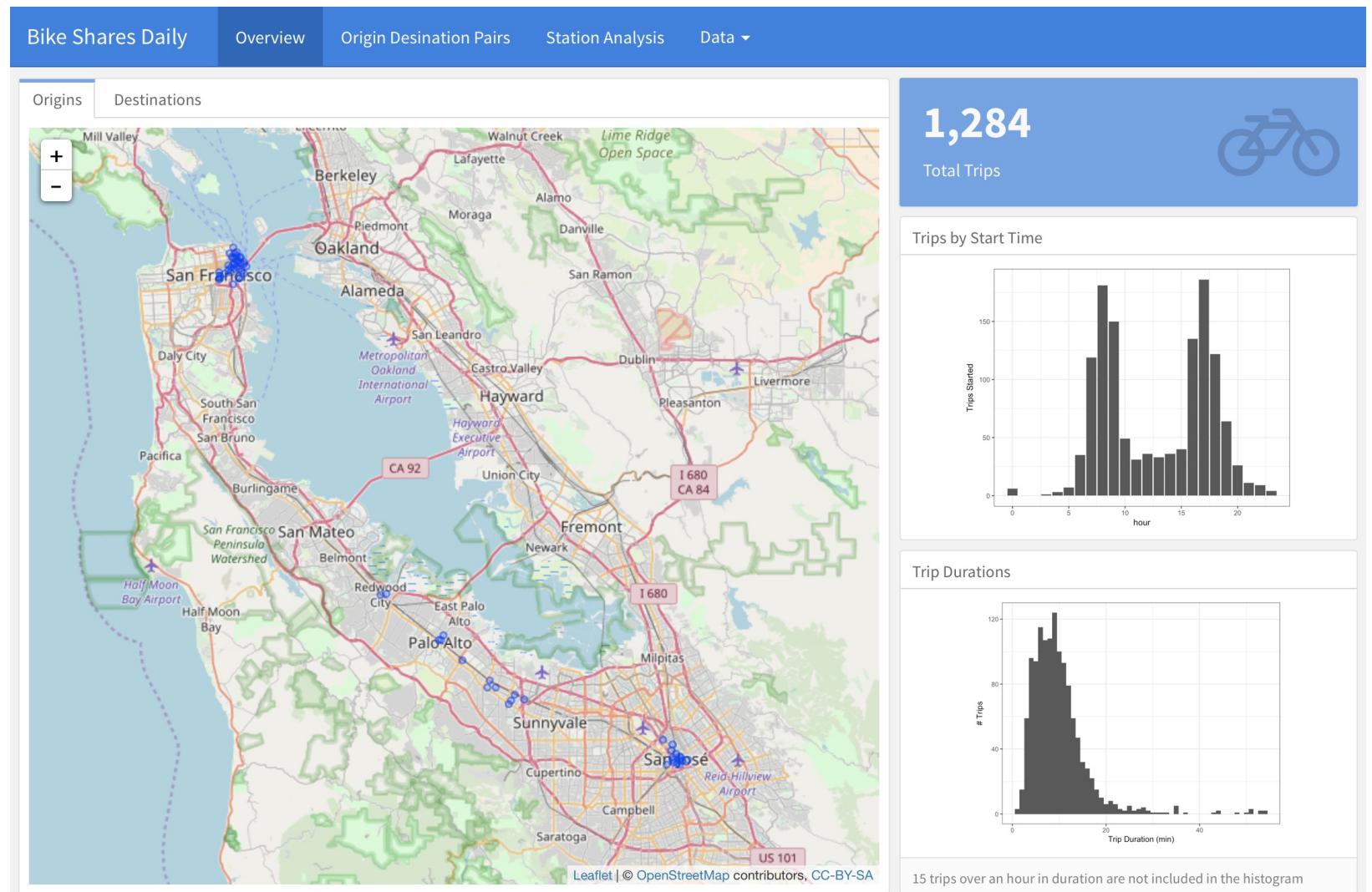


BUILDING DASHBOARDS WITH FLEXDASHBOARD

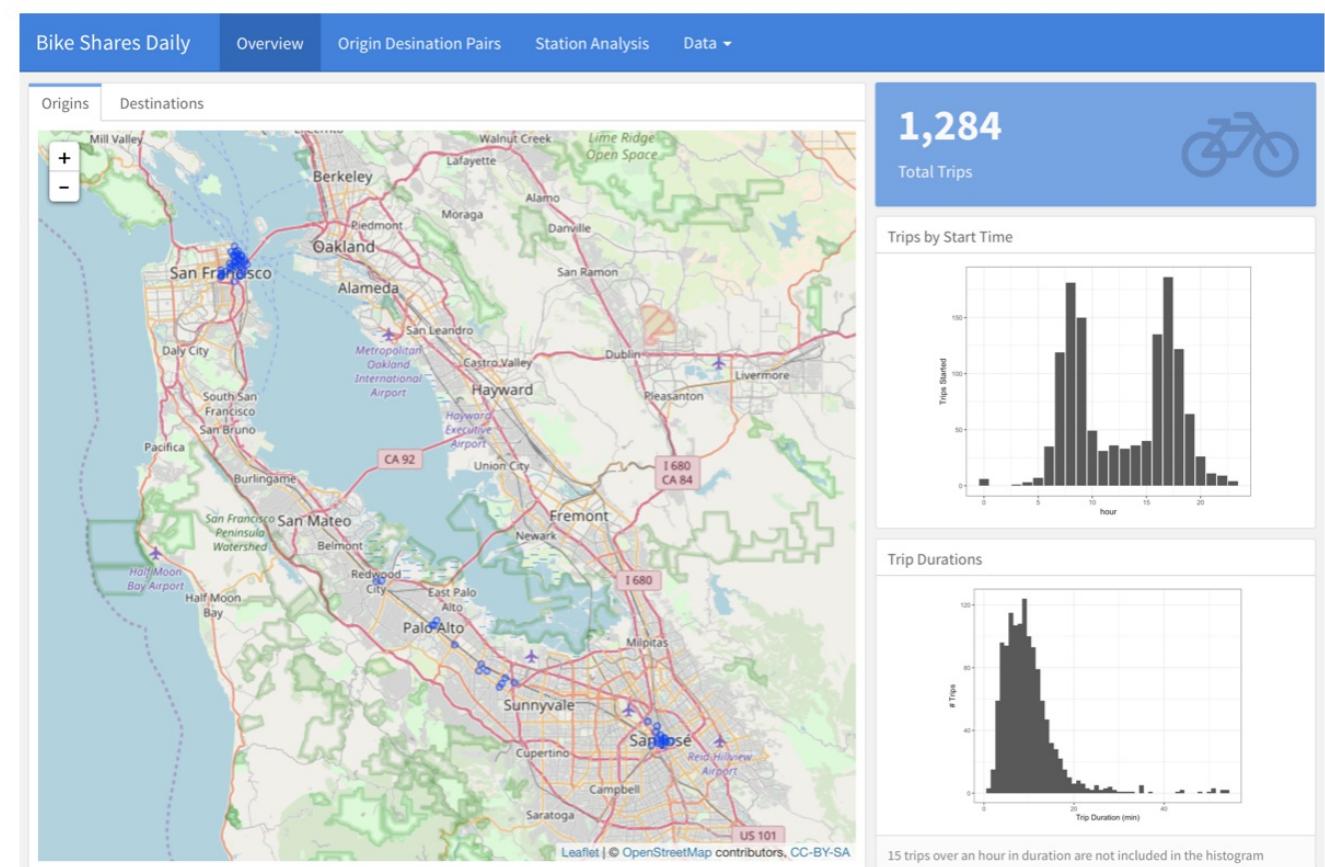
Welcome to the course!

Elaine McVey
Director of Quantitative Mobility
TransLoc

What is a dashboard?



What is flexdashboard?



What you'll learn in this course



BUILDING DASHBOARDS WITH FLEXDASHBOARD

Let's practice!



BUILDING DASHBOARDS WITH FLEXDASHBOARD

Anatomy of a flexdashboard

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TransLoc

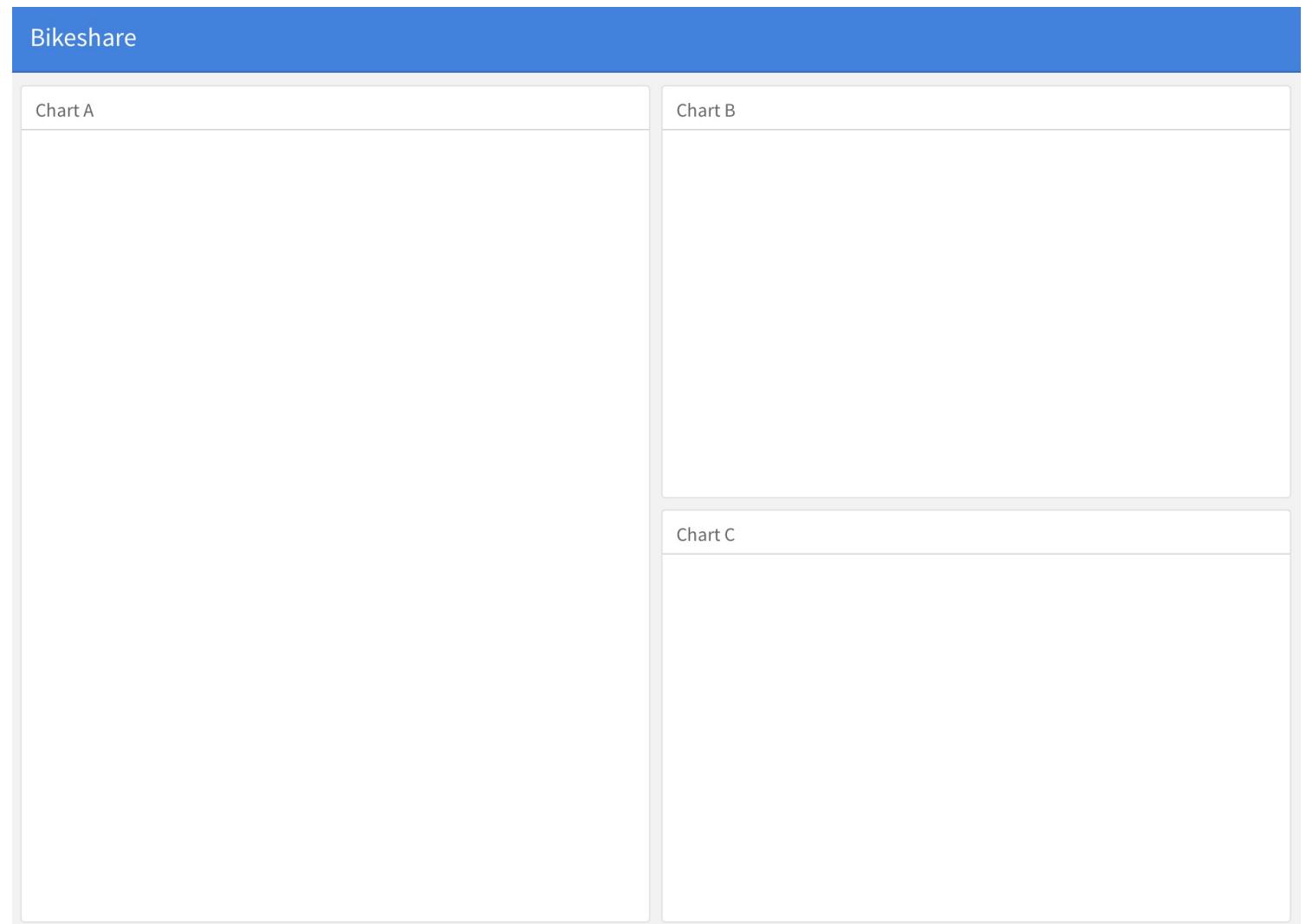
R Markdown: the header

```
title: "My Report"  
output: html_document
```

Turning R Markdown into a flexdashboard

```
title: "My Dashboard"  
output:  
  flexdashboard::flex_dashboard
```

A flexdashboard is made of charts ...



A flexdashboard is made of charts ...

```
---
```

```
title: "Bikeshare"
```

```
output:
```

```
  flexdashboard::flex_dashboard
```

```
---
```

```
```{r setup, include=FALSE}
```

```
library(flexdashboard)
```

```
```
```

Column

Chart A

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

```
...
```

### Chart B

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

```
...
```

Chart C

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

```
...
```

# ... and charts are arranged in columns

```

```

```
title: "Bikeshare"
```

```
output:
```

```
 flexdashboard::flex_dashboard:
```

```
 orientation: columns
```

```
--|
```

```
```{r setup, include=FALSE}
```

```
library(flexdashboard)
```

```
```
```

```
Column
```

```

```

```
Chart A
```

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

```
...
```

```
Column
```

```
-----
```

```
### Chart B
```

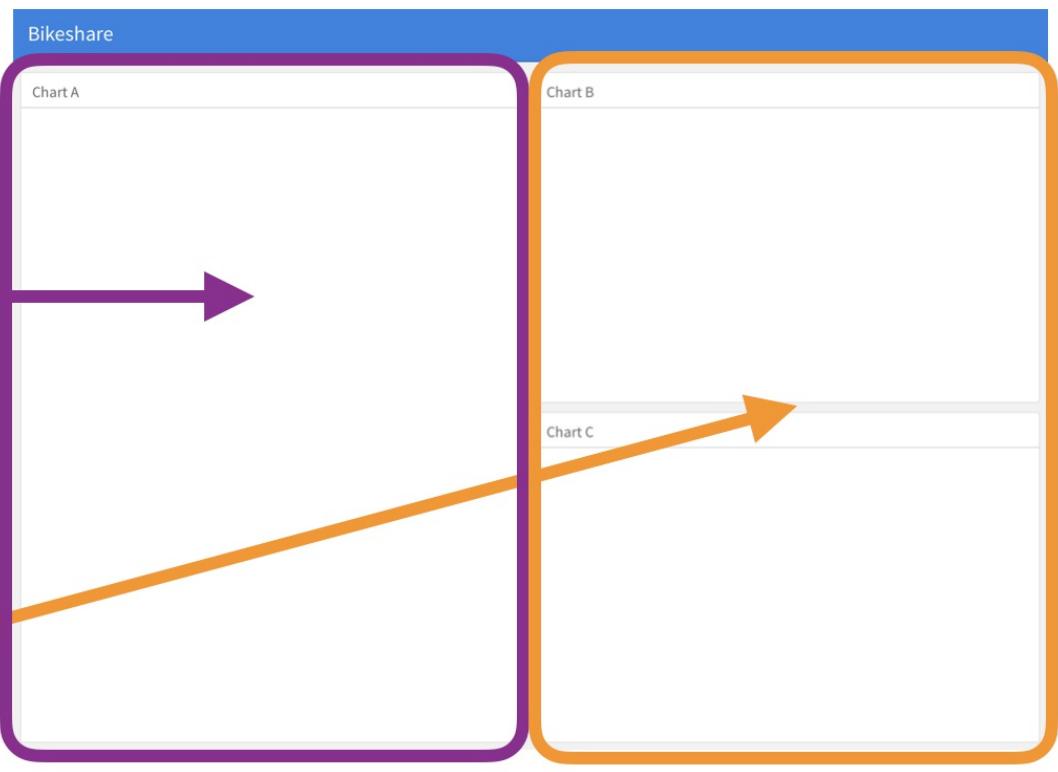
```
```{r}
```

```
...
```

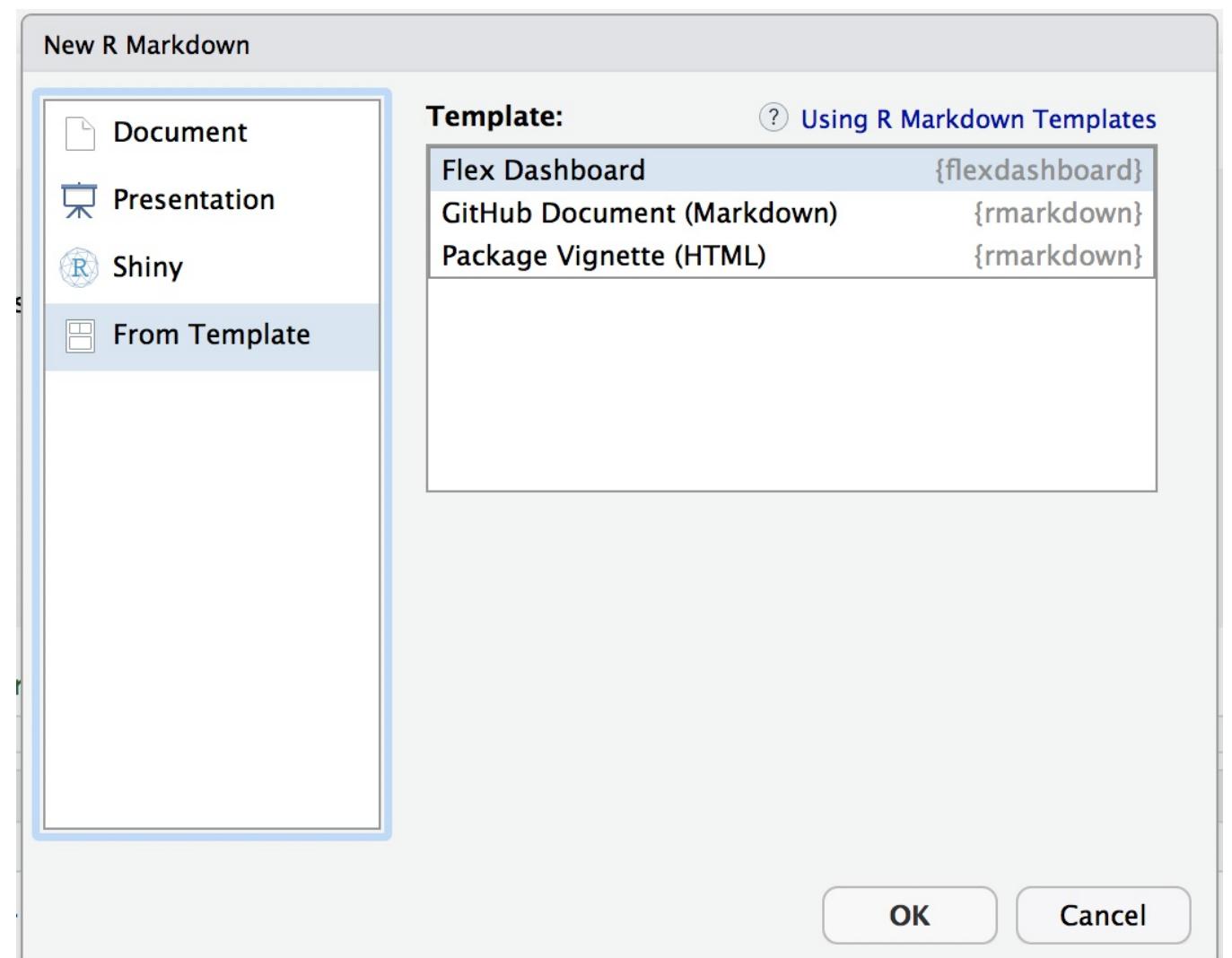
```
Chart C
```

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

```
...
```



Knit!



Our data





BUILDING DASHBOARDS WITH FLEXDASHBOARD

Let's practice!

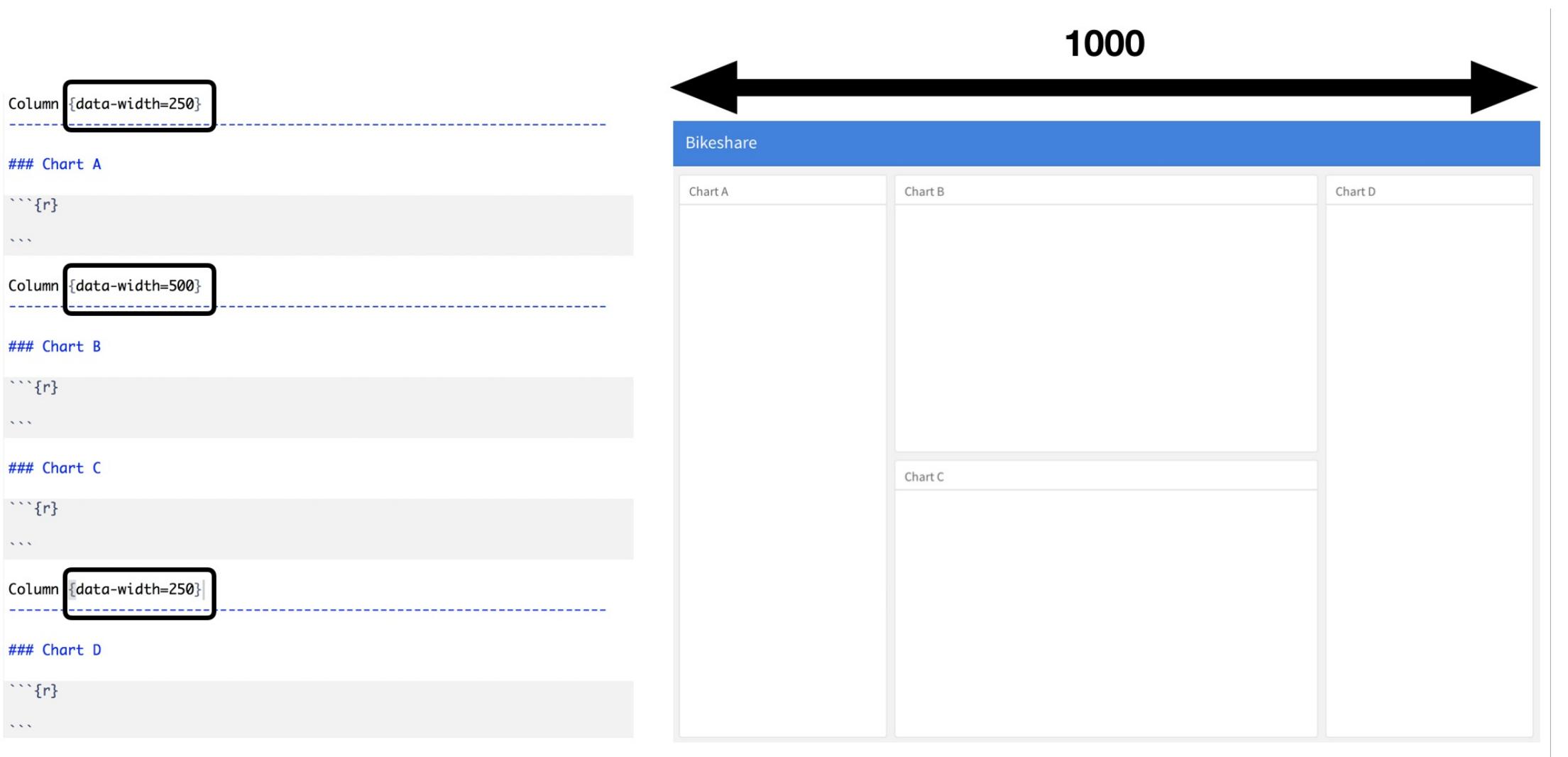


BUILDING DASHBOARDS WITH FLEXDASHBOARD

Layout basics

Elaine McVey
Director of Quantitative Mobility
TransLoc

Column Widths



Rows Instead

```
---
```

```
title: "Bikeshare"
output:
  flexdashboard::flex_dashboard:
    orientation: rows
---
```

Row Layout

```
---
```

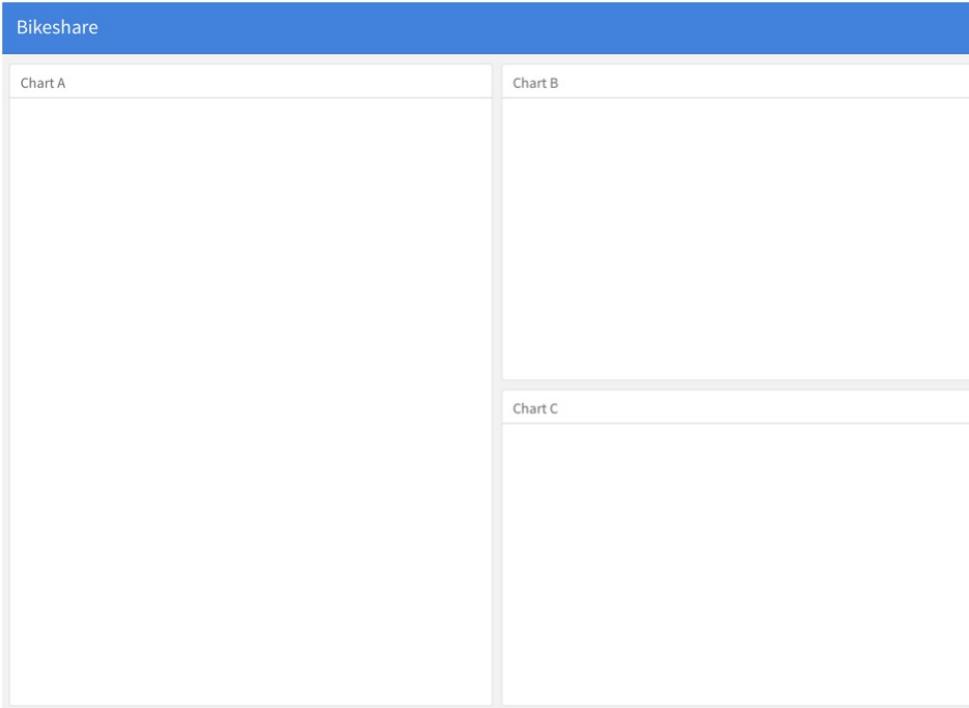
```
title: "Bikeshare"
```

```
output:
```

```
  flexdashboard::flex_dashboard:
```

orientation: columns

```
---
```



```
---
```

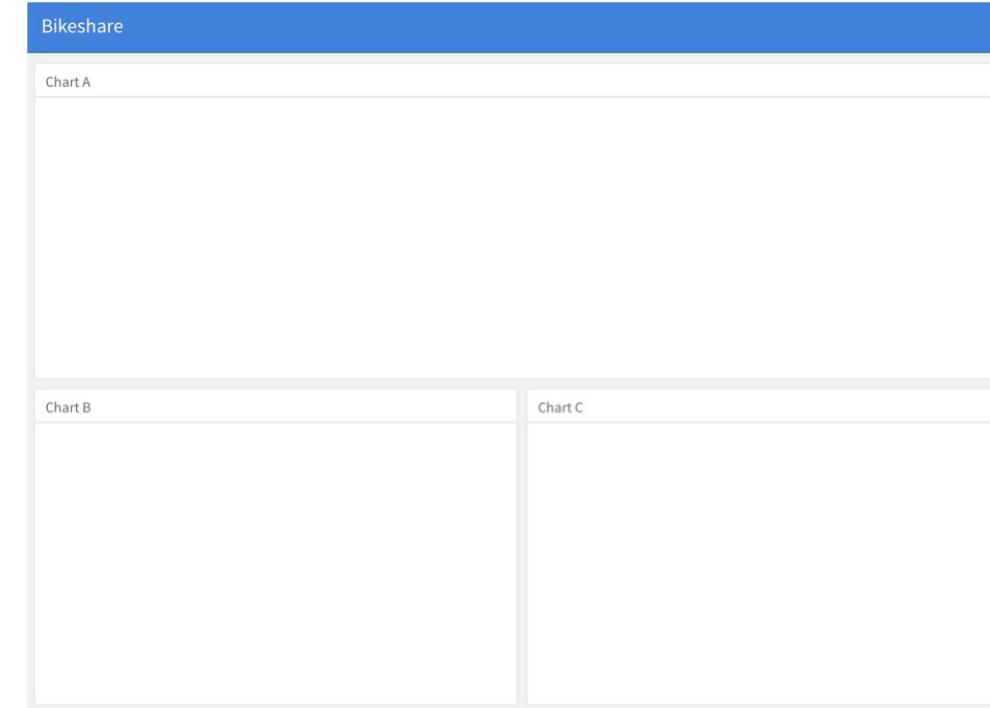
```
title: "Bikeshare"
```

```
output:
```

```
  flexdashboard::flex_dashboard:
```

orientation: rows

```
---
```



Scrolling

```
title: "Bikeshare"  
output:  
  flexdashboard::flex_dashboard:  
    orientation: columns  
    vertical_layout: scroll
```



BUILDING DASHBOARDS WITH FLEXDASHBOARD

Let's practice!



BUILDING DASHBOARDS WITH FLEXDASHBOARD

Advanced layouts

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Director of Quantitative Mobility
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Expanding Dashboards



Tabssets

```
Column {.tabset}  
  
### Chart A  
  
```{r}  
...

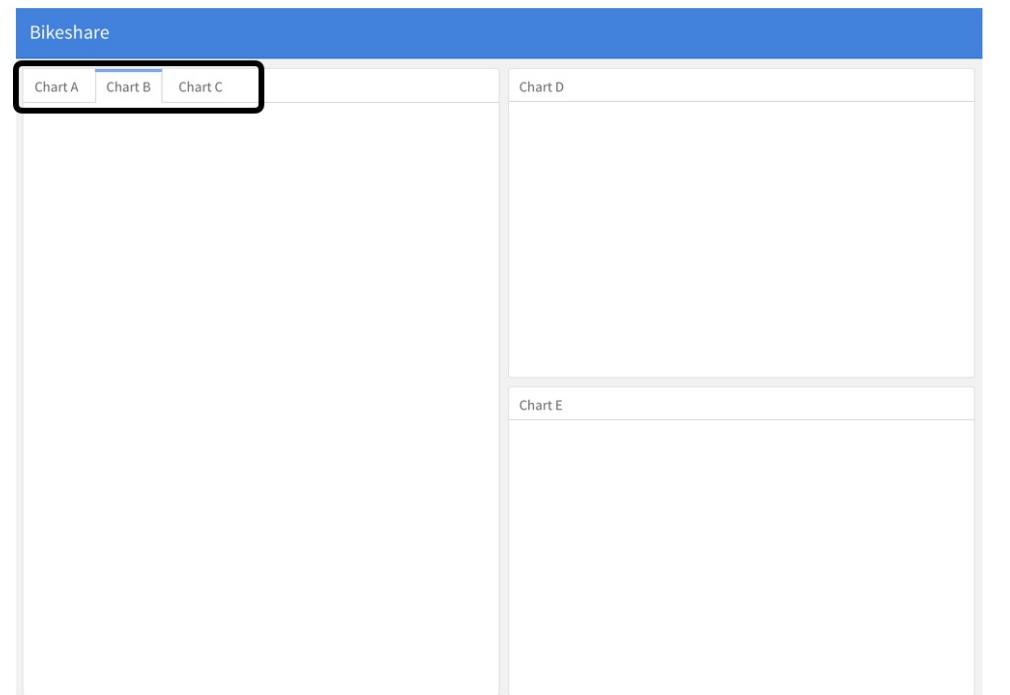
Chart B

```{r}  
...  
  
### Chart C  
  
```{r}  
...

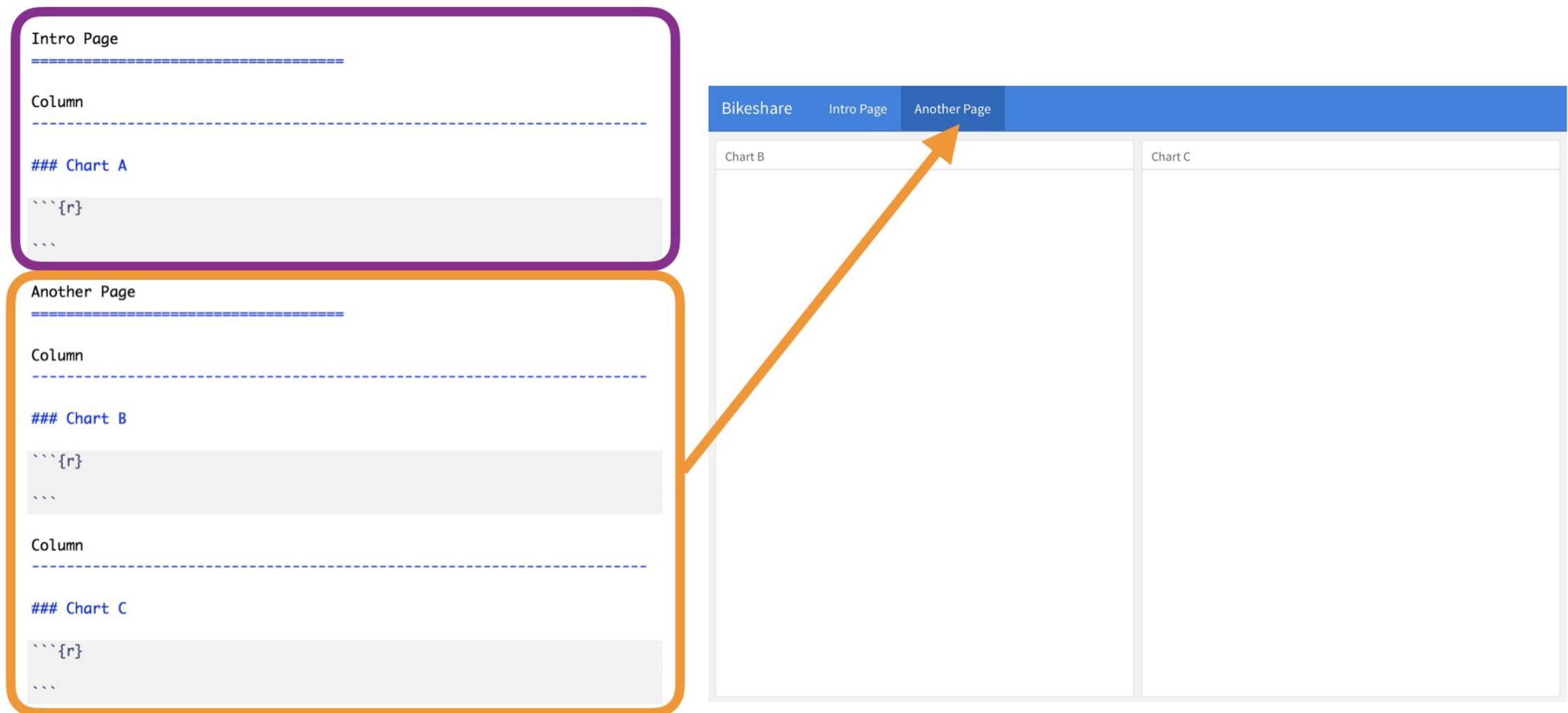
Column

Chart D

```{r}  
...  
  
### Chart E  
  
```{r}  
...
...
```



# Pages



# Creating Menus

The image shows the RStudio environment with the code for a flexdashboard on the left and its corresponding dashboard interface on the right.

**Code (Left):**

```
Intro Page
=====
Column

Chart A
```{r}
```
```
Page 2 {data-navmenu=Details}
=====
Column
-----
### Chart B
```{r}
```
```
Page 3 {data-navmenu=Details}
=====
Column

Chart C
```{r}
```
```
Page 4 {data-navmenu="Even More"}
=====
Column
-----
### Chart D
```{r}
```
```

```

**Dashboard (Right):**

The dashboard has a blue header with tabs: Bikeshare, Intro Page, Details ▾, and Even More ▾. The "Details" tab is active, showing a dropdown menu with options: Page 2 and Page 3. An orange arrow points from the "Page 3 {data-navmenu=Details}" code block in the code view to the "Page 3" option in the dropdown menu.

# Setting Page Orientation

```
Intro Page
=====
```

Column

```

```

### Chart A

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

```
...
```

Another Page `{data-orientation=rows}`

```
=====
```

Column

```
-----
```

Chart B

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

```
...
```

Column

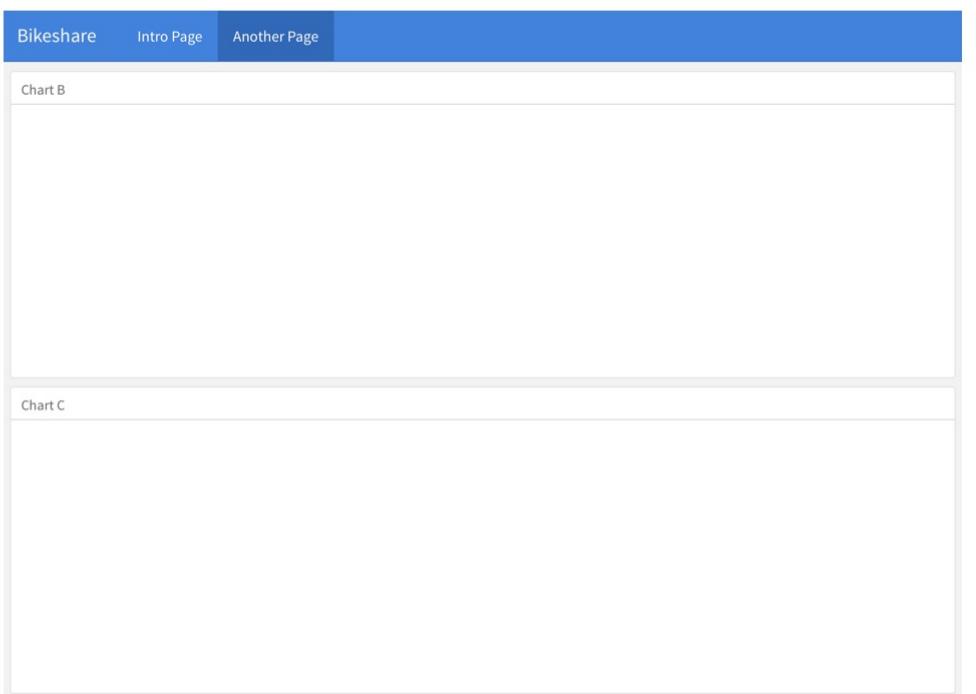
```

```

### Chart C

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

```
...
```





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Let's practice!