

Leaflet

The Johns Hopkins Data Science Lab

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Introduction

Leaflet is one of the most popular Javascript libraries for creating interactive maps. The leaflet R package allows you to create your own leaflet maps without needing to know any Javascript!

Installation

```
install.packages("leaflet")
```

Your First Map

```
library(leaflet)
my_map <- leaflet() %>%
  addTiles()
my_map
```

Adding Markers

```
library(leaflet)
my_map <- my_map %>%
  addMarkers(lat=39.2980803, lng=-76.5898801,
             popup="Jeff Leek's Office")
my_map
```

Adding Many Markers

```
set.seed(2016-04-25)
df <- data.frame(lat = runif(20, min = 39.2, max = 39.3),
                  lng = runif(20, min = -76.6, max = -76.5))
df %>%
  leaflet() %>%
  addTiles() %>%
  addMarkers()
```

Making Custom Markers

```
hopkinsIcon <- makeIcon(  
  iconUrl = "http://brand.jhu.edu/content/uploads/2014/06/v  
  iconWidth = 31*215/230, iconHeight = 31,  
  iconAnchorX = 31*215/230/2, iconAnchorY = 16  
)  
  
hopkinsLatLng <- data.frame(lat = c(39.2973166, 39.3288851),  
                             lng = c(-76.5929798, -76.620651))
```

Making Custom Markers

```
hopkinsLatLong %>%  
  leaflet() %>%  
  addTiles() %>%  
  addMarkers(icon = hopkinsIcon)
```