

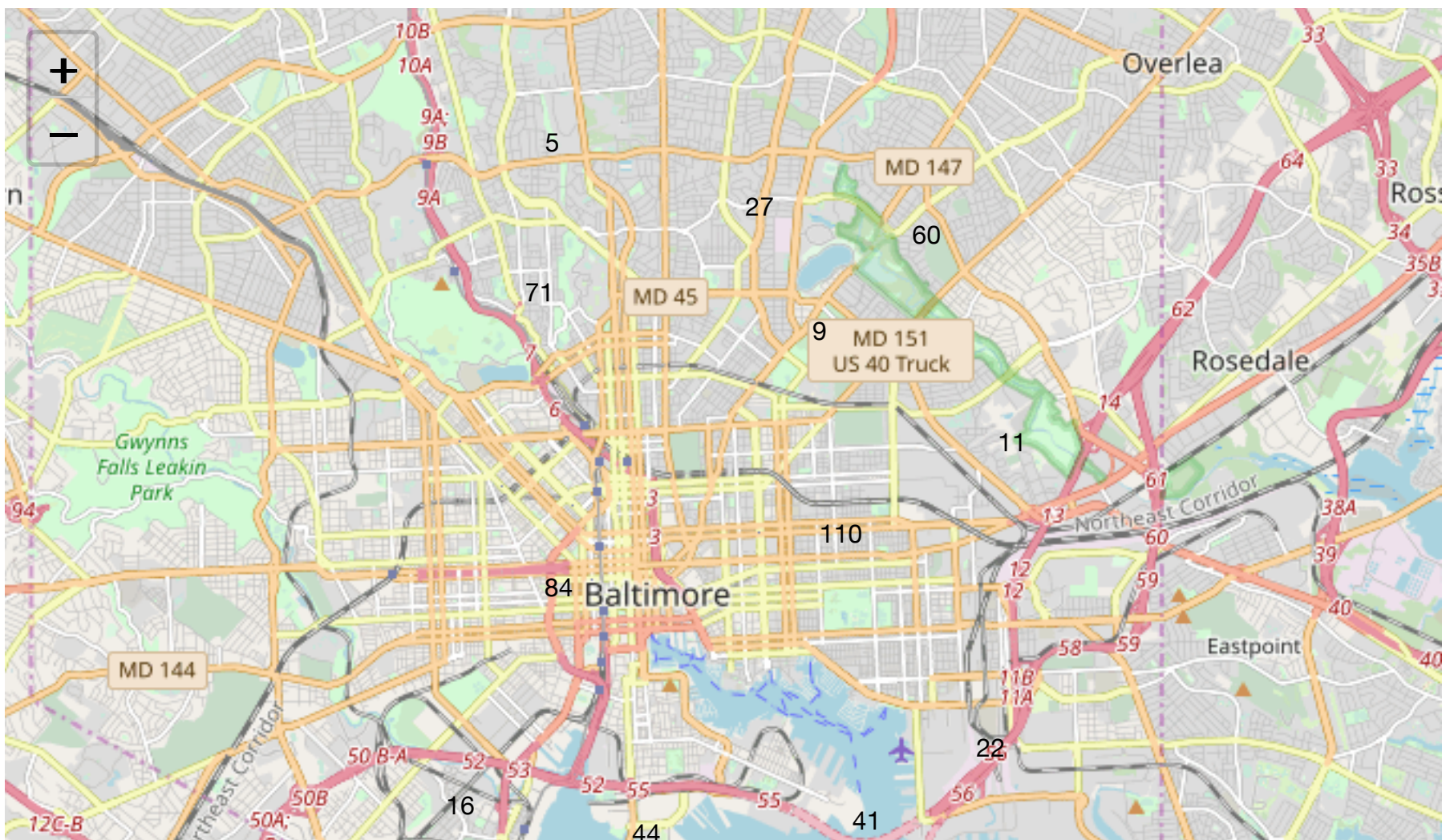
project

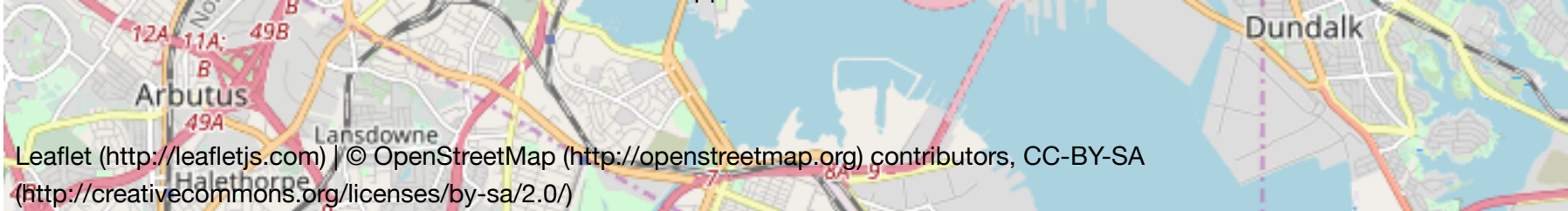
R Markdown

This is an R Markdown document. Markdown is a simple formatting syntax for authoring HTML, PDF, and MS Word documents. For more details on using R Markdown see <http://rmarkdown.rstudio.com> (<http://rmarkdown.rstudio.com>).

When you click the **Knit** button a document will be generated that includes both content as well as the output of any embedded R code chunks within the document. You can embed an R code chunk like this:

```
#Sometimes you might have so many points on a map that it doesn't make sense to plot every marker.  
#In these situations leaflet allows you to plot clusters of markers using addMarkers(clusterOptions = markerClusterOptions()).  
#When you zoom in to each cluster, the clusters will separate until you can see the individual markers  
library(leaflet)  
df <- data.frame(lat = runif(500, min = 39.25, max = 39.35),  
                 lng = runif(500, min = -76.65, max = -76.55))  
  
df %>%  
  leaflet() %>%  
  addTiles() %>%  
  addMarkers(clusterOptions = markerClusterOptions())
```





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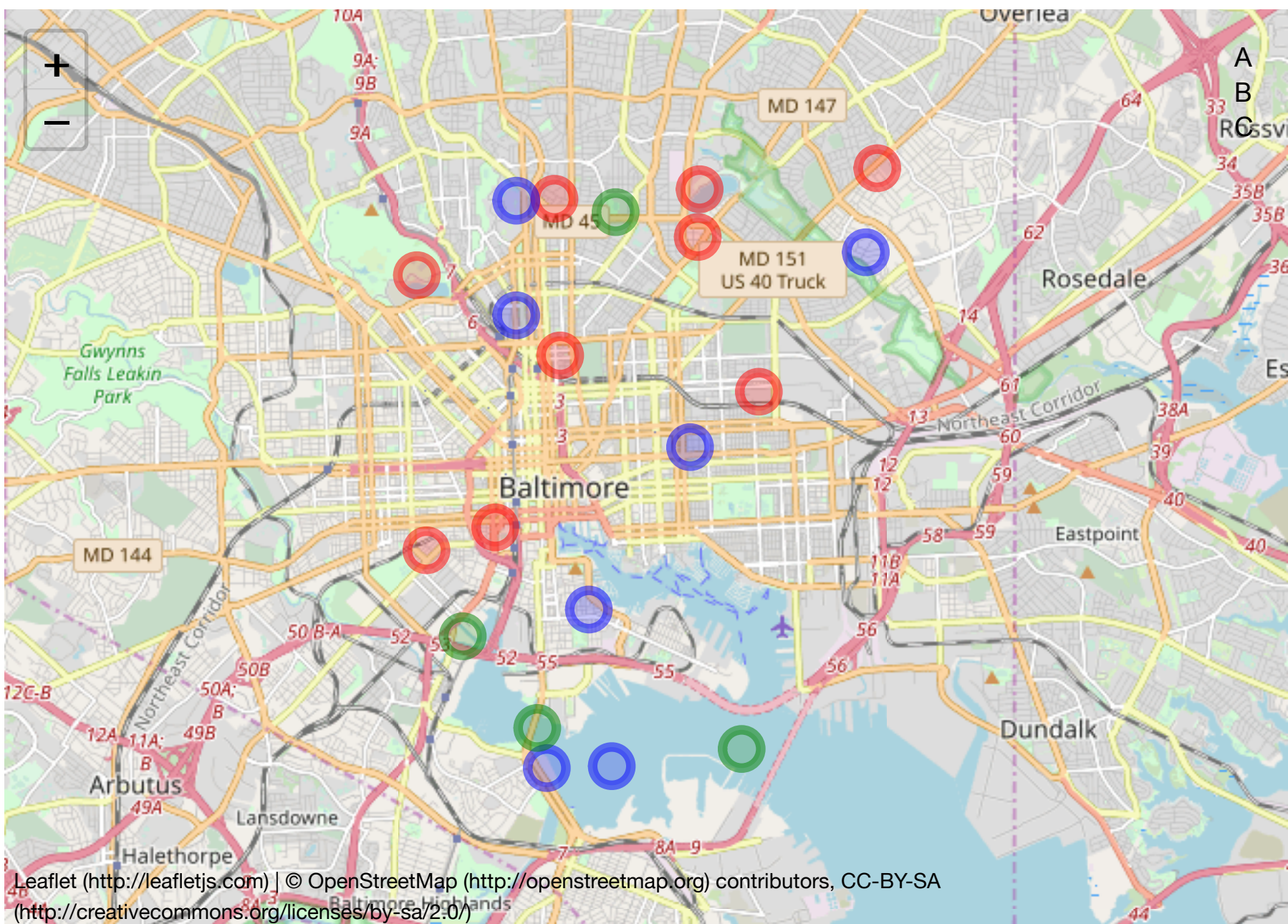
Adding Legends

#Adding a legend can be useful if you have markers on your map with different colors:

```
df <- data.frame(lat = runif(20, min = 39.25, max = 39.35),
  lng = runif(20, min = -76.65, max = -76.55),
  col = sample(c("red", "blue", "green"), 20, replace = TRUE),
  stringsAsFactors = FALSE)
```

```
df %>%
  leaflet() %>%
  addTiles() %>%
  addCircleMarkers(color = df$col) %>%
  addLegend(labels = LETTERS[1:3], colors = c("blue", "red", "green"))
```

Assuming "lng" and "lat" are longitude and latitude, respectively



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