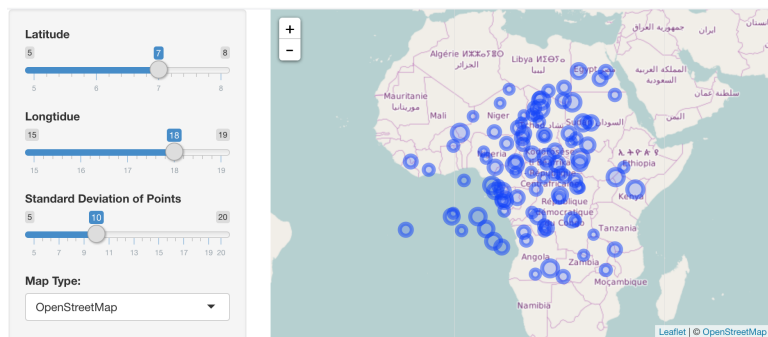


htmlwidgets

htmlwidgets: JavaScript

The interactive web is driven by JavaScript*, the majority of interactive elements that you use on websites are written in JavaScript - from interactive maps to auto-completing pop-up menus.



htmlwidgets: The Framework

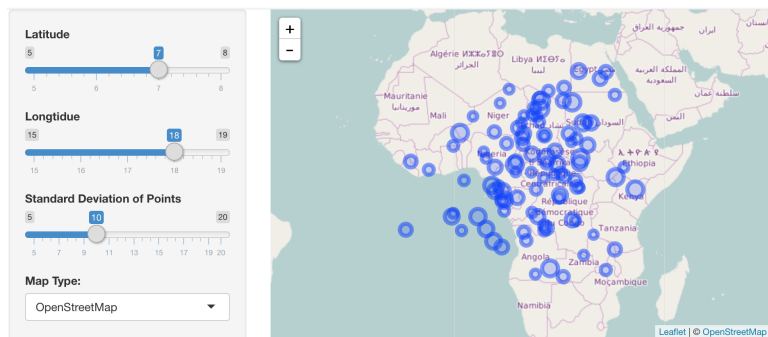
Like in R, there are hundreds of different JavaScript libraries dedicated to various visualisation tasks.

There is a package called `htmlwidgets` that allows R developers to easily build bindings to JavaScript libraries, allowing incredibly rich interactive content for the web to be built just with the R language.

htmlwidgets: The Packages

These bindings to JavaScript libraries are typically distributed as individual R packages; an individual R package for an individual JavaScript library. The `htmlwidgets.org` website provides a showcase of some of the `htmlwidget` dependent bindings that are available through CRAN.

```
m <- leaflet() %>%  
  addTiles() %>% # Add default OpenStreetMap map tiles  
  addMarkers(lng=174.768, lat=-36.852, popup="The birthplace of R")  
m
```

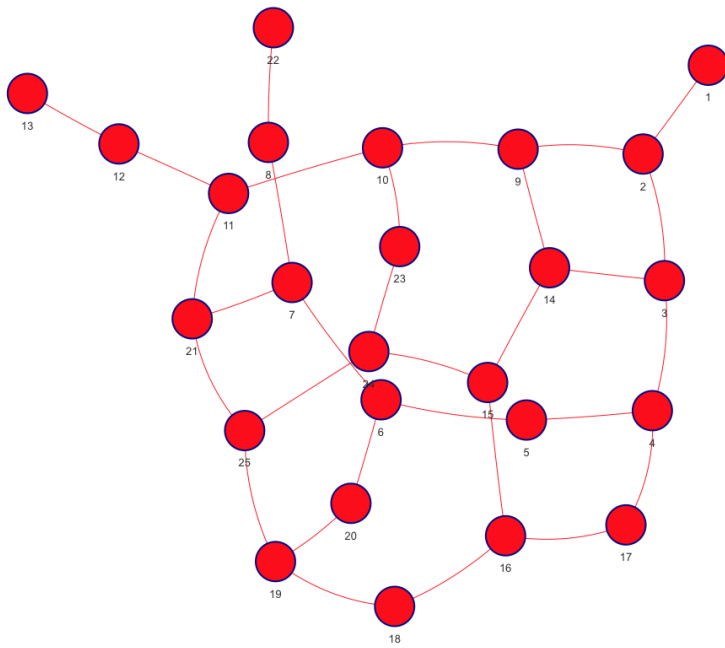


```
library(visNetwork)  
suppressWarnings(library(igraph))  
igraph_network <- graph.famous("Walther")
```

```

data <- toVisNetworkData(igraph_network)
visNetwork(nodes = data$nodes, edges = data$edges) %>%
  visNodes(color = list(background = "red",
                        border = "darkblue",
                        highlight = "yellow")) %>%
  visEdges(color = list(color = "red"))

```



Exercises (20mins)