Leaflet Resources from 02/13/19 Demo w/MM and JK

**What is Leaflet?**

“Leaflet is the leading open-source JavaScript library for mobile-friendly interactive maps.” -https://leafletjs.com/

It’s used alongside HTML, CSS, and JavaScript to create interactive maps on a webpage.

Our STARS Maps:

<https://maggiehm.github.io/leafletdemo/map-normal.html>

<https://maggiehm.github.io/leafletdemo/map-watercolor.html>

The files and codes for the maps on GitHub: <https://github.com/maggiehm/leafletdemo>

**Tutorials:**

* MM’s favorite extremely simple Maptime Boston Tutorial w/ (rad) Ratmap example: <https://maptimeboston.github.io/leaflet-intro/>
* JK’s favorite super basic Leaflet Tutorial from Joshua Frazier (which also explains HTML, JavaScript, and CSS parts of the Leaflet process): <http://joshuafrazier.info/leaflet-basics/>

**Resources & Tools:**

* List of maps available for use by Leaflet (includes basemaps and layers that you can add on top!): <https://leaflet-extras.github.io/leaflet-providers/preview/>
* Leaflet’s webpage: <https://leafletjs.com/>
* JSFiddle, a tool for fiddling with JavaScript and other code to see what it’ll look like without hosting it on a website. You can run the code in the tutorials above in JSFiddle to play around with your own edits without committing to a website: [https://jsfiddle.net](https://jsfiddle.net/)
* Chrome Developer Tools, which includes a console that can help you debug your JavaScript: <https://developers.google.com/web/tools/chrome-devtools/console/>
* RegExr (as mentioned by MM), a tool to “learn, build, & test Regular Expressions,” to help you write JavaScript code (especially to transform data from a CSV into JS variables for Leaflet): <https://regexr.com/>

**Using Leaflet in R/RStudio:**

Leaflet can also be used in R, a free software environment for statistical computing and graphics. RStudio is the integrated development environment (IDE) for R, and gives you a more user-friendly interface than plain ol’ R.

* RStudio’s introduction to using Leaflet in R (with brief tutorial): <http://rstudio.github.io/leaflet/>
* SuperZIP, an example of a webapp made in R/RStudio using the RStudio package Shiny for webapps and Leaflet for maps: <http://shiny.rstudio.com/gallery/superzip-example.html>
  + The GitHub page for SuperZip, which shows the files and code working behind the scenes, and explains how to run it in RStudio: <https://github.com/rstudio/shiny-examples/tree/master/063-superzip-example>