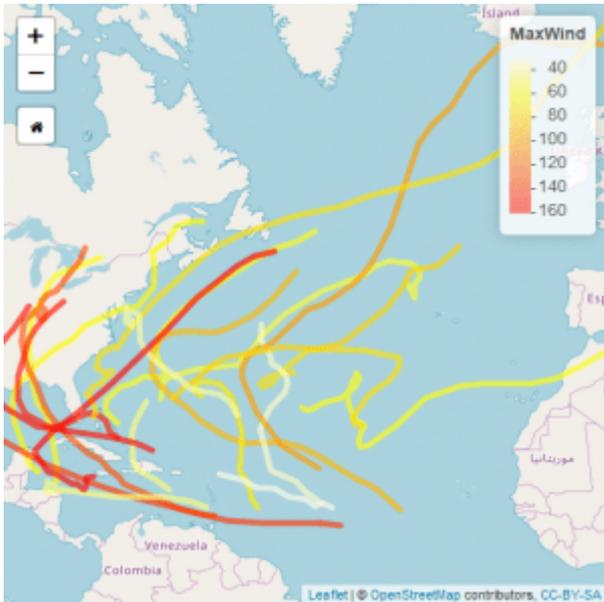


Specialize in Geo-Spatial Visualizations With Leaflet – Part 2: Exercises



Leaflet is a JavaScript library for interactive maps. It is widely used across many platforms and fortunately, it is also implemented as a very user-friendly R package! With leaflet, you can create amazing maps within minutes that are customized exactly to your needs and embed them within your Shiny apps, markdowns or just view them in your RStudio viewer.

In the following set of exercises, we will use the geo-spatial data of the Atlantic Ocean storms in 2005. The data is readily available in the leaflet package under the variable `leaflet::atlStorms2005`. Each exercise is adding some more features/functionalities to the code of the previous exercise, so be sure not to discard the code until after you're done with all of the exercises. Answers to these exercises are available [here](#).

For other parts of the series, follow the tag [leaflet](#).

Exercise 1

Set the default view to longitude -47.4, latitude 39.75 and zoom level 3.

In addition, add a button that will scale back to the default view upon clicking it.

Hint: use the `icon()` function from the `shiny` package to easily render an icon of your choice for the button.

Exercise 2

Add the lines that represent the storms traces to the map.

Exercise 3

Color each line according to the storm max wind.

Exercise 4

Add a legend to the colors you just added.

Exercise 5

Upon hovering over a line, change its weight to 10.



Learn more about Spatial data analysis in the online course [Intermediate Spatial Data Analysis with R, QGIS & More](#). This course is designed to take users who use R and QGIS for basic spatial data/GIS analysis to perform more **advanced GIS tasks** (including automated workflows and geo-referencing) using a variety of different data. In addition to making you proficient in R and QGIS for spatial data analysis, you will be introduced to another powerful free GIS software.. GRASS.

Exercise 6

Upon hovering over a line, show a label with the storm name.

Exercise 7

Upon clicking a line, show a pop-up with the storm minimum pressure.

Exercise 8

Save your leaflet map as an HTML file.

Hint: use `htmlwidgets::save()`.