1. **Code pour carte Pharmacy + choropeth**

```{r}

leaflet(data1) %>%

# Base groups

addTiles(group = "") %>%

# Overlay groups

addMarkers(lat= ~lat, lng = ~lon,popup=data1$Company,

clusterOptions = markerClusterOptions, group = "Covid-19 Vaccine manufacturers") %>%

addGeoJSON(geojson,

fill = pal, weight = 2, color = pal, group = "top 1000") %>%

addLegend(pal = pal, values = geojson$ncompany, opacity = 0.7, title = "Number of company",

position = "bottomright")%>%

# Layers control

addLayersControl(

overlayGroups = c("top 1000","Covid-19 Vaccine manufacturers"),

options = layersControlOptions(collapsed = FALSE)

)

```

1. **Code long to wide**

Lien: <https://www.sdafrique.org/cours/cours1_material/seance3.html>

A partir de la page 29 de la presentation

1. **Lien pour cree un siteweb**

<https://nceas.github.io/training-rmarkdown-website/tutorial.html>