Partie 3

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##### Debut du code

#------------------------------------------------------------  
library(sp)

## The legacy packages maptools, rgdal, and rgeos, underpinning the sp package,  
## which was just loaded, will retire in October 2023.  
## Please refer to R-spatial evolution reports for details, especially  
## https://r-spatial.org/r/2023/05/15/evolution4.html.  
## It may be desirable to make the sf package available;  
## package maintainers should consider adding sf to Suggests:.  
## The sp package is now running under evolution status 2  
## (status 2 uses the sf package in place of rgdal)

library(ggplot2)  
library(dplyr)

##   
## Attachement du package : 'dplyr'

## Les objets suivants sont masqués depuis 'package:stats':  
##   
## filter, lag

## Les objets suivants sont masqués depuis 'package:base':  
##   
## intersect, setdiff, setequal, union

library(rnaturalearth)

## Support for Spatial objects (`sp`) will be deprecated in {rnaturalearth} and will be removed in a future release of the package. Please use `sf` objects with {rnaturalearth}. For example: `ne\_download(returnclass = 'sf')`

library(leaflet)  
library(shiny)  
library(plotly)

##   
## Attachement du package : 'plotly'

## L'objet suivant est masqué depuis 'package:ggplot2':  
##   
## last\_plot

## L'objet suivant est masqué depuis 'package:stats':  
##   
## filter

## L'objet suivant est masqué depuis 'package:graphics':  
##   
## layout

#-----------------------------------------------------------------  
# Chargement des packages necessaires  
#----------------------------------------------------------------  
  
  
  
  
base\_donnee <- read.csv("ACLED-Western\_Africa.csv")  
# chargement de la base de donnée   
  
test = subset(base\_donnee, pays=="Mali" & type=="Protests" & annee=="2022")  
# Création d'un dataframe pour les marqueurs  
  
  
# Partie création de l'interface utilisateur  
  
ui <- fluidPage(  
   
 # titre de l'application  
 titlePanel("CARTE SHINY"),  
   
 # Sidebar with a slider input for number of bins   
 sidebarLayout(  
 sidebarPanel(  
 selectInput(  
 inputId="pays",  
 label="CHOISIR UN PAYS",  
 choices=c(unique(base\_donnee$pays)),  
 selected = c(unique(base\_donnee$pays))[sample(1:length(unique(base\_donnee$pays)),1)],  
 multiple = TRUE  
 ),  
 selectInput(  
 inputId="evenement",  
 label="CHOISIR DES EVENEMENTS",  
 choices=c(unique(base\_donnee$type)),  
 selected = "Protests",  
 multiple = TRUE  
 ),  
 selectInput(  
 inputId="annee",  
 label="ANNEE DE REALISATION",  
 choices=c(unique(base\_donnee$annee)),  
 selected = "2022",  
 multiple = TRUE  
 )  
 ),  
   
 # Show a plot of the generated distribution  
 mainPanel(  
 plotlyOutput(outputId="map",  
 width = "100%",  
 height = "720px")  
 )  
 )  
)  
  
  
# Partie concernant le serveur  
  
server <- function(input, output, session) {  
 output$map <- renderPlotly({  
 gg <- ggplot() +  
 geom\_polygon(data = ne\_countries(type = "countries",country = c(input$pays)), aes(x = long, y = lat, group = group),  
 fill = "lightblue", color = "gray", alpha = 0.6) +  
 #geom\_point(data = base, aes(x = longitude, y = latitude),  
 #size = 3, alpha = 0.7) +  
 theme\_void() +  
 labs(title = "Carte de l'Afrique de l'Ouest", x = "", y = "") +  
 theme(legend.position = "bottom")  
   
 ggplotly(gg)  
 })  
}  
  
shinyApp(ui = ui, server = server)