

Mapas Leaflet

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Mapa descartado de: <http://www.diva-gis.org/Data>
(<http://www.diva-gis.org/Data>)

```
# Libraries  
library(rgdal)
```

```
## Loading required package: sp
```

```
## rgdal: version: 1.1-10, (SVN revision 622)  
## Geospatial Data Abstraction Library extensions to R successfully loaded  
## Loaded GDAL runtime: GDAL 1.11.4, released 2016/01/25  
## Path to GDAL shared files: /Library/Frameworks/R.framework/Versions/3.3/Resources/library/rgdal/gdal  
## Loaded PROJ.4 runtime: Rel. 4.9.1, 04 March 2015, [PJ_VERSION: 491]  
## Path to PROJ.4 shared files: /Library/Frameworks/R.framework/Versions/3.3/Resources/library/rgdal/proj  
## Linking to sp version: 1.2-3
```

```
library(leaflet)  
library(RColorBrewer)  
# para compilar pdf  
library(webshot)  
# directory  
#tmp <- tempdir()
```

El mapa viene en un solo archivo con las tres dimensiones de detalle: país>departamento>municipio

Los separé y guarde cada nivel de detalle en una carpeta separada

```
library("RColorBrewer")
library("webshot")

# Paleta de colores
#pal <- colorQuantile("YlGn", NULL, n = 5)
pal <- brewer.pal(12,"Set3")
```

Mapa del territorio nacional

```
library("leaflet")
library("rgdal")
library("webshot")
# Pais
urlCol0 <- "/Users/juansalamanca/Documents/WorkspaceR/Maps/Mapas Daniela/COL_adm/0"

# Object of class SpatialPolygonsDataFrame
colombia <- readOGR(dsn = urlCol0, layer = "COL_adm0", encoding = "UTF-8")
```

```
## OGR data source with driver: ESRI Shapefile
## Source: "/Users/juansalamanca/Documents/WorkspaceR/Maps/Mapas Daniela/COL_adm/0", layer: "COL_adm0"
## with 1 features
## It has 70 fields
```

```
# Leyenda en el roll over
state_popup_Col <- paste0("<strong>Estado: </strong>", colombia$NAME_ISO)

# objeto leaflet que se pinta en el canvas
pais1 <- leaflet(data = colombia) %>%
  addProviderTiles("CartoDB.Positron") %>%
  addPolygons(fillColor = pal, fillOpacity = 0.8, color = "#BDBDC3", weight = 1, popup = state_popup_Col)
# Pintar mapa
# Por alguna razon si pinto este mapa no se pintan los de mas abajo.
#pais1
```

Mapa de departamentos del territorio nacional

```

library("leaflet")
library("rgdal")
library("webshot")
# Departamento
urlColl <- "/Users/juansalamanca/Documents/WorkspaceR/Maps/Mapas Daniela/COL_adm/
1"
# Object of class SpatialPolygonsDataFrame
colombial <- readOGR(dsn = urlColl, layer = "COL_adm1", encoding = "UTF-8")

```

```

## OGR data source with driver: ESRI Shapefile
## Source: "/Users/juansalamanca/Documents/WorkspaceR/Maps/Mapas Daniela/COL_adm/
1", layer: "COL_adm1"
## with 32 features
## It has 16 fields

```

```

#summary(colombial)
# Leyenda en el roll over
state_popup_Col <- paste0("<strong>Departamento: </strong>", colombial$NAME_1)

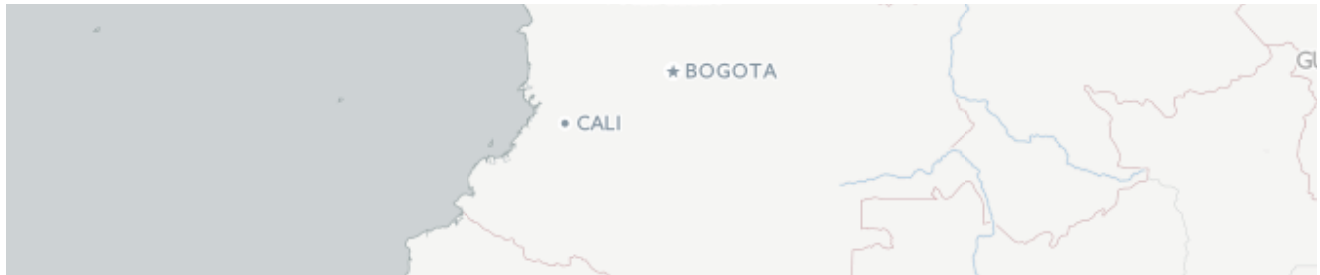
library("RColorBrewer")

# Paleta de colores
#pal <- colorQuantile("YlGn", NULL, n = 5)
pal <- brewer.pal(12,"Set3")

# objeto leaflet que se pinta en el canvas
departamentos <- leaflet(data = colombial) %>%
  addProviderTiles("CartoDB.Positron") %>%
  addPolygons(fillColor = pal, fillOpacity = 0.5, color = "#BDBDC3", weight = 1,
  popup = state_popup_Col)
# Pintar mapa
departamentos

```





Mapa de municipios territorio nacional

```
library("leaflet")
library("rgdal")
library("webshot")
# Municipio
urlCol2 <- "/Users/juansalamanca/Documents/WorkspaceR/Maps/Mapas Daniela/COL_adm/
2"
# Object of class SpatialPolygonsDataFrame
colombia2 <- readOGR(dsn = urlCol2, layer = "COL_adm2", encoding = "UTF-8")
```

```
## OGR data source with driver: ESRI Shapefile
## Source: "/Users/juansalamanca/Documents/WorkspaceR/Maps/Mapas Daniela/COL_adm/
2", layer: "COL_adm2"
## with 1065 features
## It has 18 fields
```

```
#summary(colombia2)
# Leyenda en el roll over
state_popup_Col <- paste0("<strong>Departamento: </strong>", colombia2$NAME_1, "<
br><strong>Municipio: </strong>", colombia2$NAME_2)

# objeto leaflet que se pinta en el canvas
municipios <- leaflet(data = colombia2) %>%
  addProviderTiles("CartoDB.Positron") %>%
  addPolygons(fillColor = pal, fillOpacity = 0.5, color = "#BDBDC3", weight = 1,
popup = state_popup_Col)
# Pintar mapa
municipios
```

