# Mortalité Hospitaliere SIG

### Dr R.TIBA MISP | DSP Wilaya de Djelfa

#### 2022-08-01

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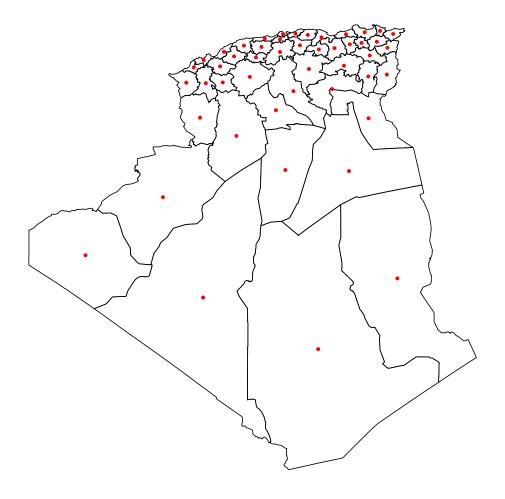
| 1      | load data deces  | 1                          |
|--------|--|----------------------------|
| 2      | load data sig  | 1                          |
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|        | urce("connection_db.R") $tr(data)$                                       |                            |

# 2 load data sig

```
source("sig.R")
```

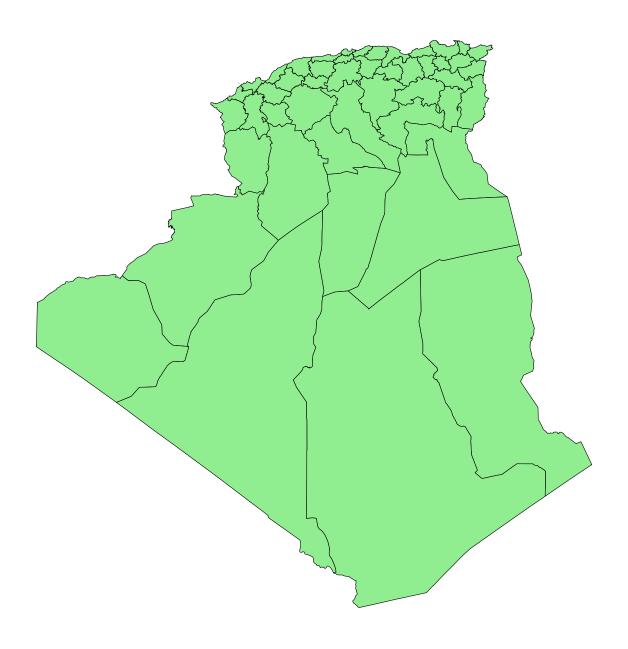
## 3 wilayas algerie

```
#str(w_algeria)
#st_crs(w_algeria)
mtq_w <- st_centroid(w_algeria)
plot(st_geometry(w_algeria))
plot(st_geometry(mtq_w), add=TRUE, cex=0.8, col="red", pch=20)</pre>
```



## 3.1 wilayas algerie

```
ggplot()+
  geom_sf(data = w_algeria,fill="lightgreen",color="black",size=0.25)+
  theme_void()+
  coord_sf(crs = "+proj=robin")
```



## 3.2 wilayas algerie

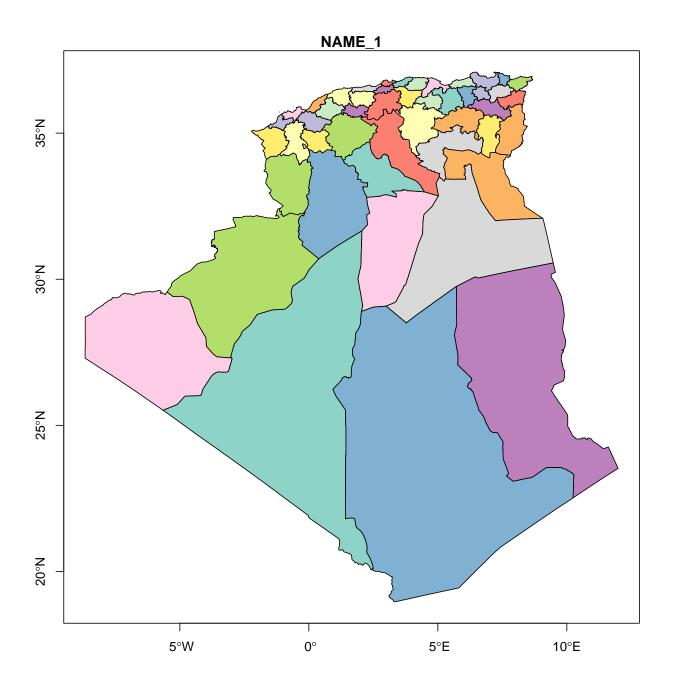
```
st_geometry(w_algeria) %>%
  plot()
w_algeria %>%
  select(NAME_1) %>%
  arrange(NAME_1) %>%
  slice(1:15) %>%
  plot(add = TRUE, col = 'lightgreen')
  title("the ten counties with smallest area")
```

## the ten counties with smallest area



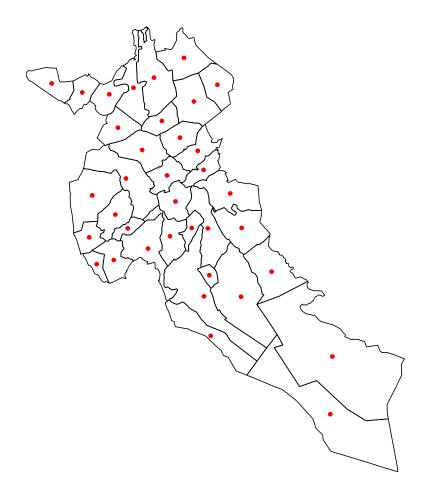
# 3.3 wilayas algerie

plot(w\_algeria["NAME\_1"], axes = TRUE)



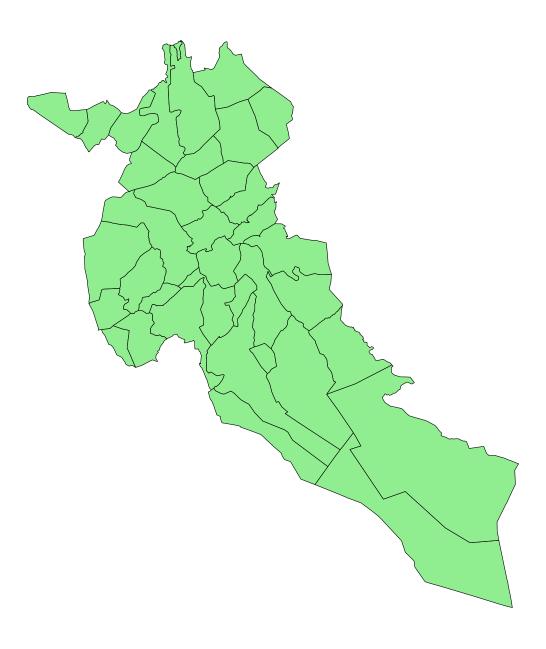
# 4 wilaya de djelfa

```
#str(wc_algeria)
#st_crs(wc_algeria)
djelfa <- wc_algeria %>% filter(NAME_1=="Djelfa")
mtq_d <- st_centroid(djelfa)
plot(st_geometry(djelfa))
plot(st_geometry(mtq_d), add=TRUE, cex=1, col="red", pch=20)</pre>
```



# 4.1 wilaya de djelfa

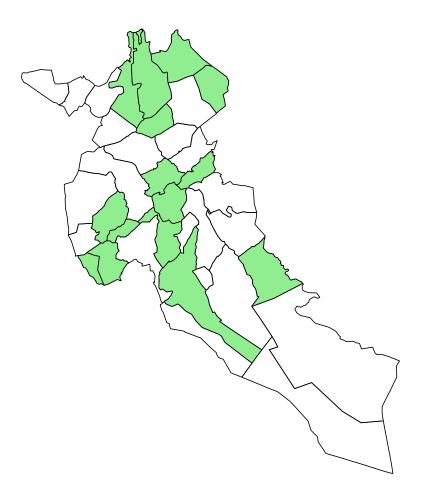
```
ggplot()+
  geom_sf(data = djelfa,fill="lightgreen",color="black",size=0.25)+
  theme_void()+
  coord_sf(crs = "+proj=robin")
```



# 4.2 wilaya de djelfa

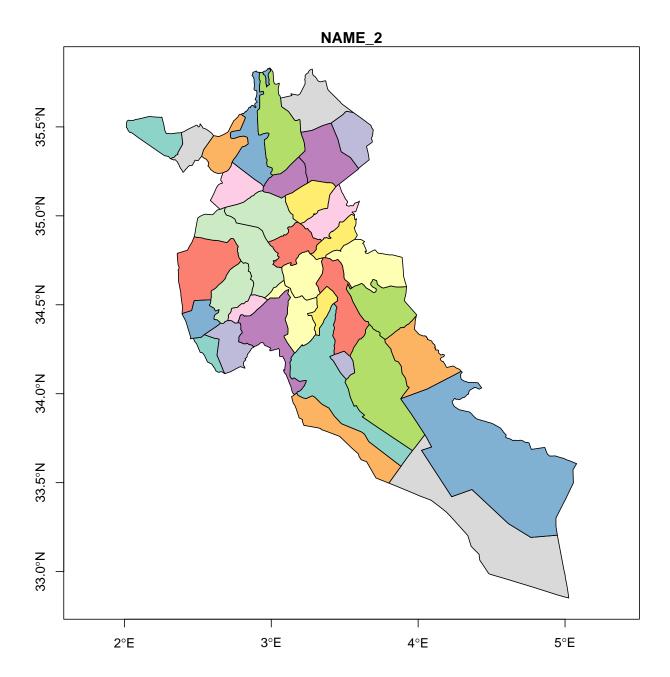
```
st_geometry(djelfa) %>%
   plot()
djelfa %>%
   select(NAME_2) %>%
   arrange(NAME_2) %>%
   slice(1:15) %>%
   plot(add = TRUE, col = 'lightgreen')
   title("wilaya de djelfa")
```

# wilaya de djelfa



# 4.3 wilaya de djelfa

plot(djelfa["NAME\_2"], axes = TRUE)

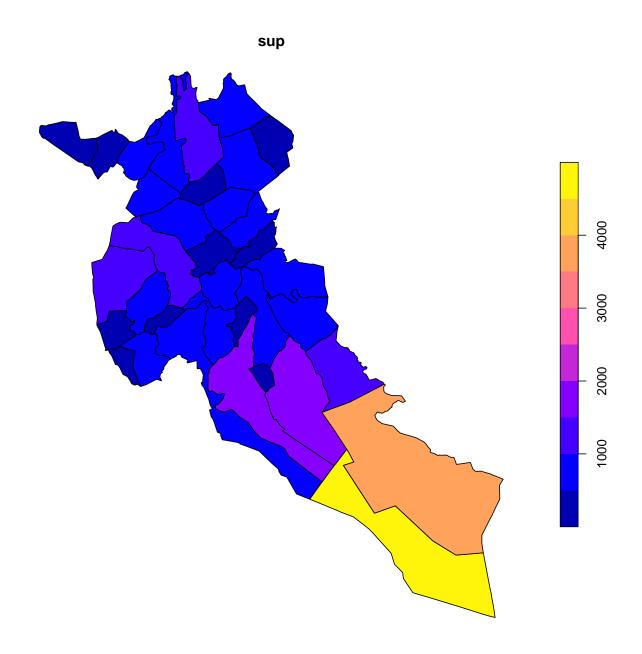


# 4.4 wilaya de djelfa

```
pop <- read.csv(file = "djelfa.csv")
pop_djelfa <- merge(x = djelfa, y = pop, by.x = "CC_2", by.y = "ID")</pre>
```

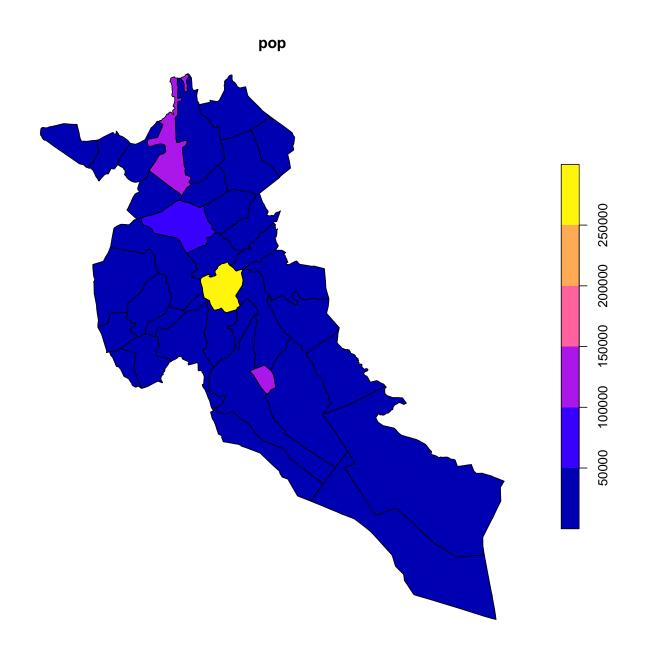
### 4.5 wilaya de djelfa sup

```
plot(pop_djelfa["sup"])
```



# 4.6 wilaya de djelfa pop

plot(pop\_djelfa["pop"])



# 5 mortalité hospitaliere

```
library(ggthemes)
#library(RColorBrewer) # ColorBrewer Palettes
#library(ggrepel) ## For displaying labels on ggplot2 object
```

### 5.1 Décès par wilayas

### 5.1.1 préprocessing data

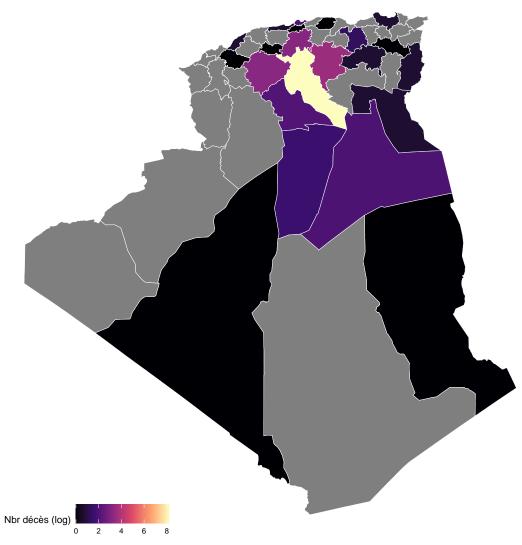
```
data %>%
  select(DINS,WILAYAR) %>%
```

```
filter(DINS >= dt1 & DINS >= dt2 ) %>%
group_by(WILAYAR) %>%
summarise(number_wil = n()) %>%
arrange(desc(number_wil)) %>%
mutate(CC_1=recode(WILAYAR,
                   "1000" = "1".
                   "2000" = "2",
                   "3000" = "3",
                   "4000" = "4",
                   "5000" = "5",
                  "6000" = "6",
                   "7000" = "7",
                  "8000" = "8",
                   "9000" = "9",
                  "10000" = "10",
                   "11000" = "11",
                  "12000" = "12",
                  "13000" = "13",
                  "14000" = "14",
                  "15000" = "15",
                   "16000" = "16".
                  "17000" = "17",
                  "18000" = "18",
                  "19000" = "19",
                   "20000" = "20",
                  "21000" = "21",
                  "22000" = "22",
                  "23000" = "23",
                   "24000" = "24"
                  "25000" = "25",
                   "26000" = "26",
                   "27000" = "27",
                   "28000" = "28",
                  "29000" = "29",
                   "30000" = "30",
                  "31000" = "31",
                  "32000" = "32",
                   "33000" = "33",
                   "34000" = "34",
                   "35000" = "35",
                  "36000" = "36",
                  "37000" = "37",
                  "38000" = "38",
                   "39000" = "39"
                  "40000" = "40",
                   "41000" = "41",
                   "42000" = "42",
                   "43000" = "43",
                  "44000" = "44",
                   "45000" = "45",
                   "46000" = "46",
                   "47000" = "47"
                   "48000" = "48"
```

```
))-> df
```

#### 5.1.2 display map

#### Répartition des décès hospitalier par wilayas Wilayas algerie année 2020



Source: Dr R.TIBA Praticien inspecteur santé publique DSP Wilaya de Djelfa

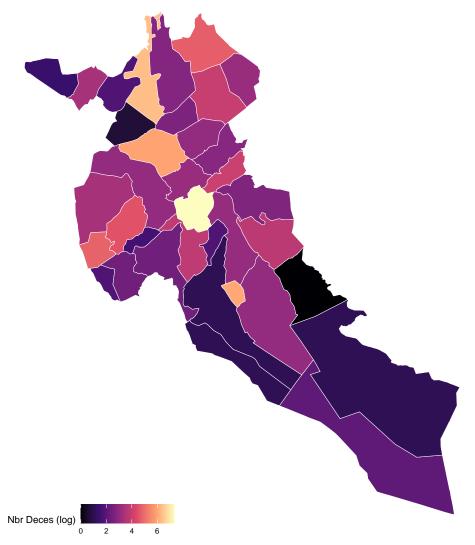
### 5.2 Décès par communes wilaya de Djelfa

#### 5.2.1 préprocessing data

```
"920" = "1726",#920 Charef
"923" = "1727",#923 Beni Yacoub
"924" = "1731",#924 Ain Oussera
"925" = "1721", #925 Guernini
"926" = "1719",#926 Sidi Ladjel
"927" = "1733",\#927\ Hassi\ Fedoul
"928" = "1711", #928 El Khemis
"929" = "1708",#929 Birine
"931" = "1732",#931 Benhar
"932" = "1720",#932 Had-Sahary
"933" = "1709",#933 Bouira Lahdab
"934" = "1735", #934 Ain Fekka
"935" = "1704", #935 Hassi Bahbah
"939" = "1728",#939 Zaafrane
"940" = "1716", #940 Hassi el Euch
"941" = "1705", #941 Ain Maabed
"942" = "1725", #942 Dar Chioukh
"946" = "1713",#946 MLiliha
"947" = "1712",#947 Sidi Baizid
"948" = "1717",#948 Messad
"951" = "1718", #951 Guettara
"952" = "1729",#952 Deldoul
"953" = "1706",#953 Sed Rahal
"954" = "1722",#954 Selmana
"956" = "1724",#956 Oum Laadham
"957" = "1702", #957 Mouadjebar
"958" = "1730",#958 Ain el Ibel
"962" = "1710",#962 Zaccar
"963" = "1715",#963 Douis
"964" = "1723",#964 Ain Chouhada
"965" = "1736", #965 Tadmit
"967" = "1707", #967 Faidh el Botma
"968" = "1734" #968 Amourah
))-> dfc
```

#### 5.2.2 display map

### Répartition des décès hospitalier par communes Communes Wilaya de djelfa année 2020



Source: Dr R.TIBA Praticien inspecteur santé publique DSP Wilaya de Djelfa