Dv assignment 2 vid

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Student Details

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Data Source

Aihw.gov.au. (2018). [online] Available at: https://www.aihw.gov.au/getmedia/d9a7dae0-7a96-4bb8-804a-2d7c9c60a763/State-Territory-Dementia-2011-2020.xls.aspx.

Video Presentation URL

https://youtu.be/DOjl9FZYpTI

```
#Read packages
library(colourpicker)
library(ggplot2)
library(dplyr)
library(rgeos)
library(maptools)
library(ggmap)
library(broom)
library(rgdal)
library(sf)
library(readr)

#Reading shape file
#states <-readShapeSpatial("C:\\Users\\satis\\Desktop\\Dv ass 2.1\\Ashmore_and_Cartier_Islands_AL4-AL47

states<-rgdal::readOGR("C:\\Users\\satis\\Desktop\\Dv ass 2.1\\Ashmore_and_Cartier_Islands_AL4-AL476")#
```

```
## OGR data source with driver: ESRI Shapefile
## Source: "C:\Users\satis\Desktop\Dv ass 2.1\Ashmore_and_Cartier_Islands_AL4-AL476", layer: "Ashmore ar
## with 15 features
## It has 14 fields
```

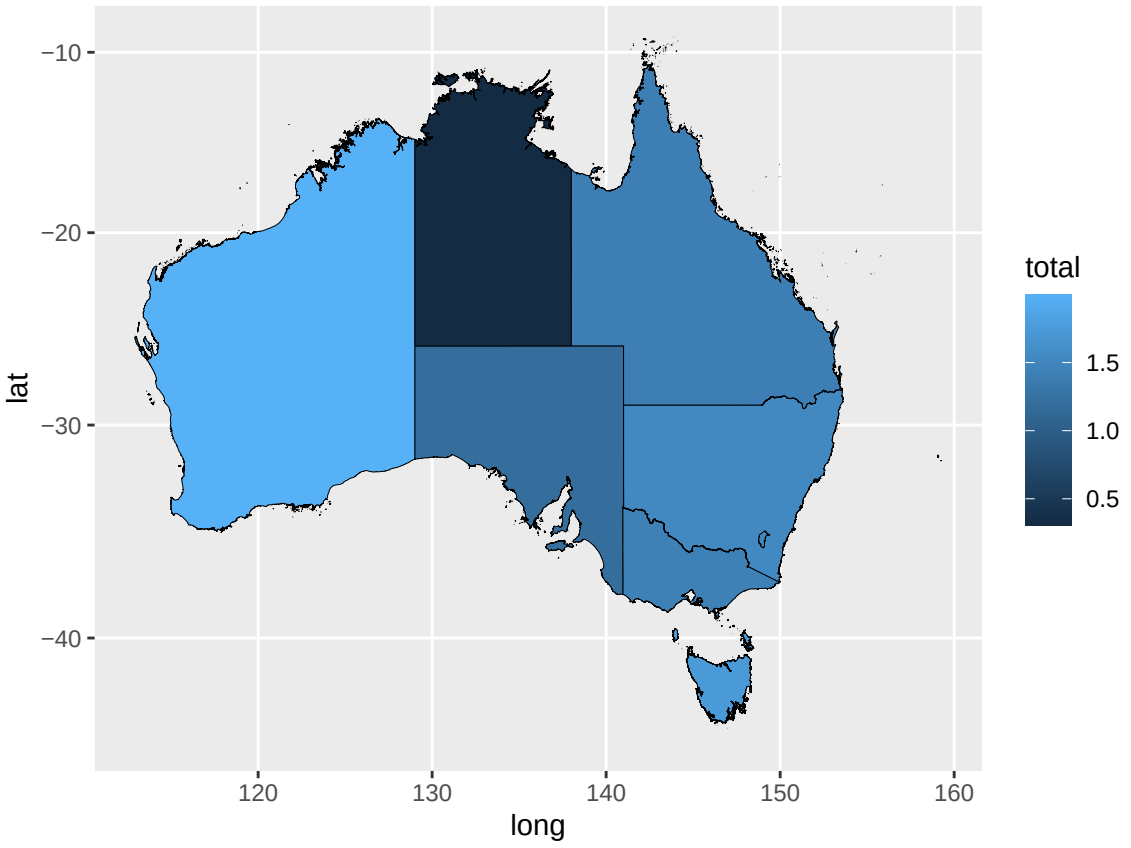
```
class(states)
```

```
## [1] "SpatialPolygonsDataFrame"
## attr(,"package")
## [1] "sp"
```

```
names(states)
```

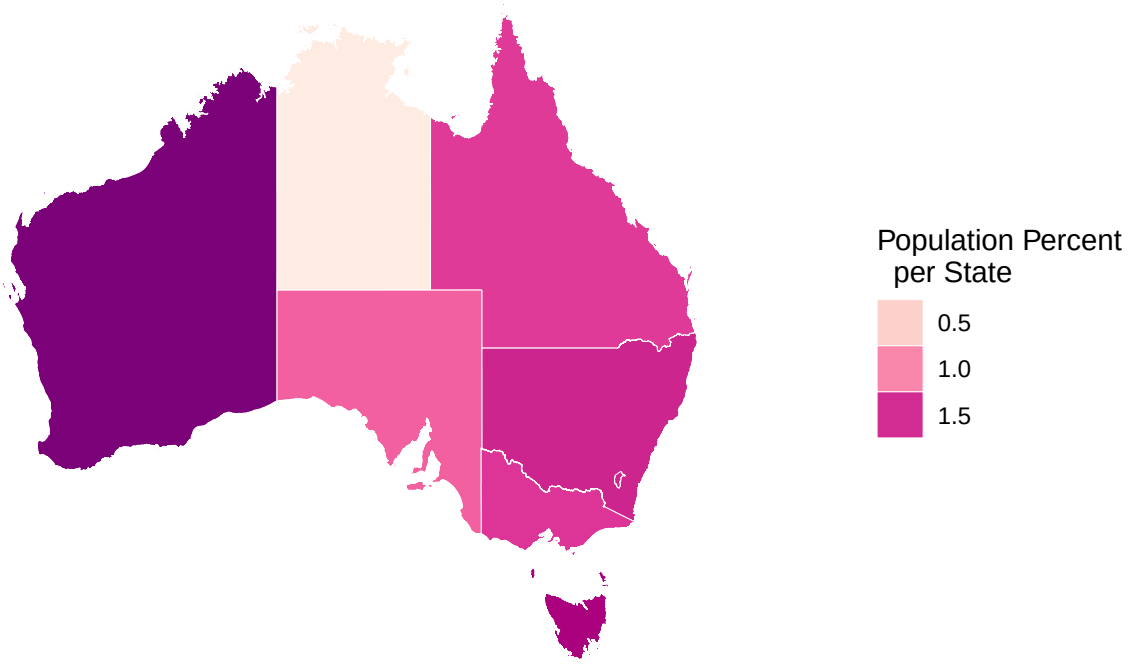
```
##  [1] "id"         "country"    "name"       "enname"     "locname"
##  [6] "offname"    "boundary"   "adminlevel" "wikidata"   "wikimedia"
## [11] "timestamp"  "note"       "rpath"      "ISO3166_2"
```

```
#reading data
popu<- read.csv("State-Territory-Dementia-2012,14,16,18,20 male1.csv")

colnames(popu)<-c("states", "total", "male", "female")


#tidying the shape file
v123 <- tidy(states, region="name")

#removing the unwanted states and territories
v321<-v123[v123$lat >= -54.35660 &
           v123$group!="Tasmania.501",]
v321<-v321[v321$id!="Ashmore and Cartier Islands" &
           v321$id!="Christmas Island" &
           v321$id!="Cocos (Keeling) Islands" &
           v321$id!="Heard Island and McDonald Islands" &
           v321$id!="Jervis Bay Territory" &
           v321$id!="Norfolk Island",]
#creating column with same names to merge data
v321$states<-v321$id
#merging the files
merge.lga.profiles4<-merge(v321, popu , by="states", all.x=TRUE)


#ordering the data
choro.data.frame2<-merge.lga.profiles4[order(merge.lga.profiles4$order), ]

#Plot
pop12 <- ggplot(data = choro.data.frame2,
            aes(x = long, y = lat, group = group,
                fill = total))
pop12 + geom_polygon(color = "black", size = 0.05) +
  coord_map()
```

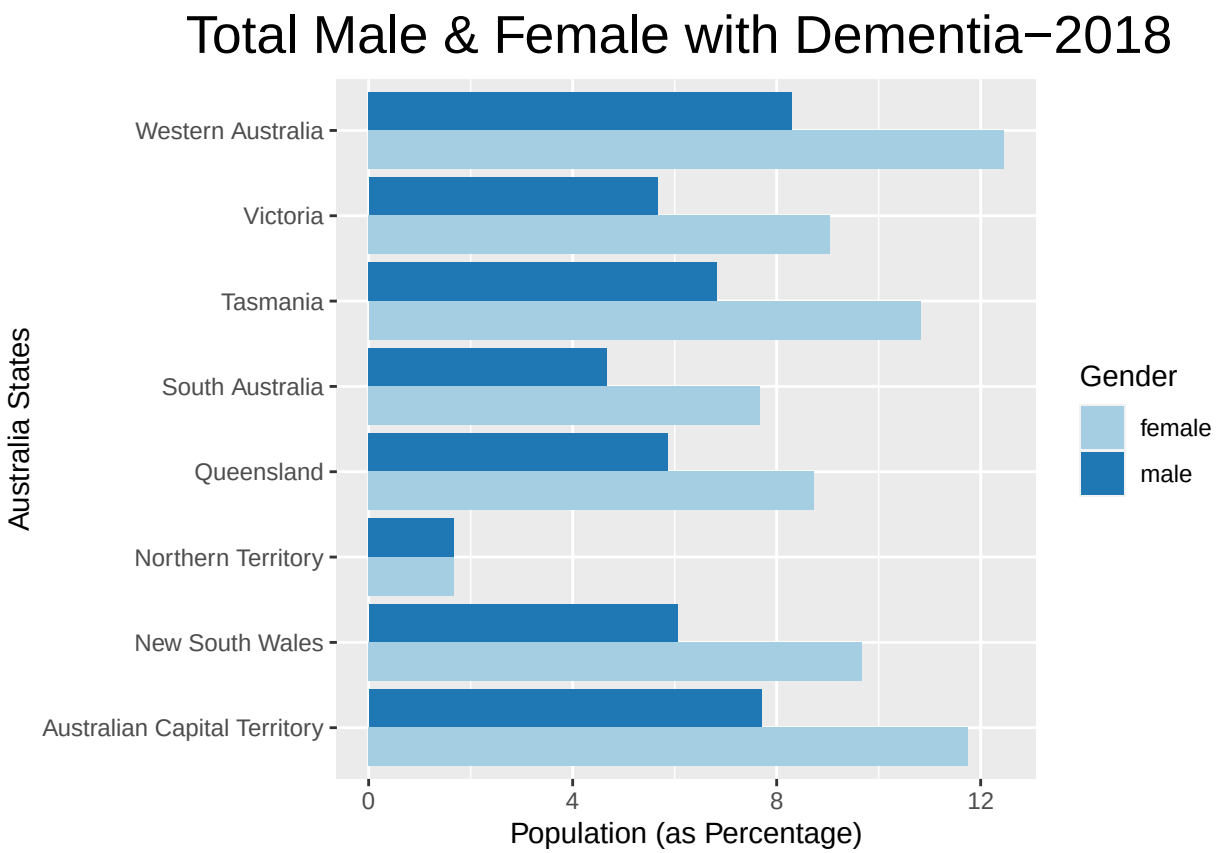



```
pop21<-pop12 + geom_polygon(color = "white", size = 0.00005) +
  coord_map() +
  scale_fill_distiller(name = "Population Percent
  per State",
                       guide = "legend",
                       palette = "RdPu", direction = 1) +
  theme_minimal() + theme(axis.title.x = element_blank(),
                          axis.title.y = element_blank(),
                          axis.text.x  = element_blank(),
                          axis.text.y  = element_blank(),
                          panel.grid  = element_blank()) +
  labs(title="Australia States with Dementia-2018")+
  theme(plot.title = element_text(hjust = 0.5,size = 25))

pop21
```

stralia States with Dementia−2018




```
#BAR PLOT

#Data <- read.csv("C:\\Users\\satis\\Desktop\\Dv\\Assignment 2\\State-Territory-Dementia-2012,14,16,18,

Data <- read.csv("State-Territory-Dementia-2012,14,16,18,20 bo.csv")

#renaming the columns
colnames(Data)<-c("Australia States","Gender","Population (as Percentage)")

#converting as factor
Data$`Australia States` <- as.factor(Data$`Australia States`)
Data$Gender <- as.factor(Data$Gender)

#plot
u<-ggplot(Data, aes(`Australia States`,`Population (as Percentage)` , fill = Gender)) +
  geom_bar(stat="identity",position= "dodge") +
  coord_flip()+
  scale_fill_brewer(palette = "Paired")
u +  labs(title="Total Male & Female with Dementia-2018 ")+
  theme(plot.title = element_text(hjust = 0.5,size = 20))
```


Total Male & Female with Dementia−2018
Australia States
Western Australia
Victoria
Tasmania
South Australia
Queensland
Northern Territory
New South Wales
Australian Capital Territory
0
4
8
12
Population (as Percentage)
Gender
female
male