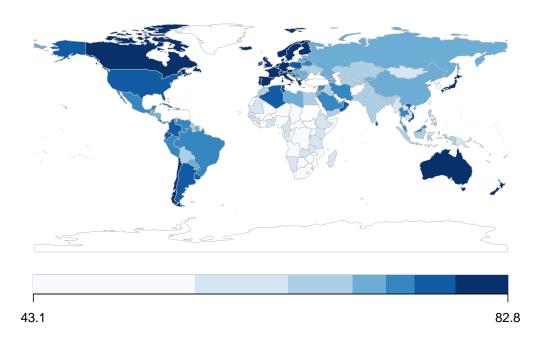
# more heatmaps

#### 2025-05-03

```
{r} # # Ensure required packages are loaded # library(ggplot2)
# library(dplyr) # library(sf) # library(rnaturalearth) # library(rnaturalearth)
# # # Load dataset (if not already loaded) # data <- read.csv('/Users/dh
25/Linear Models/4355 Project/Life-Expectancy-Data-Updated.csv')
# # # Load world map # world <- ne_countries(scale = "medium",
returnclass = "sf") # # # Merge world map with your dataset
by country name # world_data <- world %>% # left_join(data,
by = c("name" = "Country")) # # # Heatmap 1: Life Expectancy #
ggplot(world_data) + # geom_sf(aes(fill = Life_expectancy))
       scale_fill_viridis_c(option = "plasma", na.value = "lightgrey")
       labs(title = "Life Expectancy by Country", fill = "Life
Expectancy") + # theme_minimal() # #
library(rworldmap)
## Loading required package: sp
## ### Welcome to rworldmap ###
## For a short introduction type : vignette('rworldmap')
library(RColorBrewer)
# Load dataset
data <- read.csv('/Users/dhanish/College/Spring 25/Linear Models/4355 Project/Life-Expectancy-Data-Upda
joinedData <- joinCountryData2Map(data, joinCode = "NAME", nameJoinColumn = "Country")</pre>
## 2768 codes from your data successfully matched countries in the map
## 96 codes from your data failed to match with a country code in the map
## 70 codes from the map weren't represented in your data
# 1. Life Expectancy - Blue
mapCountryData(joinedData,
            nameColumnToPlot = "Life_expectancy",
            mapTitle = "Life Expectancy by Country",
            colourPalette = colorRampPalette(brewer.pal(9, "Blues"))(100))
```

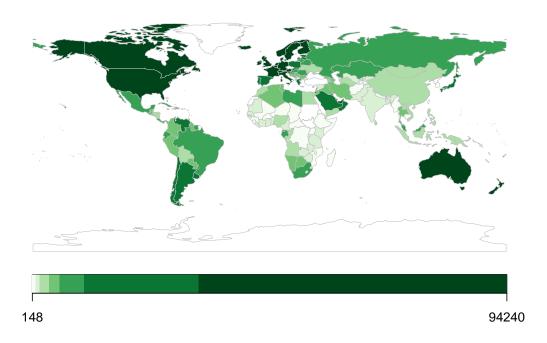
## Warning in rwmGetColours(colourPalette, numColours): 100 colours specified and
## 7 required, using interpolation to calculate colours

### **Life Expectancy by Country**



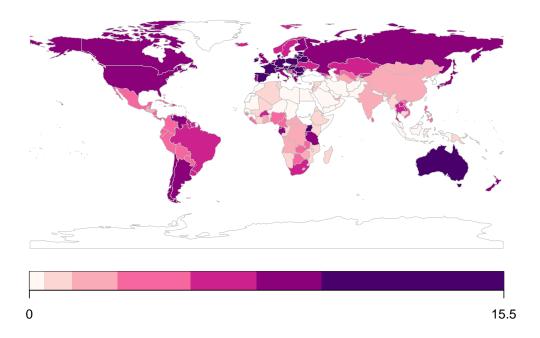
## Warning in rwmGetColours(colourPalette, numColours): 100 colours specified and
## 7 required, using interpolation to calculate colours

## **GDP** per Capita by Country



## Warning in rwmGetColours(colourPalette, numColours): 100 colours specified and ## 7 required, using interpolation to calculate colours

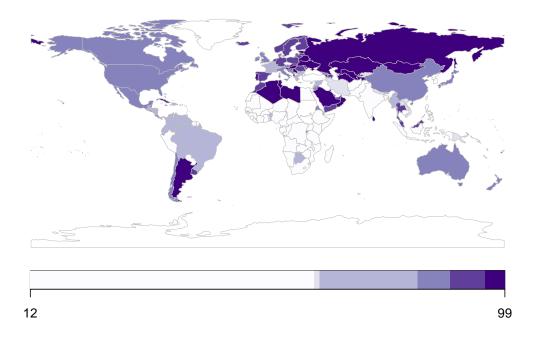
#### **Alcohol Consumption by Country**



## You asked for 7 quantiles, only 6 could be created in quantiles classification

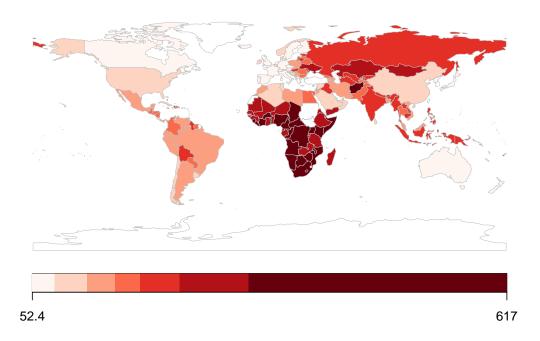
## Warning in rwmGetColours(colourPalette, numColours): 100 colours specified and
## 6 required, using interpolation to calculate colours

#### **Measles Cases by Country**



## Warning in rwmGetColours(colourPalette, numColours): 100 colours specified and
## 7 required, using interpolation to calculate colours

### **Adult Mortality by Country**



## Warning in rwmGetColours(colourPalette, numColours): 100 colours specified and ## 7 required, using interpolation to calculate colours

# **BMI** by Country

