R Script

Assignment 4.2: Scatterplots, Bubble Charts, DensityMaps/Plots

DSC640

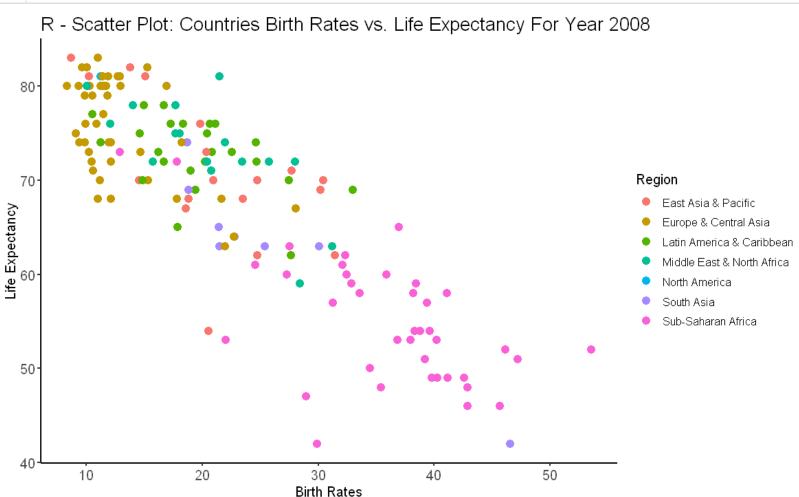
Taniya Adhikari

```
In [15]: | 1 library(ggplot2)
2 library(readx1)
3 library(scales)
4 library(plyr)
5 library(dplyr)
6 library(ggrepel)
7 library(RColorBrewer)
In [3]: | 1 demographics <- read.csv("sample.csv")
2 head(demographics)

X country year expectancy birthrates Country.Code gdp Region
```

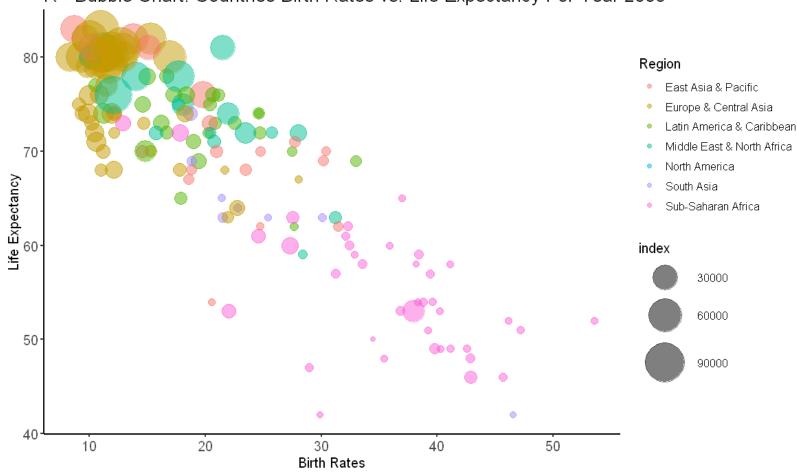
X	country	year	expectancy	birthrates	Country.Code	gdp	Region
0	Afghanistan	2008	42	46.538	AFG	364.6635	South Asia
1	Albania	2008	73	14.649	ALB	4370.5399	Europe & Central Asia
2	Algeria	2008	71	20.759	DZA	4923.6316	Middle East & North Africa
3	Angola	2008	46	42.875	AGO	4080.9410	Sub-Saharan Africa
5	Argentina	2008	76	17.269	ARG	9020.8733	Latin America & Caribbean
6	Armenia	2008	70	15.299	ARM	4010.8614	Europe & Central Asia

R - Scatter Plot



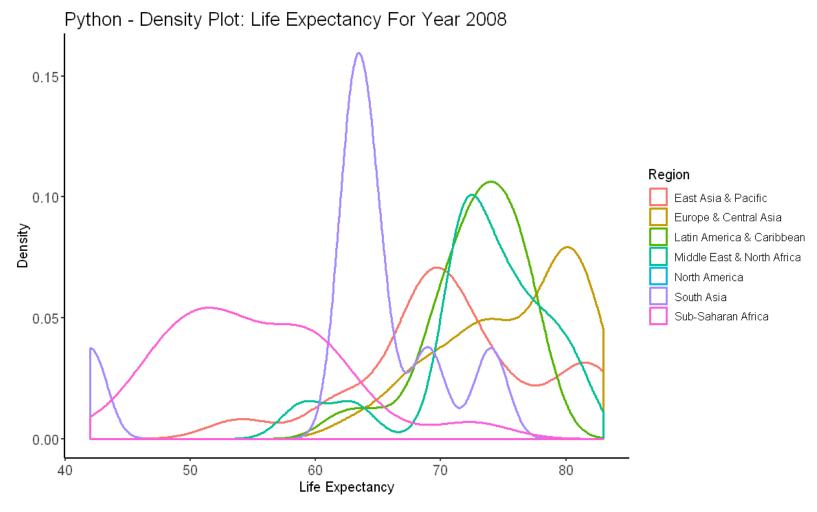
```
In [12]:
          H
              1 options(repr.plot.width =10, repr.plot.height =6)
                 ggplot(demographics, aes(x=birthrates, y=expectancy, size=gdp)) +
                   geom point(aes(color=Region), alpha=0.5) +
                   scale size(range = c(2,18), name="index") +
                 theme classic() +
                   theme(text = element text(family="sans", size =12, color="black"), element line(size =.7),
                          plot.title = element_text(size = 16), axis.text.x = element_text(size=12),
               8
                          axis.text.y = element text(size=12))+
                ylab("Life Expectancy") +
                xlab("Birth Rates") +
             11
                   ggtitle("R - Bubble Chart: Countries Birth Rates vs. Life Expectancy For Year 2008")
             12
```

R - Bubble Chart: Countries Birth Rates vs. Life Expectancy For Year 2008



Warning message:

"Groups with fewer than two data points have been dropped."



In []: 🔰 1