Exercise 2: R Markdown for Gapminder Exploration

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<pre>suppressPackageStartupMessages(library(gapminder)) suppressPackageStartupMessages(library(tidyverse)) suppressPackageStartupMessages(library(dplyr)) suppressPackageStartupMessages(library(ggplot2))</pre>	

Data on Gapminder

In this document, we will explore basic R functions on the gapminder data.

Population of Countries

Here we show that gapminder has information on life expectancy, population, and GDP per capita of 142 countries from 1952

Summary of Gapminder Data

We summarize the gapminder data and show that life expectancy, populations and GDP per capita were collected between 1952 and 2007 in 5 continents.

```
summary(gapminder)
```

```
##
           country
                          continent
                                                         lifeExp
                                            year
##
    Afghanistan: 12
                       Africa:624
                                                              :23.60
                                      Min.
                                              :1952
                                                      Min.
##
   Albania
                  12
                       Americas:300
                                      1st Qu.:1966
                                                      1st Qu.:48.20
##
   Algeria
                  12
                       Asia
                                :396
                                      Median:1980
                                                      Median :60.71
##
    Angola
                  12
                       Europe :360
                                      Mean
                                              :1980
                                                      Mean
                                                             :59.47
##
    Argentina :
                  12
                       Oceania: 24
                                       3rd Qu.:1993
                                                      3rd Qu.:70.85
##
    Australia
                                       Max.
                                              :2007
                                                      Max.
                                                             :82.60
              :
                  12
    (Other)
               :1632
##
##
                          gdpPercap
         pop
##
           :6.001e+04
                                    241.2
   Min.
                        Min.
                              :
   1st Qu.:2.794e+06
                        1st Qu.:
                                  1202.1
##
   Median :7.024e+06
                        Median :
                                  3531.8
##
    Mean
           :2.960e+07
                        Mean
                               :
                                  7215.3
##
    3rd Qu.:1.959e+07
                        3rd Qu.:
                                  9325.5
##
    Max.
           :1.319e+09
                                :113523.1
                        Max.
##
```

Number of Countries per continent in 1952

Here we show the number of countries per continent that data was collected from when the study started in 1952.

```
gapminder %>%
  arrange(country)%>%
  filter(year == 1952) %>%
  mutate(continent = fct_infreq(continent)) %>%
  ggplot(aes(continent)) +
  geom_bar(aes(colour=4,fill=4)) +
  theme_light()
```

