Homework 1_Gapminder Exploration Presentation

A basic look at the gapminder rows and columns

```
gpmd <- gapminder
ncol(gpmd) # number of columns

## [1] 6

nrow(gpmd) # number of rows

## [1] 1704

colnames(gpmd) # column names

## [1] "country" "continent" "year" "lifeExp" "pop" "gdpPercap"</pre>
```

Let's learn more about the structure of the data

The range of years included in the data are:

range(gpmd\$year)

[1] 1952 2007

How many countries are there in the dataset:

sum(nlevels(gpmd\$country))

[1] 142

Let's explore lifeexpectancies from the dataset a bit:

What are the ranges of life expectancies?

range(gpmd\$lifeExp)

[1] 23.599 82.603

Which countries have the highest and lowest life-expectancies?

```
gpmd$country[max(gpmd$lifeExp)] #highest

## [1] Austria
## 142 Levels: Afghanistan Albania Algeria Angola Argentina ... Zimbal

gpmd$country[min(gpmd$lifeExp)] #lowest

## [1] Albania
## 142 Levels: Afghanistan Albania Algeria Angola Argentina ... Zimbal
```

Average Life expectancy per continent:

aggregate(lifeExp~continent,gpmd,mean) #includes all years

Let's learn about the median GDP per capita for each continent

aggregate(gdpPercap~continent,gpmd,median) #includes all years