HW01 gapminder Presentation

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Explore gapminder

Summary statistics for the dataset:

```
##       country        continent       year        lif
##  Afghanistan:  12   Africa  :624   Min.   :1952   Min.
##  Albania    :  12   Americas:300   1st Qu.:1966   1st Qu
##  Algeria    :  12   Asia    :396   Median :1980   Median
##  Angola     :  12   Europe  :360   Mean   :1980   Mean
##  Argentina  :  12   Oceania : 24   3rd Qu.:1993   3rd Qu
##  Australia  :  12                  Max.   :2007   Max.
##  (Other)    :1632
##       pop               gdpPercap
##  Min.   :6.001e+04   Min.   :    241.2
##  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   Max.   :113523.1
##
```

The dataset contains

1704 rows and 6 columns.

All the variables we have:

`country`, `continent`, `year` rows and `lifeExp`, `pop`, `gdpPercap`

The number of unique countries in the dataset is 142.

The number of years in the dataset is 12

The mean life expectancy over all countries for all years is 59.4744394.

The highest life expectancy in all the countries is Japan.

The mean population over all countries for all years is \ensuremath{2.9601212\times 10^{7}}.

The highest life expectancy in all the countries is China.

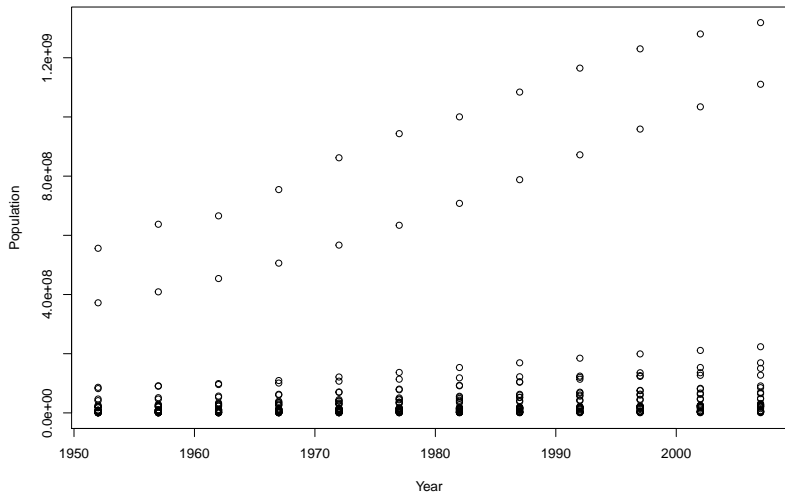The mean GDP per capita over all countries for all years is 7215.3270812.

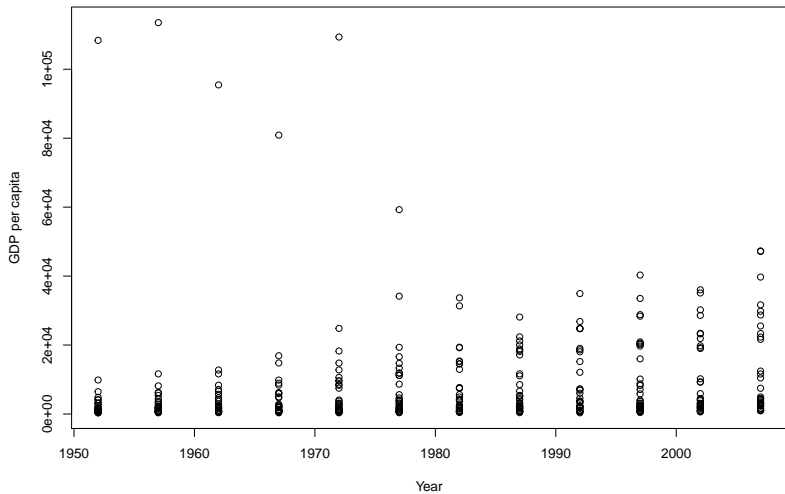The highest GDP per capita in all the countries is Kuwait.

Asia

Now let's check the `gapminder` data for Asia.

Life expectancy in Asia by year

Population in Asia by year

GDP per capita in Asia by year

GDP per capita

Year

The highest life expectancy in Asia is Japan.

The highest population in Asia is China.

The highest GDP per capita in Asia is Kuwait.

Summary statistics for Asia:

▶ population:

```
##       Min.   1st Qu.    Median      Mean   3rd Qu.         M
## 1.204e+05 3.844e+06 1.453e+07 7.704e+07 4.630e+07 1.319e
```

▶ life expectancy:

```
##    Min. 1st Qu.  Median    Mean 3rd Qu.    Max.
##   28.80   51.43   61.79   60.06   69.51   82.60
```

▶ GDP per capita:

```
##    Min. 1st Qu.  Median    Mean 3rd Qu.    Max.
##     331    1057    2647    7902    8549  113523
```