

HW 1 - R Markdown for Gapminder Exploration - slides

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A look at gapminder

This is a summary of the data:

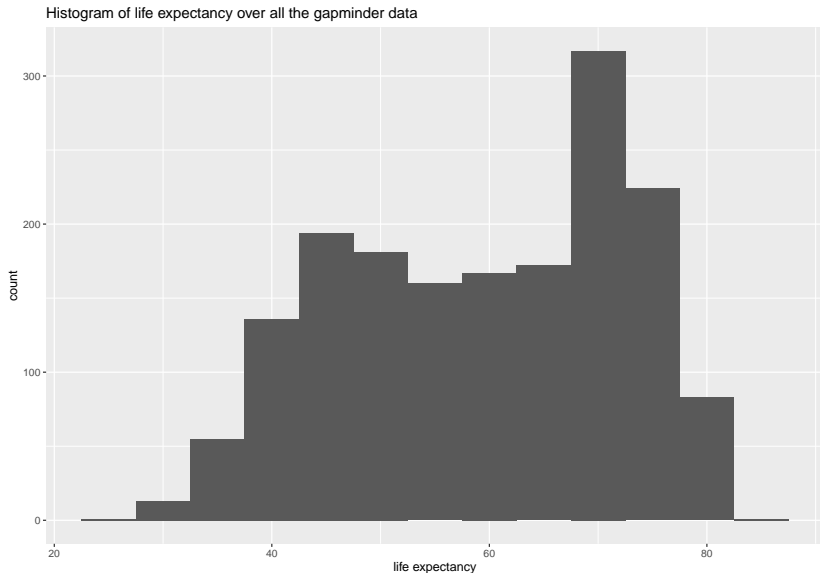
##	country	continent	year	lit
##	Afghanistan: 12	Africa :624	Min. :1952	Min.
##	Albania : 12	Americas:300	1st Qu.:1966	1st Qu
##	Algeria : 12	Asia :396	Median :1980	Median
##	Angola : 12	Europe :360	Mean :1980	Mean
##	Argentina : 12	Oceania : 24	3rd Qu.:1993	3rd Qu
##	Australia : 12		Max. :2007	Max.
##	(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		
##				

What variables do we have?

```
## [1] "country"    "continent"  "year"
```

```
## [1] "lifeExp"    "pop"        "gdpPercap"
```

Now looking closer at life expectancy:



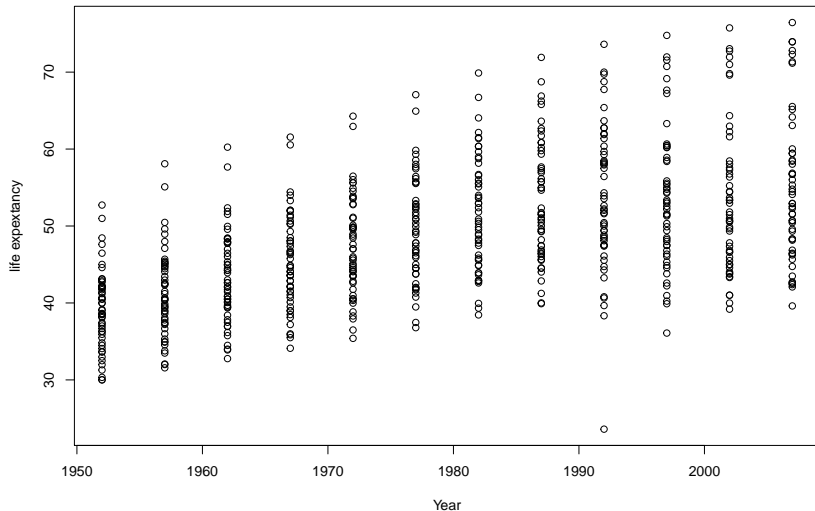
This is the mean over all countries for all years:

```
## [1] 59.47444
```

Africa

Now we'll look briefly at gapminder data for Africa.

Life expectancy in Africa by year



These are the *summary statistics* for Africa:

population:

##	Min.	1st Qu.	Median	Mean	3rd Qu.	M
##	60011	1342075	4579311	9916003	10801490	135031

life expectancy:

##	Min.	1st Qu.	Median	Mean	3rd Qu.	Max.
##	23.60	42.37	47.79	48.87	54.41	76.44

GDP per capita:

##	Min.	1st Qu.	Median	Mean	3rd Qu.	Max.
##	241.2	761.2	1192.1	2193.8	2377.4	21951.2