

Life Expectancy and GDP

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Canada

Figure 1 plots life expectancy in Canada between 1952 and 1967

Figure 1: Life expectancy in Canada

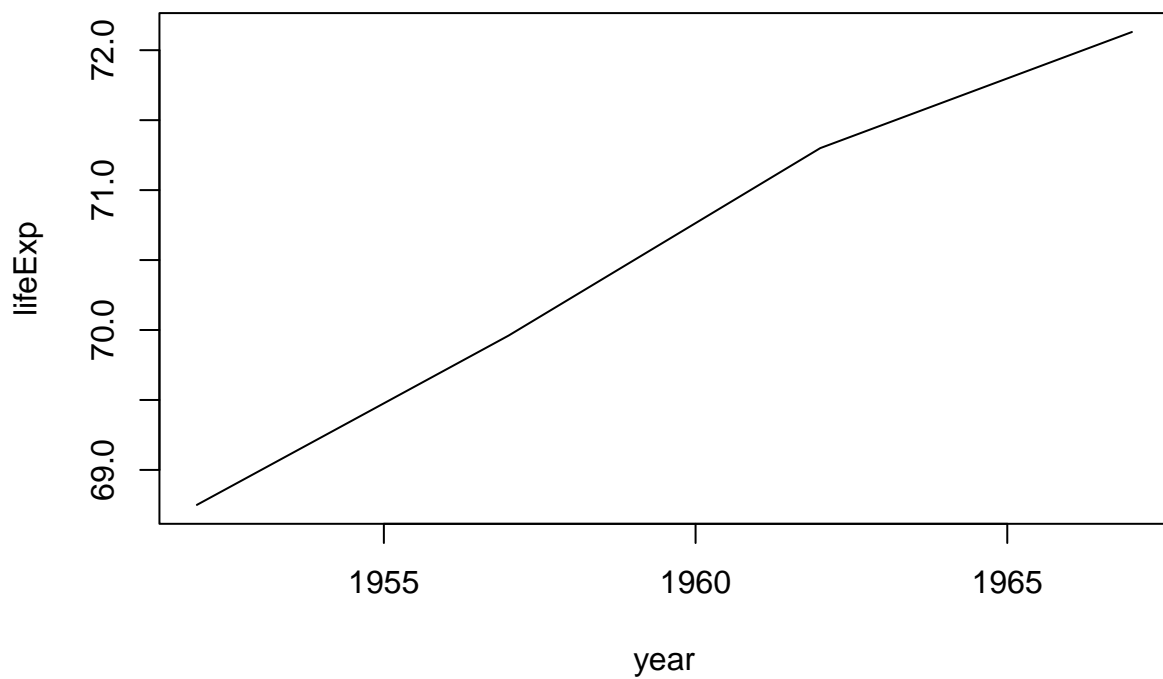
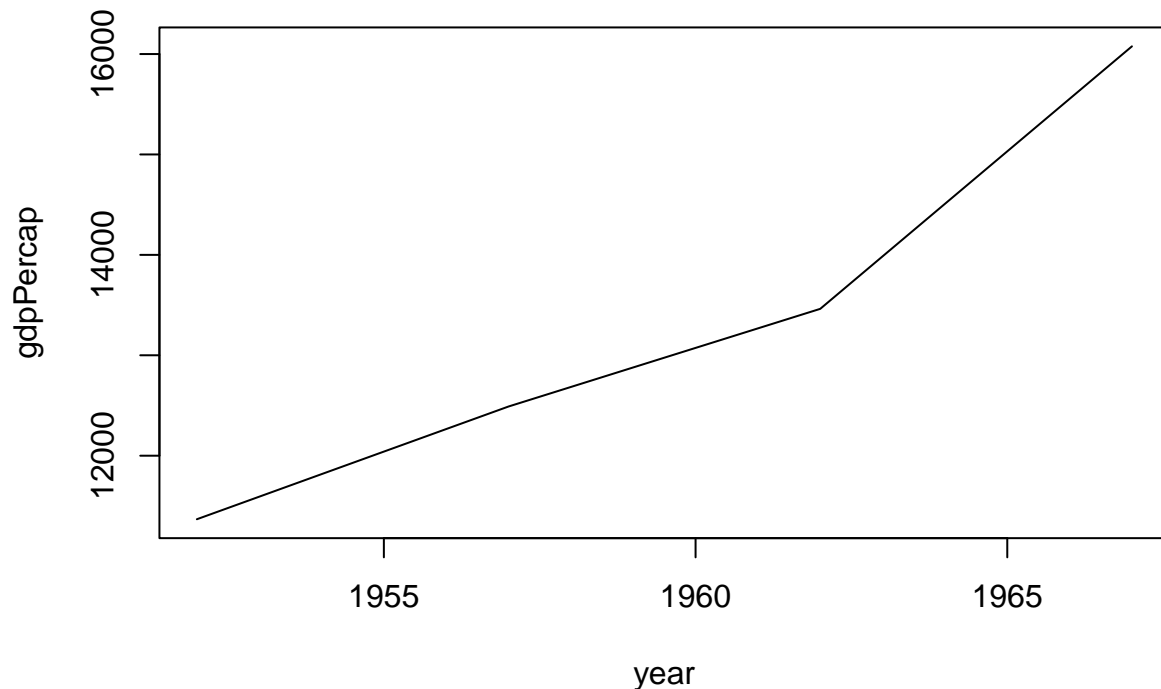


Figure 2 shows GDP per capita over time for Canada.

Figure 2: Per Capita GDP in Canada



Life Expectancy and GDP

Now let's look at whether GDP per capita leads to higher life expectancy.

```
##
## Call:
## lm(formula = total$lifeExp ~ total$gdpPercap)
##
## Residuals:
##      Min       1Q   Median       3Q      Max
## -47.936  -9.103  -1.796   11.651   18.706
##
## Coefficients:
##              Estimate Std. Error t value      Pr(>|t|)
## (Intercept)  50.22470541  0.53954650  93.087 <0.0000000000000002 ***
## total$gdpPercap  0.00049104  0.00005346   9.185 <0.0000000000000002 ***
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 11.47 on 566 degrees of freedom
## Multiple R-squared:  0.1297, Adjusted R-squared:  0.1282
## F-statistic: 84.37 on 1 and 566 DF, p-value: < 0.00000000000000022
```

The coefficient on GDP per capita is statistically significant.