

STA108_TermProjectEdits

Gabriel Jones

2023-11-23

```
##
## Attaching package: 'dplyr'

## The following objects are masked from 'package:stats':
##
##   filter, lag

## The following objects are masked from 'package:base':
##
##   intersect, setdiff, setequal, union

##
## Attaching package: 'MASS'

## The following object is masked from 'package:dplyr':
##
##   select

## Warning: package 'leaps' was built under R version 4.3.2
```

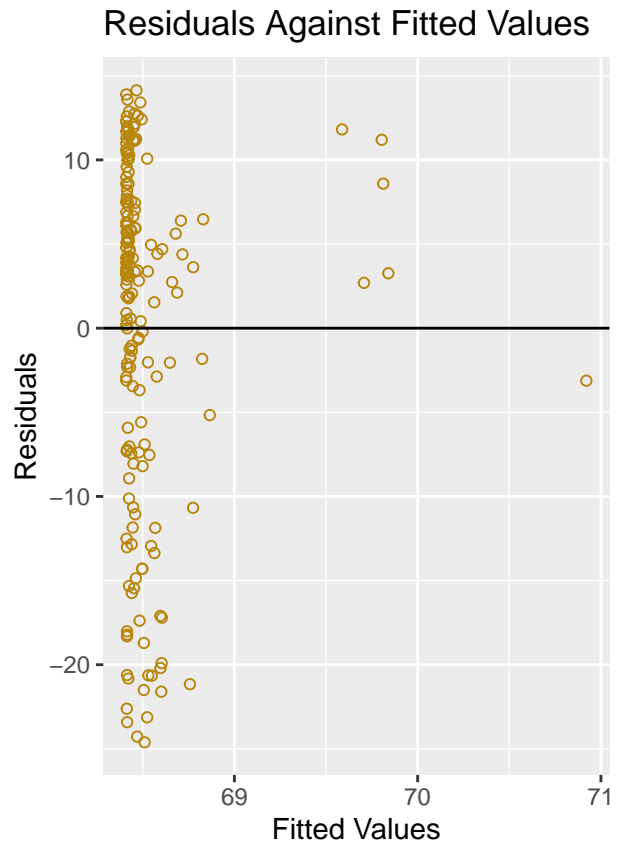
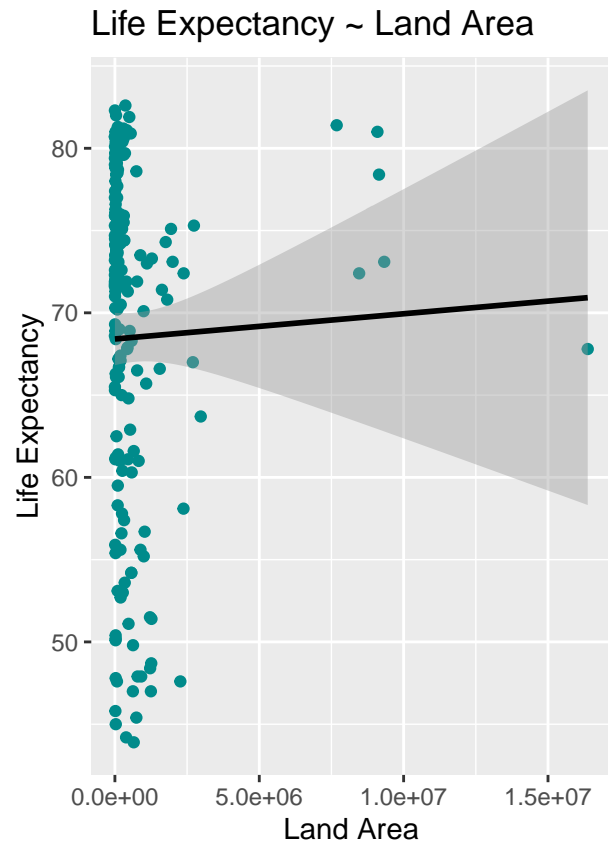
Single Linear Regression Models

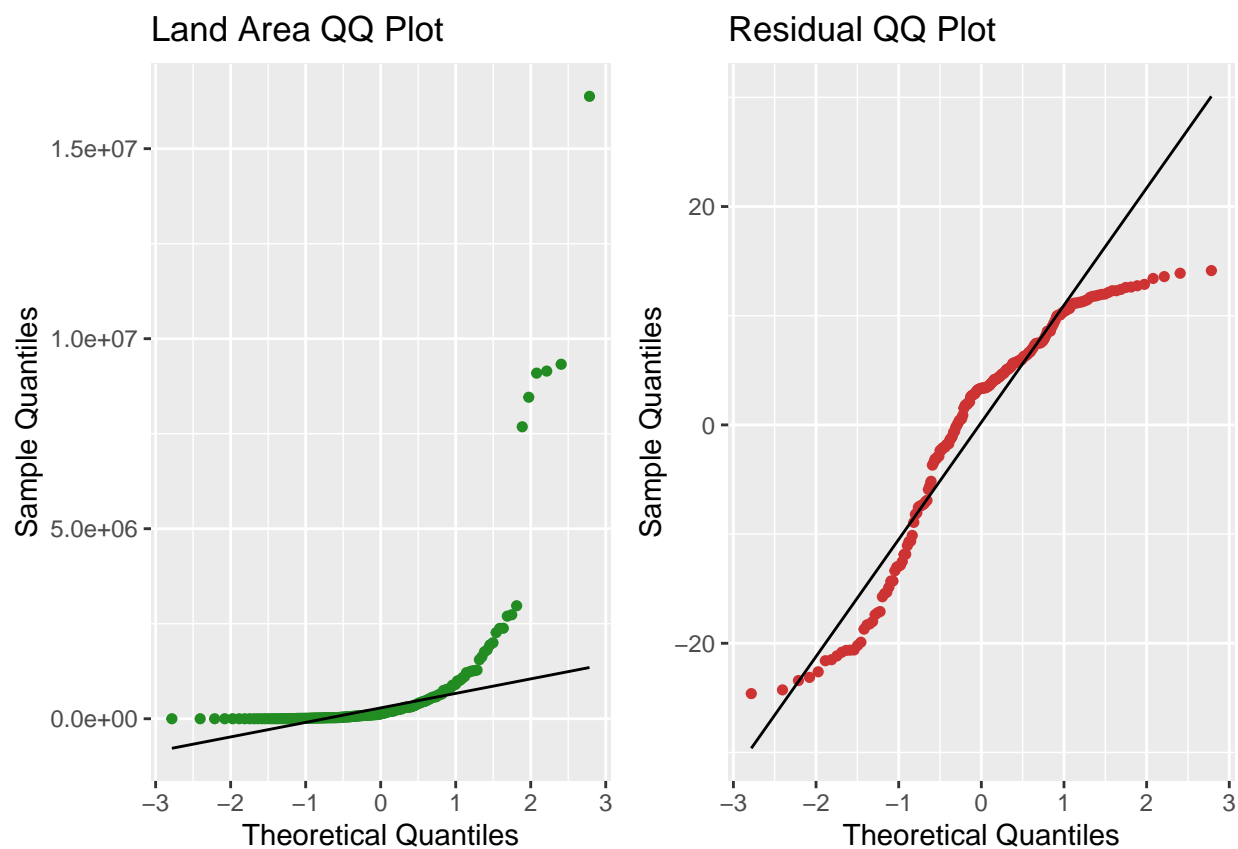
Life Expectancy ~ Land Area

Table 1: Life Expectancy ~ Land Area

	Estimate	Std. Error	t value	Pr(> t)
(Intercept)	68.4102866	0.8068269	84.789303	0.0000000
Land Area	0.0000002	0.0000004	0.379057	0.7050826

```
## Saving 6.5 x 4.5 in image
## 'geom_smooth()' using formula = 'y ~ x'
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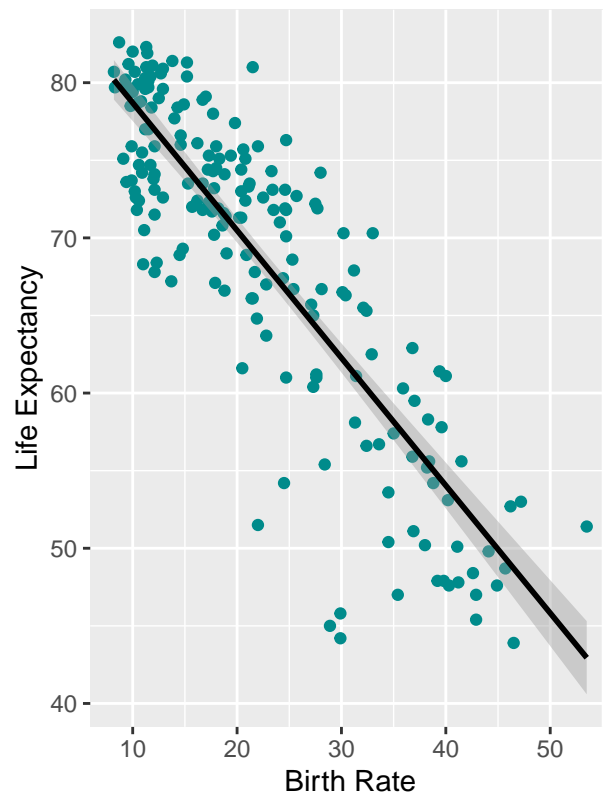
Life Expectancy ~ Birth Rate

Table 2: Life Expectancy ~ Birth Rate

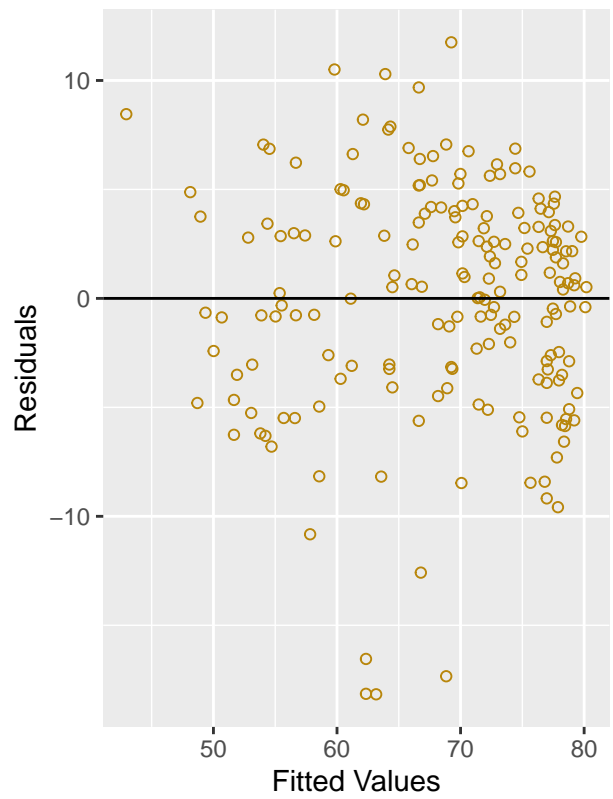
	Estimate	Std. Error	t value	Pr(> t)
(Intercept)	86.9231381	0.9012399	96.44839	0
Birth Rate	-0.8219937	0.0363068	-22.64021	0

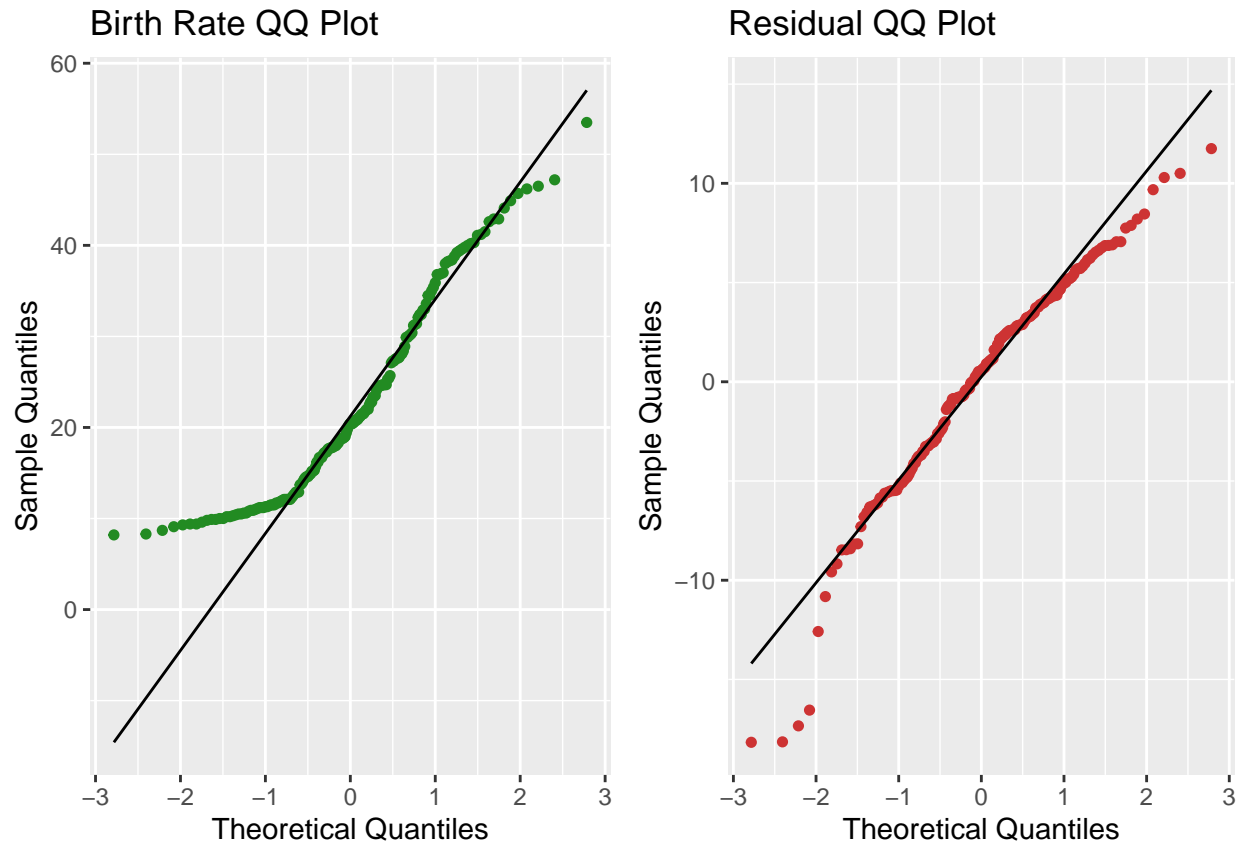
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Life Expectancy ~ Birth Rate



Residuals Against Fitted Values



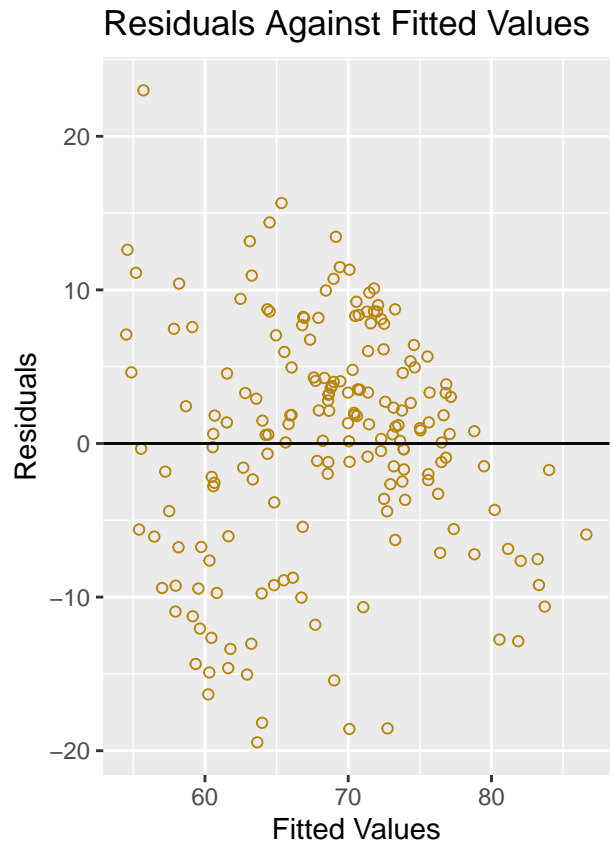
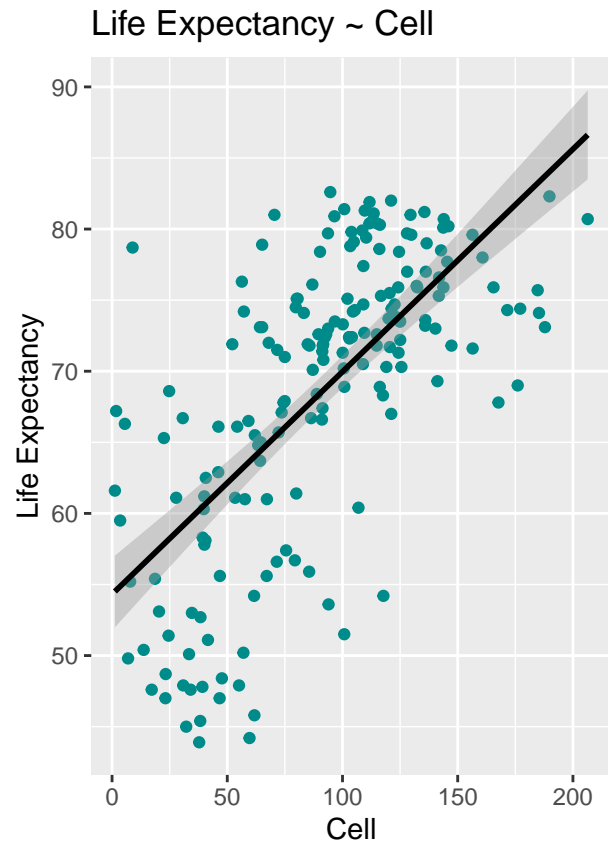


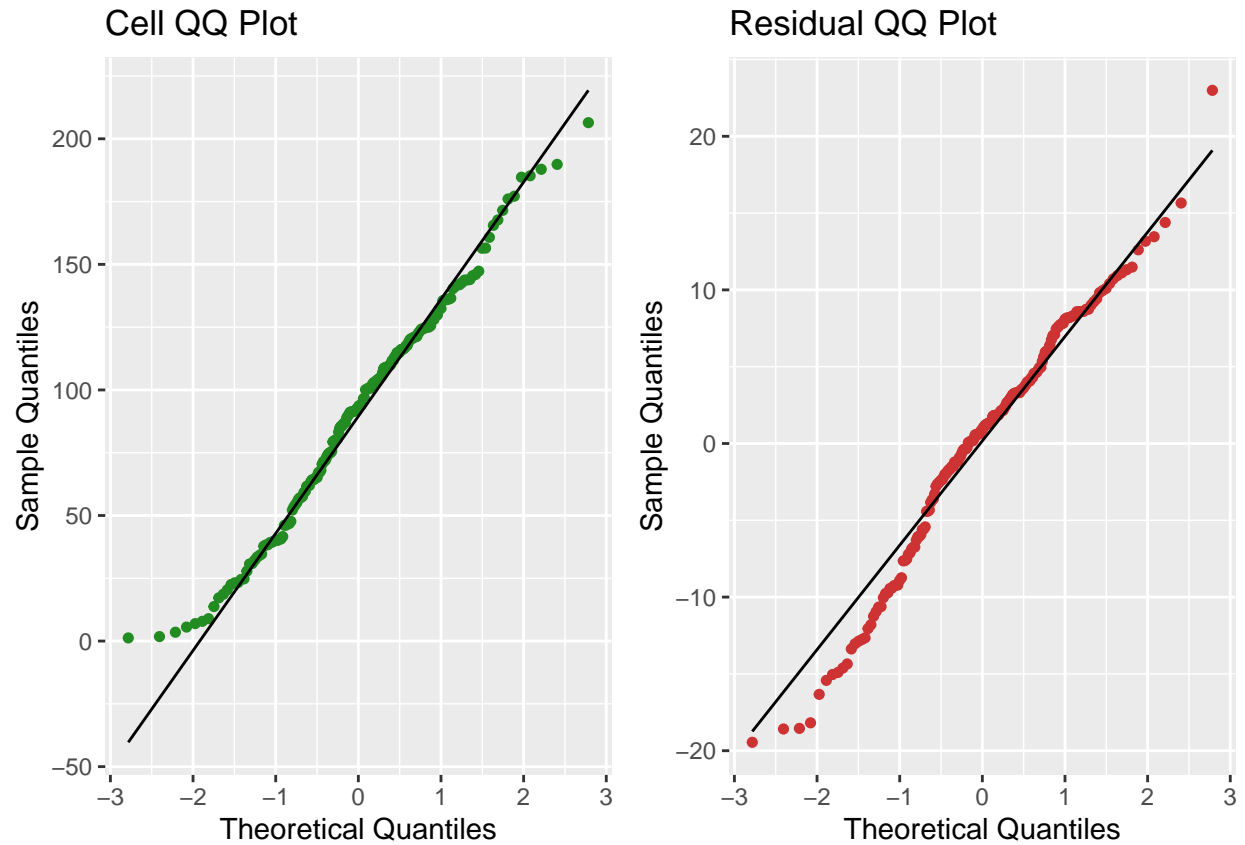
Life Expectancy ~ Cell

Table 3: Life Expectancy ~ Cell

	Estimate	Std. Error	t value	Pr(> t)
(Intercept)	54.3145708	1.2926162	42.01910	0
Cell	0.1565293	0.0128266	12.20351	0

```
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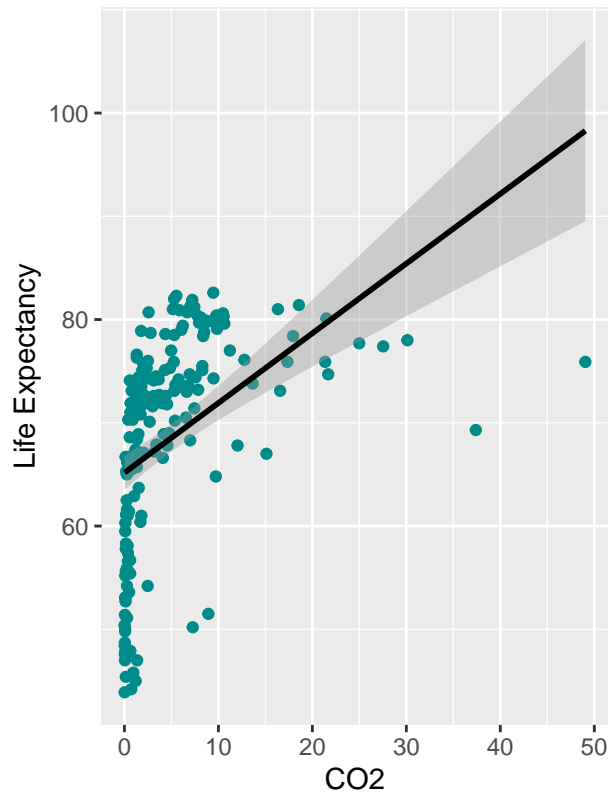
Life Expectancy ~ CO2

Table 4: Life Expectancy ~ CO2

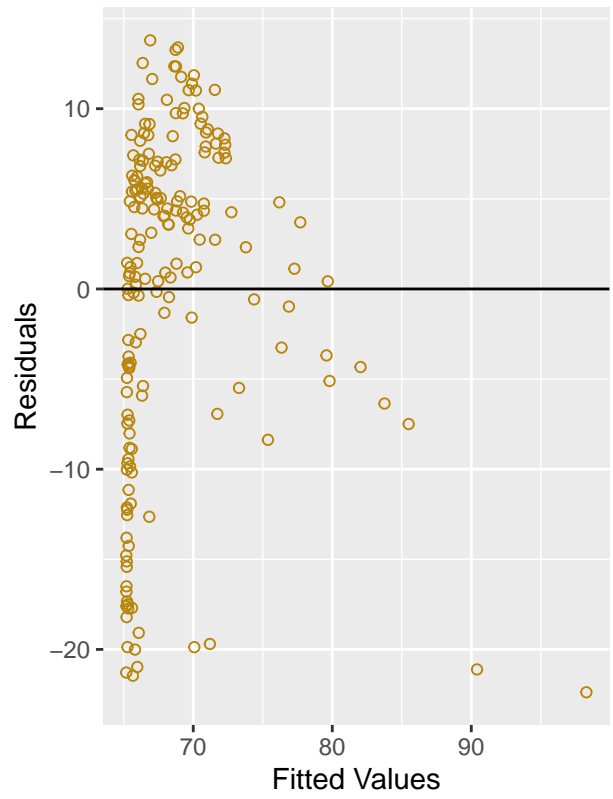
	Estimate	Std. Error	t value	Pr(> t)
(Intercept)	65.1673619	0.8378840	77.776114	0
CO2	0.6750591	0.0995408	6.781732	0

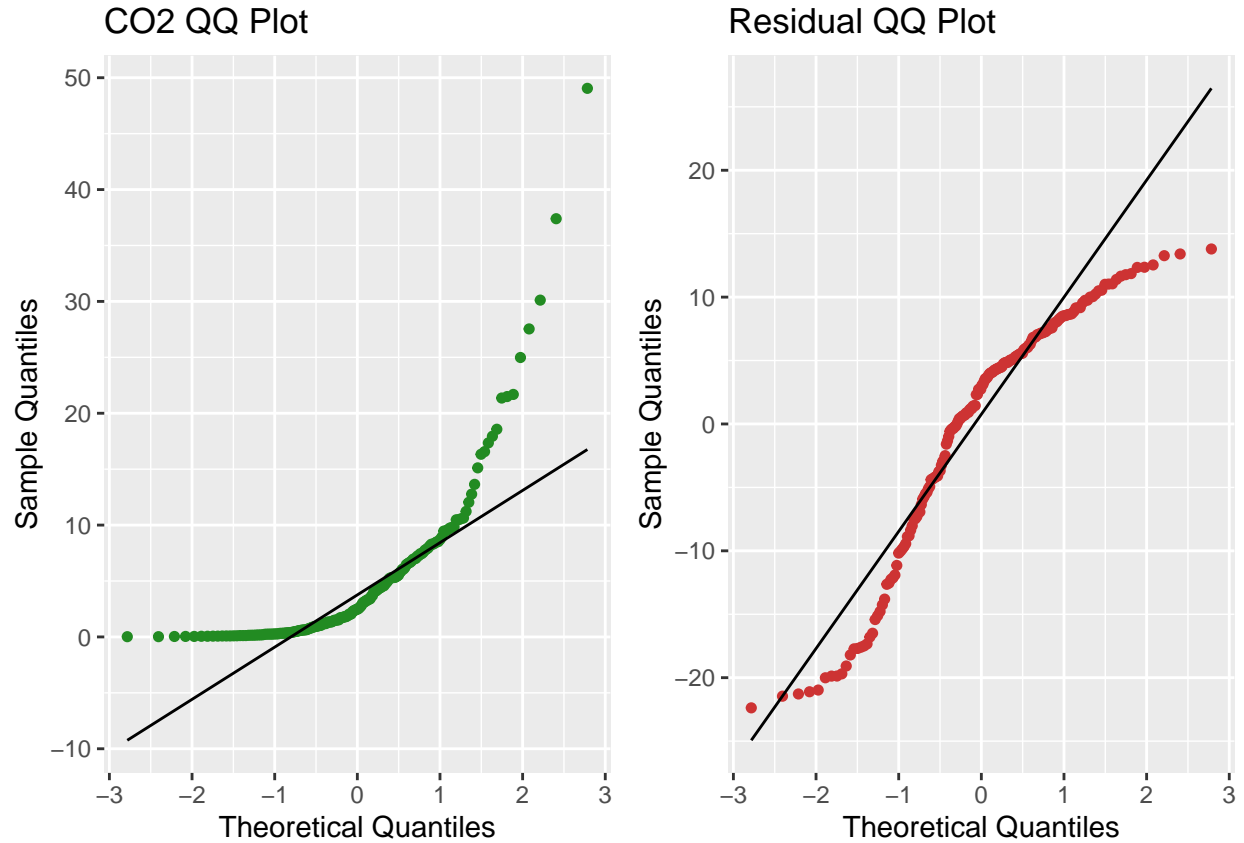
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Life Expectancy ~ CO2



Residuals Against Fitted Values





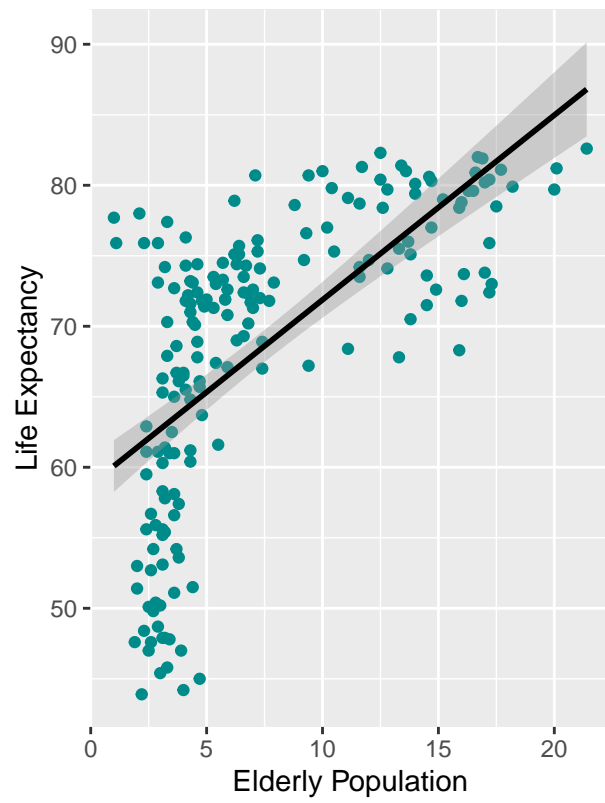
Life Expectancy ~ Elderly Population

Table 5: Life Expectancy ~ Elderly Population

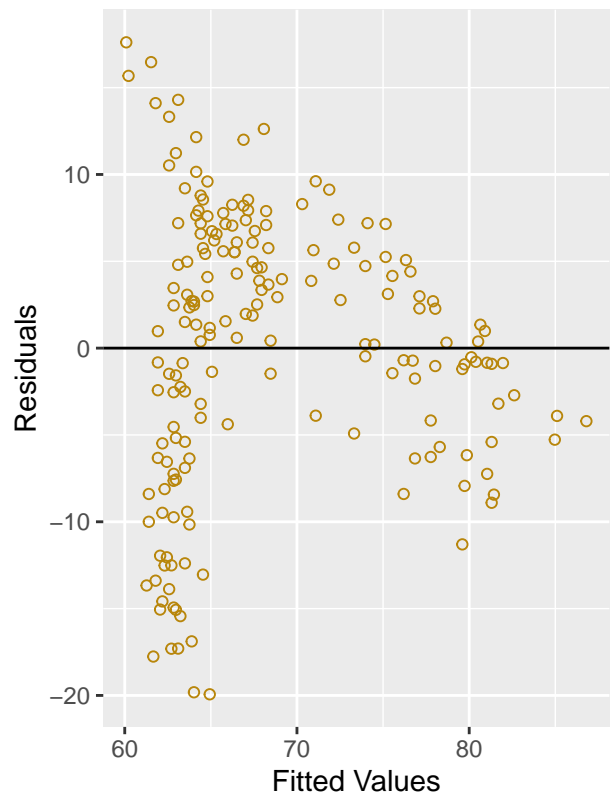
	Estimate	Std. Error	t value	Pr(> t)
(Intercept)	58.780154	1.0230021	57.45849	0
Elderly Population	1.309561	0.1136439	11.52337	0

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Life Expectancy ~ Elderly Populatio



Residuals Against Fitted Values





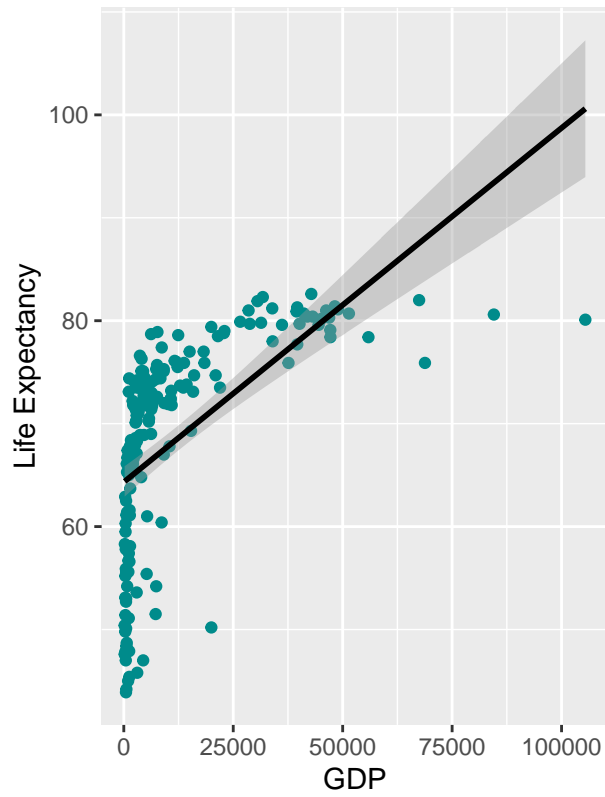
Life Expectancy ~ GDP

Table 6: Life Expectancy ~ GDP

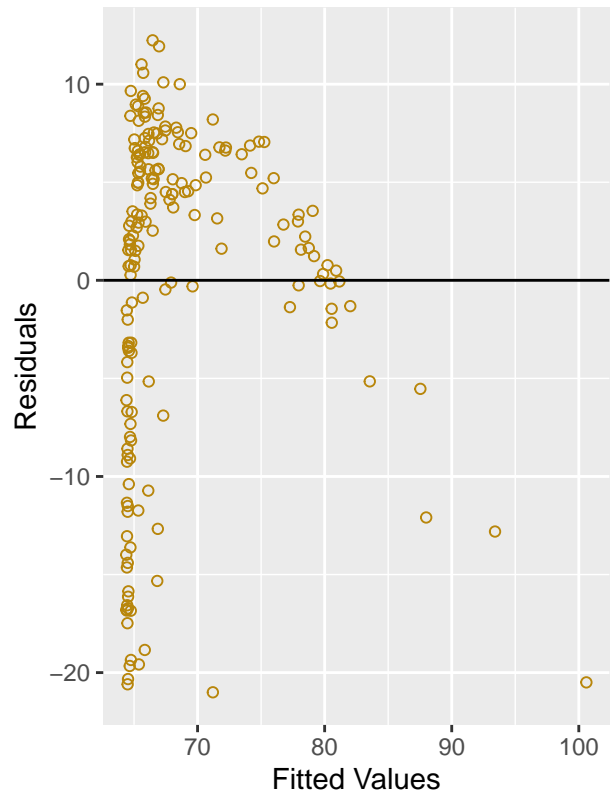
	Estimate	Std. Error	t value	Pr(> t)
(Intercept)	64.323624	0.7525609	85.472984	0
GDP	0.000344	0.0000355	9.690967	0

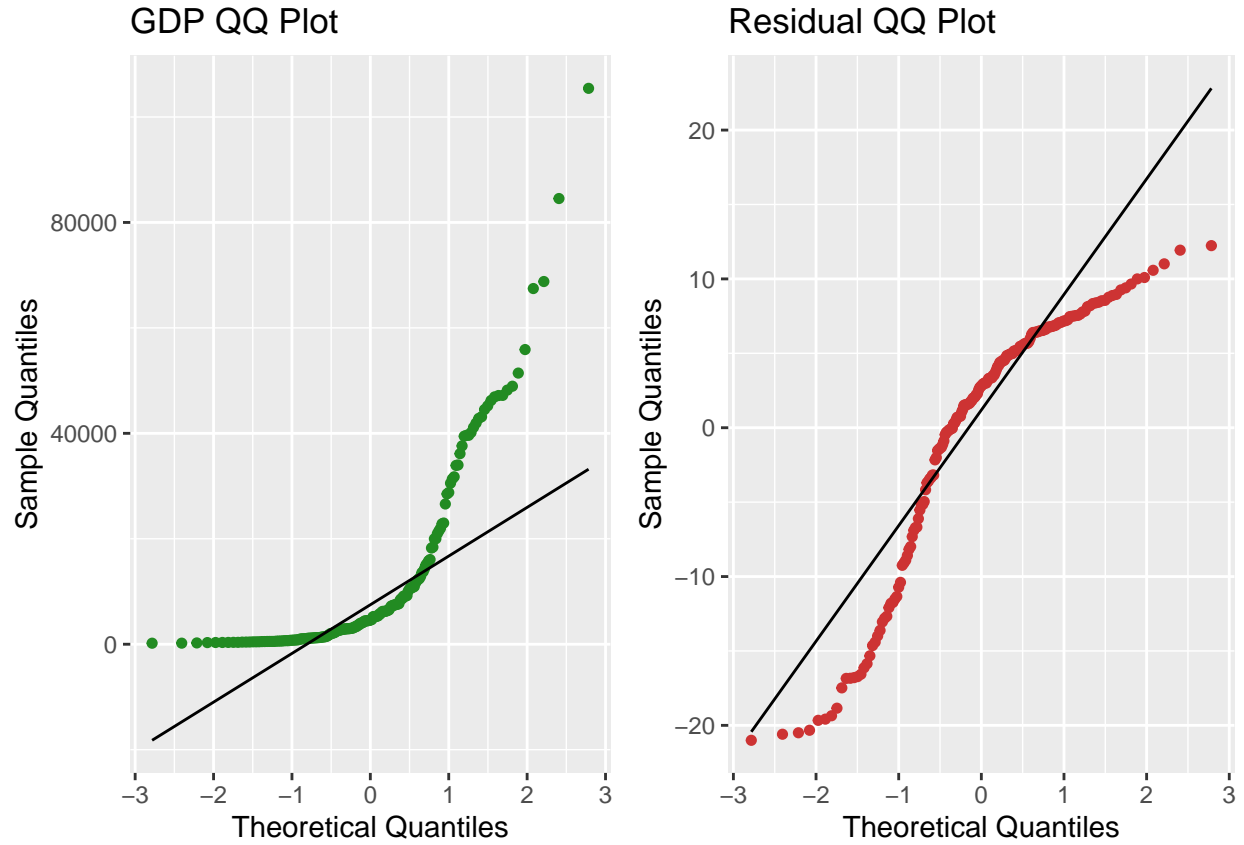
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Life Expectancy ~ GDP



Residuals Against Fitted Values





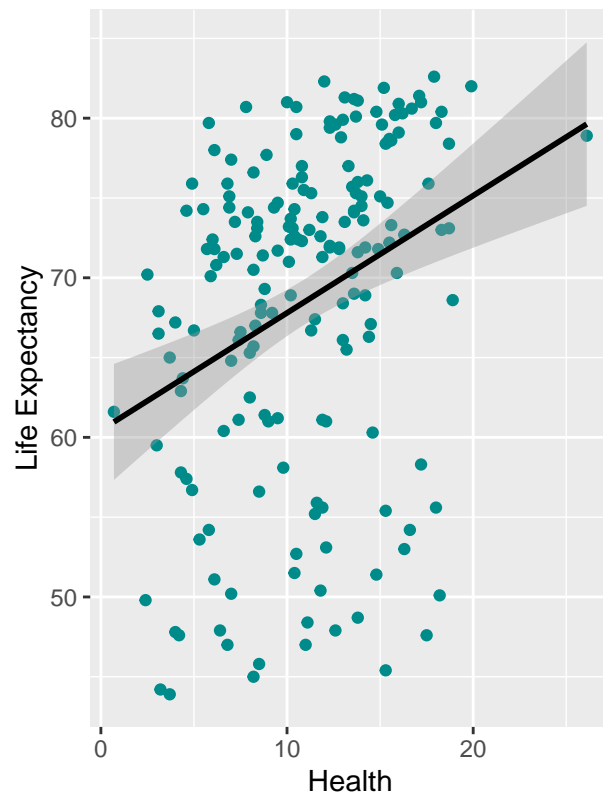
Life Expectancy ~ Health

Table 7: Life Expectancy ~ Health

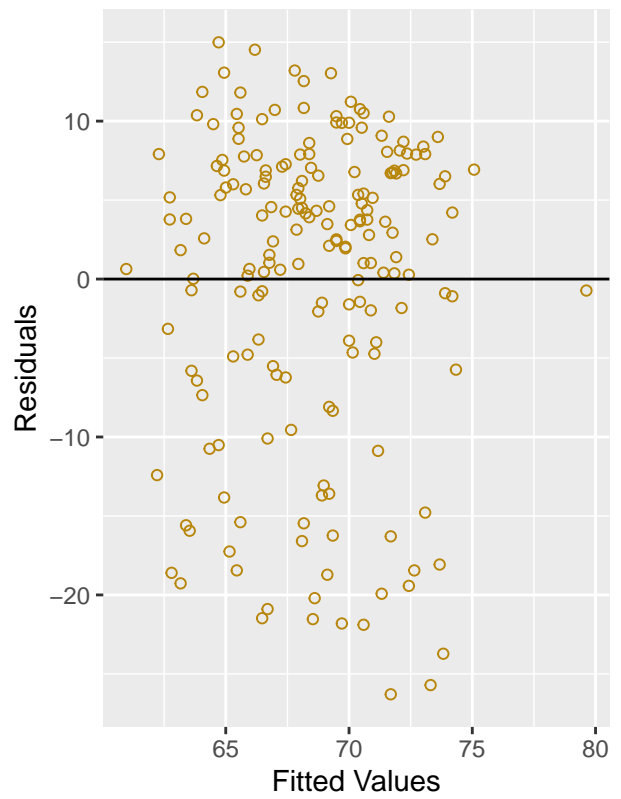
	Estimate	Std. Error	t value	Pr(> t)
(Intercept)	60.4502780	1.9492731	31.011703	0.00e+00
Health	0.7347805	0.1650418	4.452086	1.47e-05

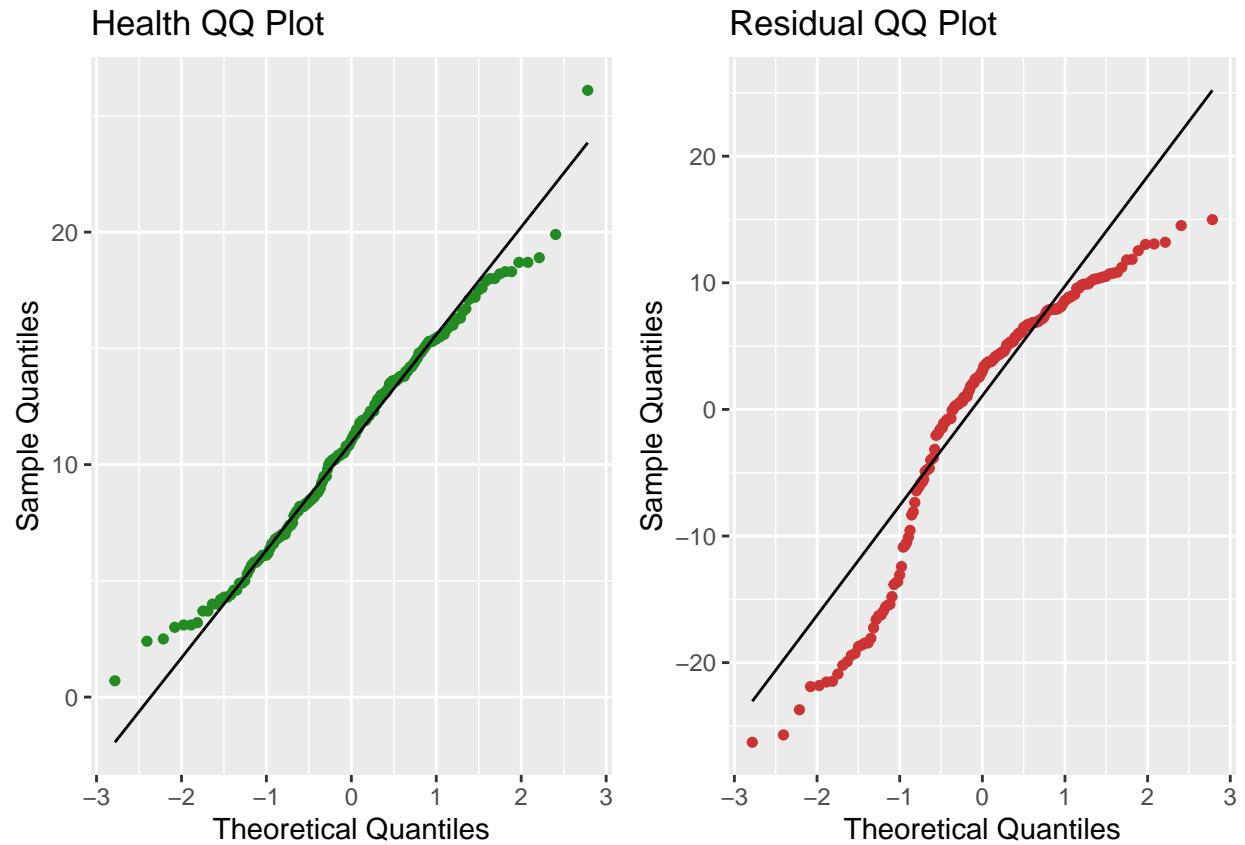
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Life Expectancy ~ Health



Residuals Against Fitted Values



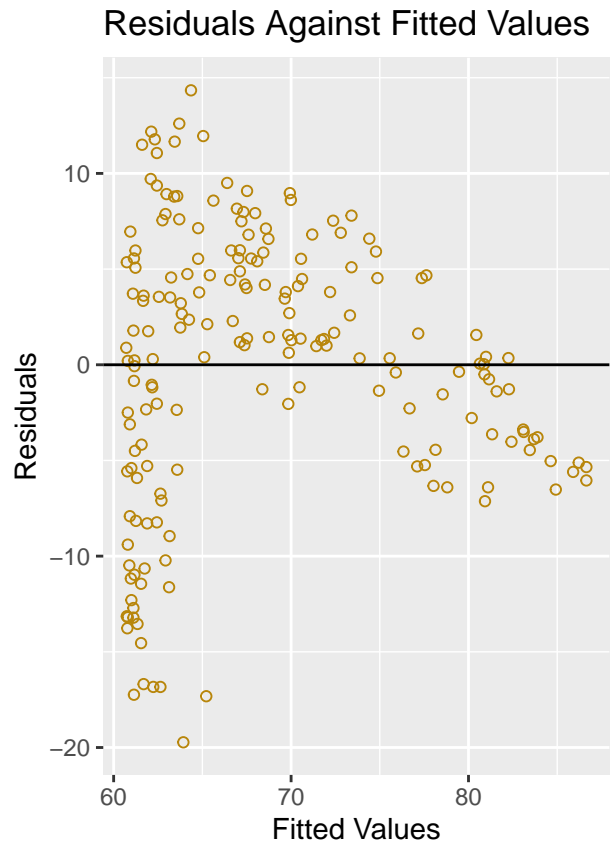
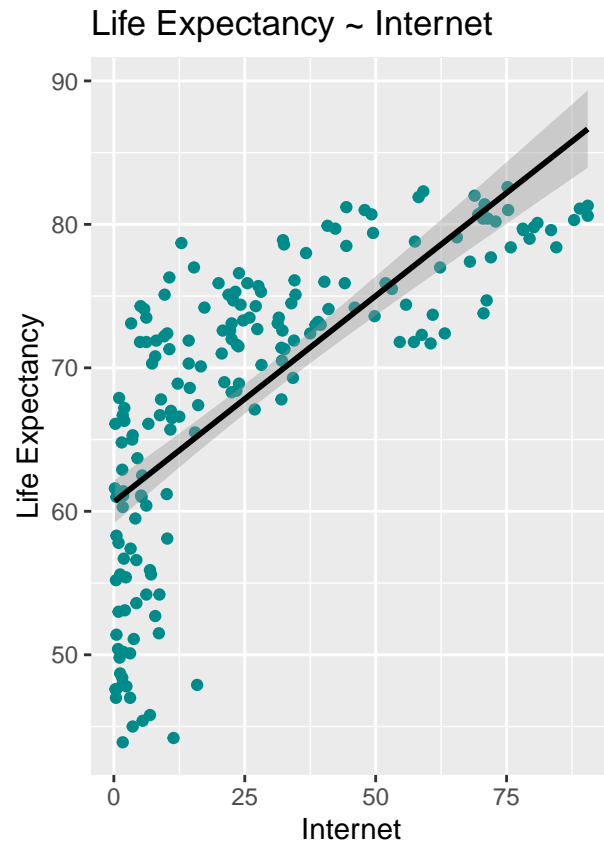


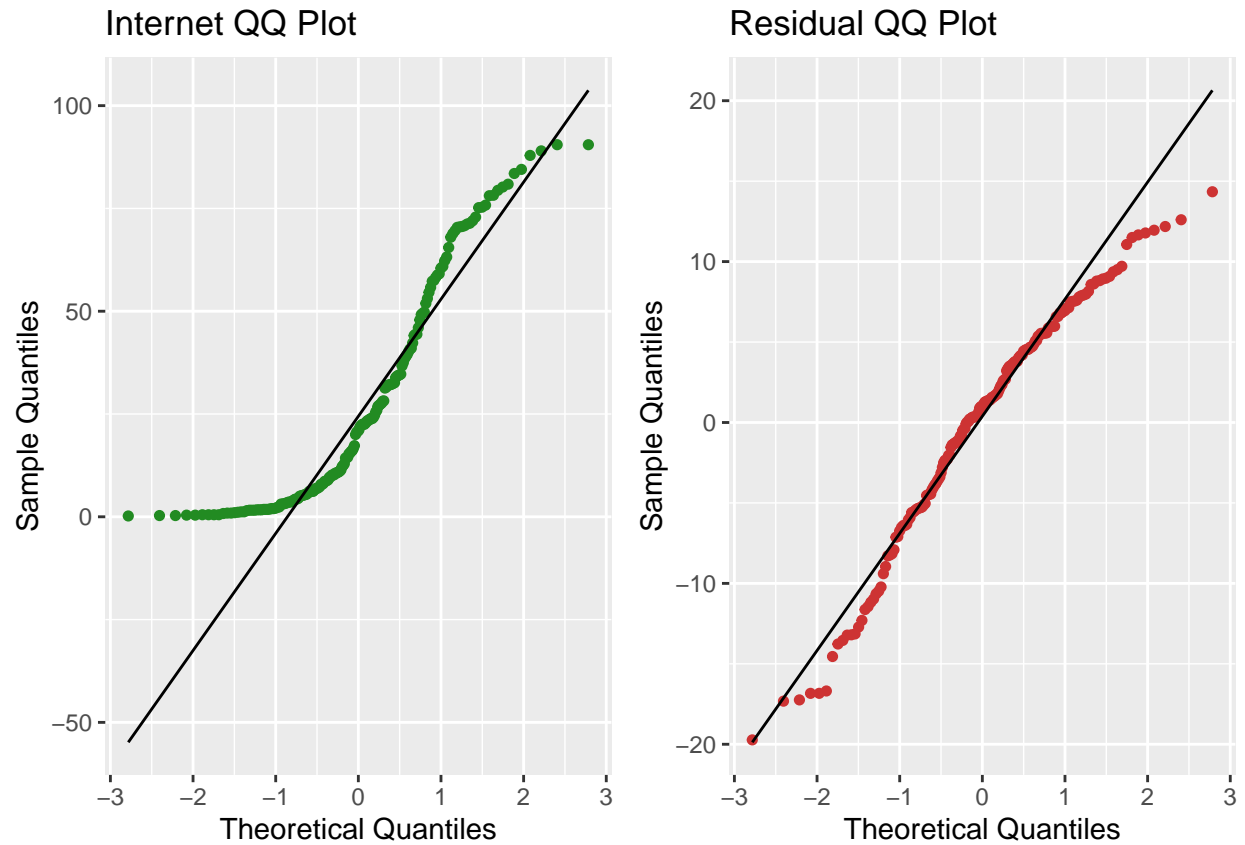
Life Expectancy ~ Internet

Table 8: Life Expectancy ~ Internet

	Estimate	Std. Error	t value	Pr(> t)
(Intercept)	60.6542290	0.7560181	80.22854	0
Internet	0.2871813	0.0200382	14.33166	0

```
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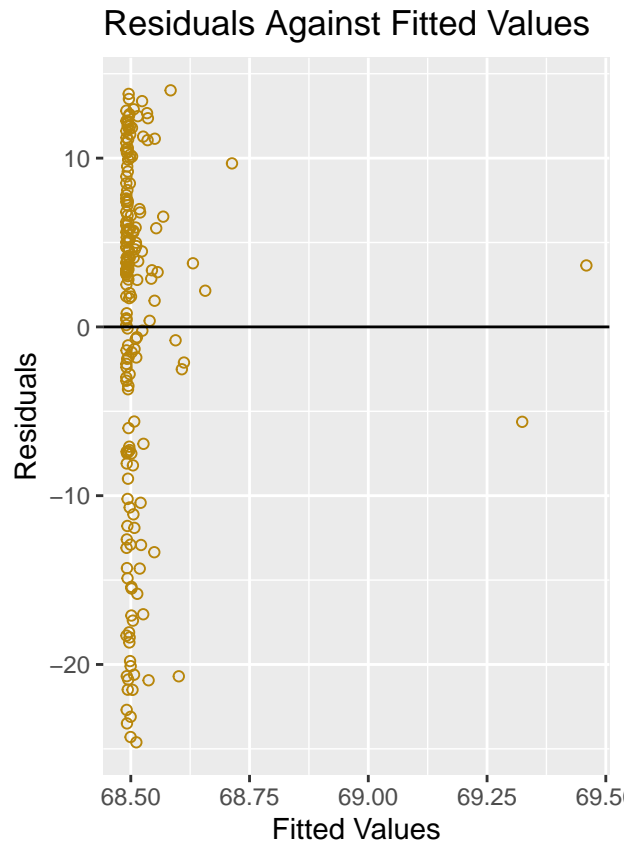
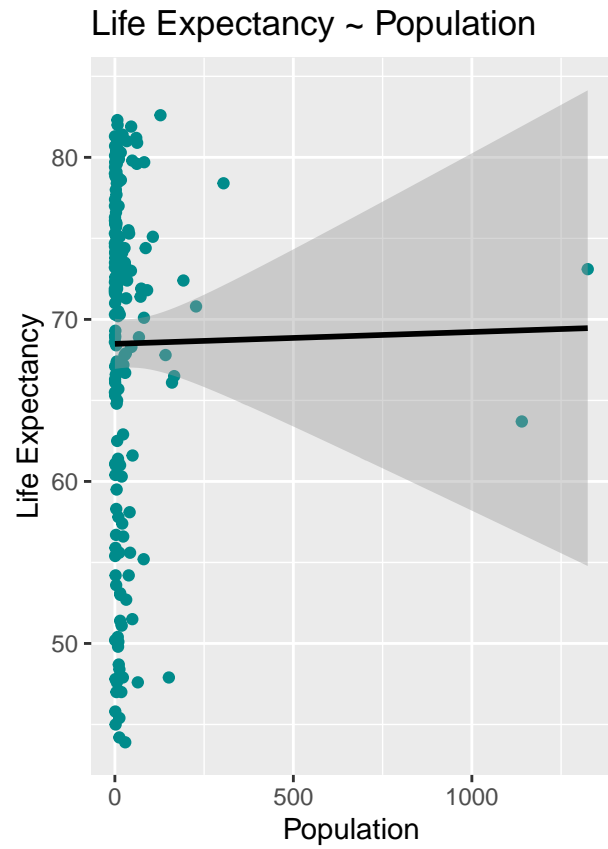


Life Expectancy ~ Population

Table 9: Life Expectancy ~ Population

	Estimate	Std. Error	t value	Pr(> t)
(Intercept)	68.4904710	0.7841700	87.3413582	0.0000000
Population	0.0007312	0.0057423	0.1273414	0.8988093

```
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```





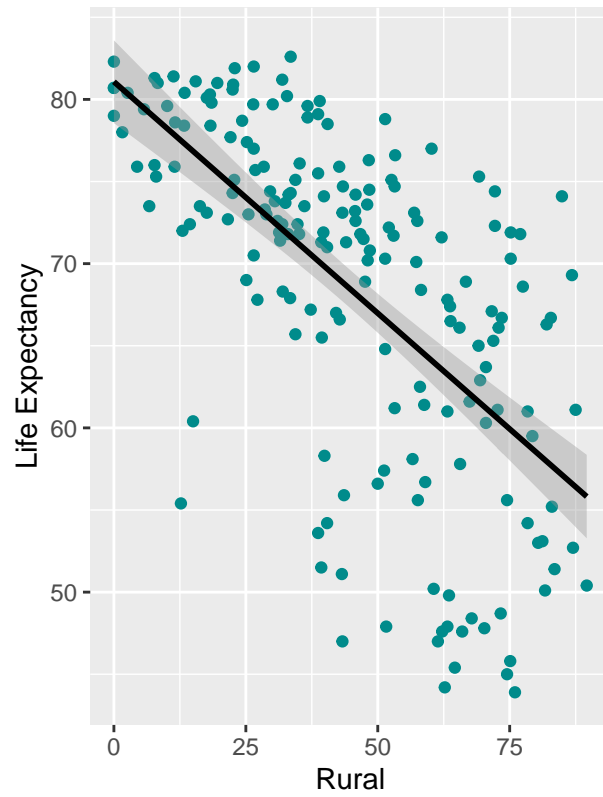
Life Expectancy ~ Rural

Table 10: Life Expectancy ~ Rural

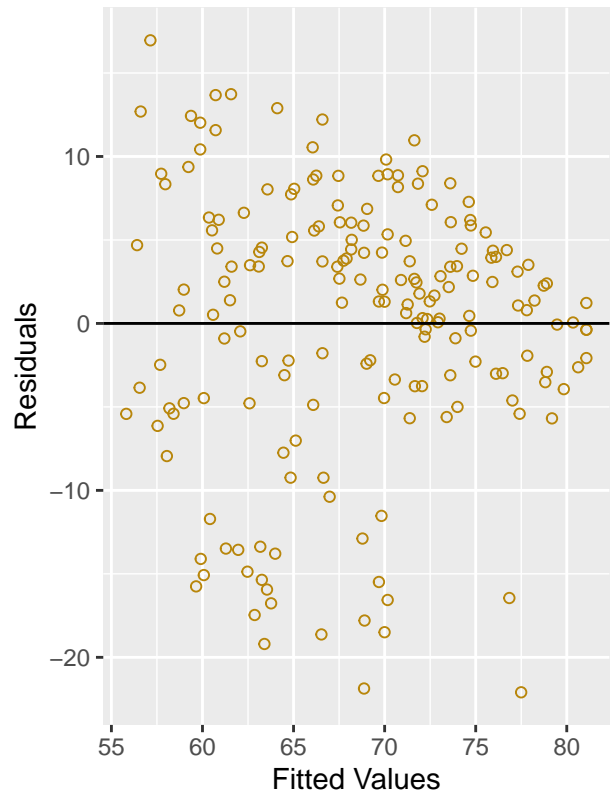
	Estimate	Std. Error	t value	Pr(> t)
(Intercept)	81.0758804	1.2775025	63.46436	0
Rural	-0.2819026	0.0254756	-11.06561	0

```
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```

Life Expectancy ~ Rural



Residuals Against Fitted Values



Rural QQ Plot



Residual QQ Plot

