

```
> attach(all95_quantvar)
```

```
> fittest1 <- lm(cyclingrate~-1+culturalsocial_1km+ALG_15to65+bldgofdev+tertiary_dev+pop_density.dev, data = all95_quantvar)
> summary(fittest1)
```

Call:

```
lm(formula = cyclingrate ~ -1 + culturalsocial_1km + ALG_15to65 +
    bldgofdev + tertiary_dev + pop_density.dev, data = all95_quantvar)
```

Residuals:

Min	1Q	Median	3Q	Max
-4.1278	-1.7325	-0.3118	1.1729	5.1123

Coefficients:

	Estimate	Std. Error	t value	Pr(> t)
culturalsocial_1km	0.1156015	0.0678082	1.705	0.1037
ALG_15to65	-0.9510573	0.3436885	-2.767	0.0119 *
bldgofdev	19.5079102	3.1128534	6.267	4.05e-06 ***
tertiary_dev	2.9675185	1.3166254	2.254	0.0356 *
pop_density.dev	0.0002369	0.0001648	1.438	0.1660

Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

Residual standard error: 2.759 on 20 degrees of freedom

Multiple R-squared: 0.9695, Adjusted R-squared: 0.9619

F-statistic: 127.3 on 5 and 20 DF, p-value: 1.875e-14

```
> fittest2 <- lm(cyclingrate~-1+culturalsocial_1km+ALG_15to65+bldgofdev+tertiary_dev+roadways_area, data = all95_quantvar)
> summary(fittest2)
```

Call:

```
lm(formula = cyclingrate ~ -1 + culturalsocial_1km + ALG_15to65 +
    bldgofdev + tertiary_dev + roadways_area, data = all95_quantvar)
```

Residuals:

Min	1Q	Median	3Q	Max
-5.2350	-1.3676	-0.0939	0.8704	4.4702

Coefficients:

	Estimate	Std. Error	t value	Pr(> t)
culturalsocial_1km	0.13315	0.06992	1.904	0.071338 .
ALG_15to65	-0.90320	0.35119	-2.572	0.018201 *
bldgofdev	18.44114	4.01680	4.591	0.000177 ***
tertiary_dev	3.24575	1.34018	2.422	0.025066 *
roadways_area	0.20123	0.22107	0.910	0.373512

Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

Residual standard error: 2.84 on 20 degrees of freedom

Multiple R-squared: 0.9677, Adjusted R-squared: 0.9597

F-statistic: 119.9 on 5 and 20 DF, p-value: 3.332e-14

```
> fittest3 <- lm(cyclingrate~-1+culturalsocial_1km+ALG_15to65+bldgofdev+tertiary_dev+med_tramdist, data = all95_quantvar)
> summary(fittest3)
```

Call:

```
lm(formula = cyclingrate ~ -1 + culturalsocial_1km + ALG_15to65 +
    bldgofdev + tertiary_dev + med_tramdist, data = all95_quantvar)
```

Residuals:

Min	1Q	Median	3Q	Max
-4.4795	-1.6088	-0.1172	1.5107	4.1291

Coefficients:

	Estimate	Std. Error	t value	Pr(> t)
culturalsocial_1km	0.1150804	0.0615016	1.871	0.0760 .
ALG_15to65	-0.8434690	0.3236327	-2.606	0.0169 *
bldgofdev	23.0276758	3.0835757	7.468	3.32e-07 ***
tertiary_dev	3.4635368	1.2574519	2.754	0.0122 *
med_tramdist	-0.0010842	0.0005532	-1.960	0.0641 .

Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

Residual standard error: 2.654 on 20 degrees of freedom

Multiple R-squared: 0.9718, Adjusted R-squared: 0.9647

F-statistic: 137.8 on 5 and 20 DF, p-value: 8.681e-15

```
> fittest4 <- lm(cyclingrate~-1+ALG_15to65+bldgofdev+tertiary_dev+med_tram
dist, data = all95_quantvar)
> summary(fittest4)
```

Call:

```
lm(formula = cyclingrate ~ -1 + ALG_15to65 + bldgofdev + tertiary_dev +
    med_tramdist, data = all95_quantvar)
```

Residuals:

Min	1Q	Median	3Q	Max
-4.3114	-1.6318	-0.1233	1.7050	5.4157

Coefficients:

	Estimate	Std. Error	t value	Pr(> t)
ALG_15to65	-1.0442976	0.3229895	-3.233	0.00398 **
bldgofdev	26.2031538	2.7235969	9.621	3.8e-09 ***
tertiary_dev	3.7408380	1.3209625	2.832	0.00999 **
med_tramdist	-0.0015266	0.0005291	-2.885	0.00886 **

Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

Residual standard error: 2.808 on 21 degrees of freedom

Multiple R-squared: 0.9669, Adjusted R-squared: 0.9605

F-statistic: 153.2 on 4 and 21 DF, p-value: 3.242e-15

```
> fittest5 <- lm(cyclingrate~-1+culturalsocial_1km+ALG_15to65+bldgofdev+te
rtiary_dev+autobahn_dev, data = all95_quantvar)
> summary(fittest5)
```

Call:

```
lm(formula = cyclingrate ~ -1 + culturalsocial_1km + ALG_15to65 +
    bldgofdev + tertiary_dev + autobahn_dev, data = all95_quantvar)
```

Residuals:

Min	1Q	Median	3Q	Max
-5.1715	-1.7874	-0.1896	1.4065	5.0224

Coefficients:

	Estimate	Std. Error	t value	Pr(> t)
culturalsocial_1km	0.14740	0.06089	2.421	0.0251 *
ALG_15to65	-0.84166	0.34165	-2.463	0.0230 *
bldgofdev	21.57860	3.09647	6.969	9.17e-07 ***
tertiary_dev	3.27196	1.32237	2.474	0.0224 *
autobahn_dev	-0.79209	0.66988	-1.182	0.2509

```

---
Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

Residual standard error: 2.802 on 20 degrees of freedom
Multiple R-squared:  0.9686,    Adjusted R-squared:  0.9607 
F-statistic: 123.3 on 5 and 20 DF,  p-value: 2.547e-14

> fittest6 <- lm(cyclingrate~-1+culturalsocial_1km+ALG_15to65+bldgofdev+te
rtiary_dev+devoftotal, data = all95_quantvar)
> summary(fittest6)

Call:
lm(formula = cyclingrate ~ -1 + culturalsocial_1km + ALG_15to65 +
    bldgofdev + tertiary_dev + devoftotal, data = all95_quantvar)

Residuals:
    Min       1Q   Median       3Q      Max
-4.9075 -1.4866 -0.4615  1.1555  4.5253

Coefficients:
              Estimate Std. Error t value Pr(>|t|)
culturalsocial_1km  0.12379    0.06505   1.903 0.071540 .
ALG_15to65         -0.99722    0.35181  -2.835 0.010243 *
bldgofdev           16.98798    3.99386   4.254 0.000389 ***
tertiary_dev         3.09880    1.30646   2.372 0.027845 *
devoftotal          5.22576    3.64246   1.435 0.166832

---
Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

Residual standard error: 2.759 on 20 degrees of freedom
Multiple R-squared:  0.9695,    Adjusted R-squared:  0.9619 
F-statistic: 127.2 on 5 and 20 DF,  p-value: 1.882e-14

> fittest7 <- lm(cyclingrate~-1+culturalsocial_1km+ALG_15to65+bldgofdev+te
rtiary_dev+cyclestreet_dev, data = all95_quantvar)
> summary(fittest7)

Call:
lm(formula = cyclingrate ~ -1 + culturalsocial_1km + ALG_15to65 +
    bldgofdev + tertiary_dev + cyclestreet_dev, data = all95_quantvar)

Residuals:
    Min       1Q   Median       3Q      Max
-4.3168 -1.8182 -0.3611  1.0939  5.1071

Coefficients:
              Estimate Std. Error t value Pr(>|t|)
culturalsocial_1km  0.11529    0.06598   1.747 0.09591 .
ALG_15to65         -1.02634    0.35197  -2.916 0.00854 **
bldgofdev           18.59224    3.27295   5.681 1.47e-05 ***
tertiary_dev         2.96527    1.30325   2.275 0.03404 *
cyclestreet_dev      0.53019    0.33820   1.568 0.13264

---
Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

Residual standard error: 2.735 on 20 degrees of freedom
Multiple R-squared:  0.9701,    Adjusted R-squared:  0.9626 
F-statistic: 129.6 on 5 and 20 DF,  p-value: 1.574e-14

> fittest8 <- lm(cyclingrate~-1+culturalsocial_1km+ALG_15to65+bldgofdev+te
rtiary_dev+busstops_1km, data = all95_quantvar)
> summary(fittest8)

```

```
Call:
lm(formula = cyclingrate ~ -1 + culturalsocial_1km + ALG_15to65 +
    bldgofdev + tertiary_dev + busstops_1km, data = all95_quantvar)
```

```
Residuals:
    Min       1Q   Median       3Q      Max
-5.0483 -1.4009  0.0682  1.1750  4.8618
```

```
Coefficients:
                Estimate Std. Error t value Pr(>|t|)
culturalsocial_1km  0.12127    0.06744   1.798 0.087263 .
ALG_15to65         -1.03799    0.36712  -2.827 0.010407 *
bldgofdev          17.40652    3.94035   4.418 0.000265 ***
tertiary_dev        2.96081    1.32872   2.228 0.037495 *
busstops_1km        0.13851    0.10419   1.329 0.198694
```

```
---
Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
```

```
Residual standard error: 2.778 on 20 degrees of freedom
Multiple R-squared:  0.9691, Adjusted R-squared:  0.9614
F-statistic: 125.5 on 5 and 20 DF, p-value: 2.148e-14
```

```
> fittest9 <- lm(cyclingrate~-1+culturalsocial_1km+ALG_15to65+bldgofdev+te
rtiary_dev+motorizationrate, data = all95_quantvar)
> summary(fittest9)
```

```
Call:
lm(formula = cyclingrate ~ -1 + culturalsocial_1km + ALG_15to65 +
    bldgofdev + tertiary_dev + motorizationrate, data = all95_quantvar)
```

```
Residuals:
    Min       1Q   Median       3Q      Max
-2.4818 -1.9331 -0.6333  0.9478  4.9084
```

```
Coefficients:
                Estimate Std. Error t value Pr(>|t|)
culturalsocial_1km  0.11797    0.05097   2.315  0.03139 *
ALG_15to65         -0.97435    0.28655  -3.400  0.00284 **
bldgofdev          37.64642    5.68000   6.628 1.87e-06 ***
tertiary_dev        3.62662    1.10548   3.281  0.00374 **
motorizationrate   -0.29106    0.08799  -3.308  0.00351 **
```

```
---
Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
```

```
Residual standard error: 2.33 on 20 degrees of freedom
Multiple R-squared:  0.9783, Adjusted R-squared:  0.9728
F-statistic: 180.1 on 5 and 20 DF, p-value: 6.459e-16
```

```
> fittest10 <- lm(cyclingrate~-1+culturalsocial_1km+ALG_15to65+bldgofdev+t
ertiary_dev+med_ubahndist, data = all95_quantvar)
> summary(fittest10)
```

```
Call:
lm(formula = cyclingrate ~ -1 + culturalsocial_1km + ALG_15to65 +
    bldgofdev + tertiary_dev + med_ubahndist, data = all95_quantvar)
```

```
Residuals:
    Min       1Q   Median       3Q      Max
-4.3994 -2.0671  0.1065  1.5248  5.3473
```

```
Coefficients:
```

	Estimate	Std. Error	t value	Pr(> t)
culturalsocial_1km	0.1247101	0.0616601	2.023	0.05670 .
ALG_15to65	-1.0170675	0.3437980	-2.958	0.00777 **
bldgofdev	22.7907854	3.1413737	7.255	5.1e-07 ***
tertiary_dev	4.1060881	1.3701841	2.997	0.00713 **
med_ubahndist	-0.0007961	0.0004626	-1.721	0.10066

Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

Residual standard error: 2.704 on 20 degrees of freedom
Multiple R-squared: 0.9707, Adjusted R-squared: 0.9634
F-statistic: 132.6 on 5 and 20 DF, p-value: 1.262e-14

```
> fittest11 <- lm(cyclingrate~-1+culturalsocial_1km+ALG_15to65+bldgofdev+tertiary_dev+jobs_housing11, data = all95_quantvar)
> summary(fittest11)
```

Call:
lm(formula = cyclingrate ~ -1 + culturalsocial_1km + ALG_15to65 + bldgofdev + tertiary_dev + jobs_housing11, data = all95_quantvar)

Residuals:

Min	1Q	Median	3Q	Max
-5.4619	-1.9313	0.1605	1.1901	4.5369

Coefficients:

	Estimate	Std. Error	t value	Pr(> t)
culturalsocial_1km	0.1649	0.0610	2.703	0.0137 *
ALG_15to65	-0.8484	0.3528	-2.405	0.0260 *
bldgofdev	21.0867	3.3296	6.333	3.51e-06 ***
tertiary_dev	3.1677	1.4040	2.256	0.0354 *
jobs_housing11	-0.1090	0.4399	-0.248	0.8068

Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

Residual standard error: 2.893 on 20 degrees of freedom
Multiple R-squared: 0.9665, Adjusted R-squared: 0.9581
F-statistic: 115.4 on 5 and 20 DF, p-value: 4.841e-14