

# Regression

```
lm(y ~ x1 + x2, data=data_frame_name)
```

Intercept (constant) term gets added

Don't need to quote or prefix column names

# Regression Summary

```
reg1 <- lm(road ~ pop_2017 + gdp_2017, data=africa)
summary(reg1)
```

```
Call:
lm(formula = road ~ pop_2017 + gdp_2017, data = africa)
```

Residuals:

Min	1Q	Median	3Q	Max
-100394	-14841	-8052	3801	121130

Coefficients:

	Estimate	Std. Error	t value	Pr(> t )	
(Intercept)	1.517e+04	5.993e+03	2.532	0.0145	*
pop_2017	3.084e-04	1.987e-04	1.553	0.1268	
gdp_2017	9.920e-07	1.506e-07	6.588	2.65e-08	***

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

Residual standard error: 35670 on 50 degrees of freedom

Multiple R-squared: 0.6811, Adjusted R-squared: 0.6684

F-statistic: 53.41 on 2 and 50 DF, p-value: 3.889e-13