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Linear Modelling Class' Cheat Sheet

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ANOVA

`aov()`	Homoscedastic linear model with categorical predictors
`oneway.test()`	Heteroscedastic linear model with categorical predictors
`kruskal.test()`	Rank-based linear model with a categorical predictor
`t.test()`	Heteroscedastic (Student's test) and heteroscedastic (Welch's test) linear model with a binary predictor
`tapply()`	Apply a function to each element of a vector
`qqnorm()`	Normal quantile-quantile plot
`shapiro.test()`	Test of normality (distribution)
`bartlett.test()`	Test of equality of variance between groups

Simple Regression

`cor()`	Correlation between between 2 variables
`cor.test()`	Test for (linear or rank) association between 2 variables
`residuals()`	Extract residuals from an object of class 'lm' (linear model)
`lm()`	Linear model fit

Multiple Regression

`AIC()`	Akaike's information criterion (AIC) for a fitted model
`stepAIC()`	AIC based stepwise model selection
`nls()`	Non-linear least squares fit

Generalised Linear Models

`install.packages()`	Locally install R packages
`glm()`	Generalised linear model fit
`gamlss()`	Generalised linear and additive model fit
`anova()`	Comparison of embedded (LM or GLM) models
`chisq.test()`	Pearson's chi-square test
`prop.test()`	Test of equality of proportions

Time Series

`acf()`	Auto-correlation function
`pacf()`	Partial auto-correlation function
`arima()`	ARIMA time series model fit