

Assuming your regression model has already been fit with:

```
fit <- lm(y ~ x, data = df)
```

Plot	Violations that can be examined	Code	The plot should show (for no evidence of violations)
Residuals against fitted values	Linearity Constant spread	<pre>qplot(.fitted, .resid, data = fit) # optionally add a smooth qplot(.fitted, .resid, data = fit) + geom_smooth()</pre>	The points spread in an even band around a horizontal line at zero.
Residuals against explanatory variable	Linearity Constant spread	<pre>qplot(x, .resid, data = fit) # optionally add a smooth qplot(x, .resid, data = fit) + geom_smooth()</pre>	The points spread in an even band around a horizontal line at zero.
A normal probability plot for residuals	Normality	<pre>qplot(sample = .resid, data = fit) + stat_qqline()</pre>	The points lying along a straight line.

For `stat_qqline` to work you'll also need to run:

```
source(url("http://stat512.cwick.co.nz/code/stat_qqline.r"))
```