

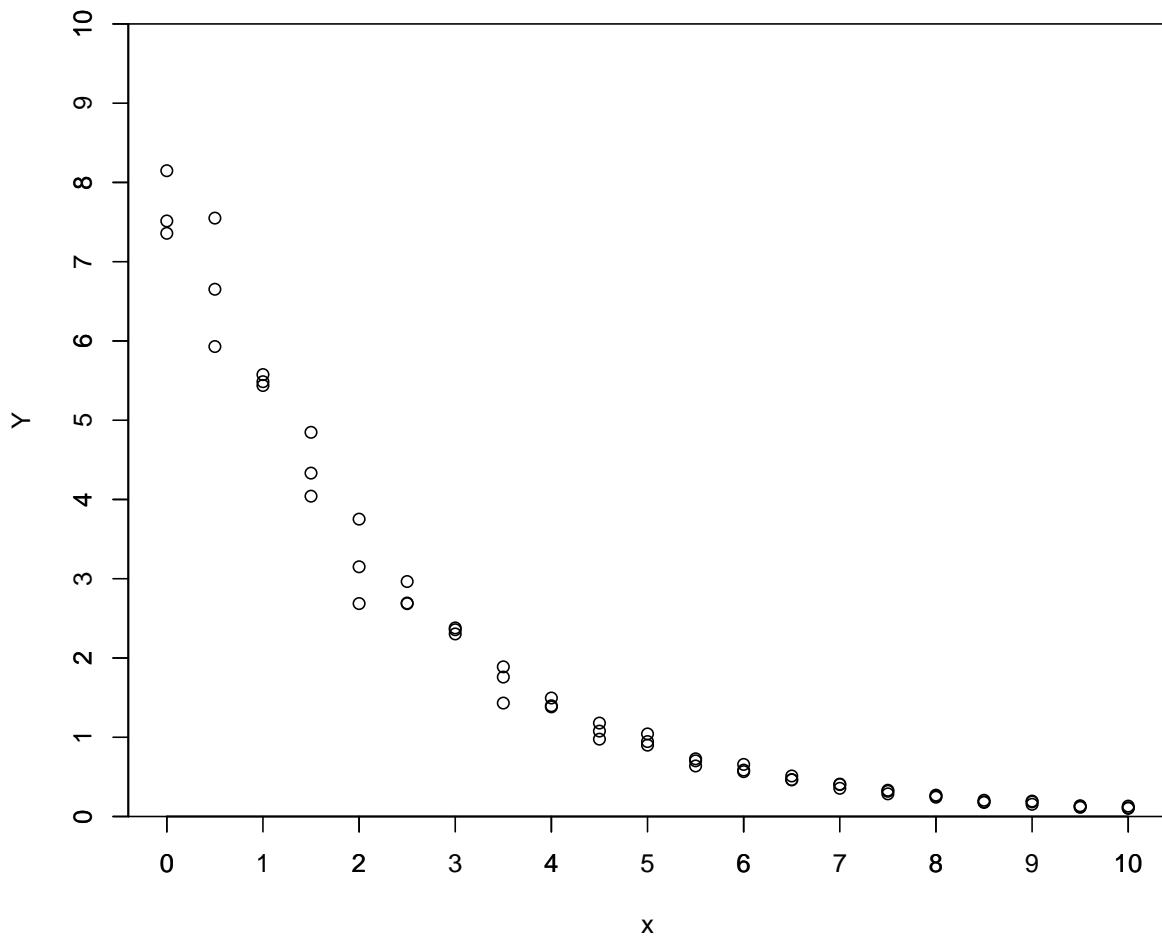
Model

According to theory there is a relationship of the form

$$y \approx \alpha + \gamma e^{-x/\beta}$$

between y and x .

Data



Computer-Output

Formula: $y \sim \text{alpha} + \text{gamma} * \exp(-x/\text{beta})$

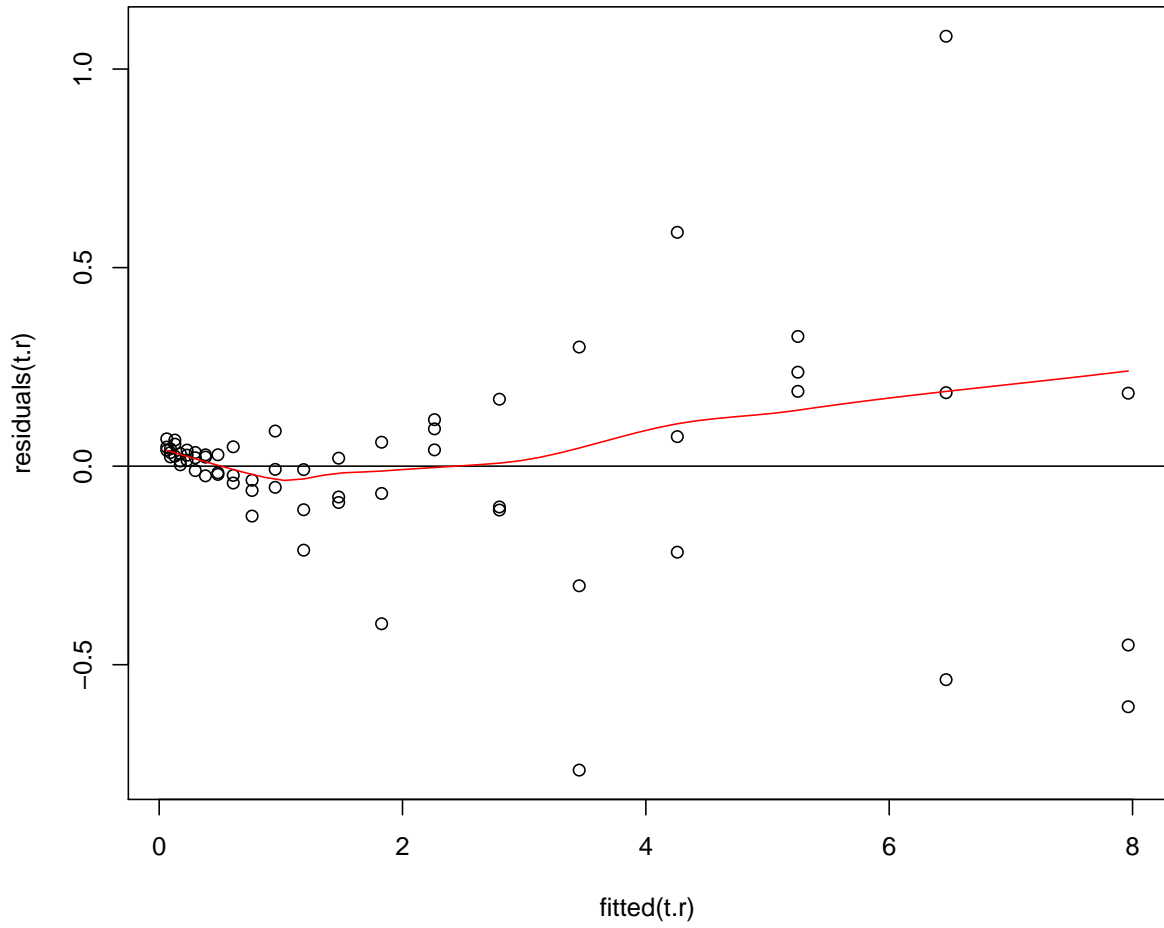
Parameters:

	Estimate	Std. Error	t value	Pr(> t)	
gamma	8.03148	0.11532	69.642	<2e-16	***
beta	2.42388	0.08827	27.458	<2e-16	***
alpha	-0.06694	0.07309	-0.916	0.363	

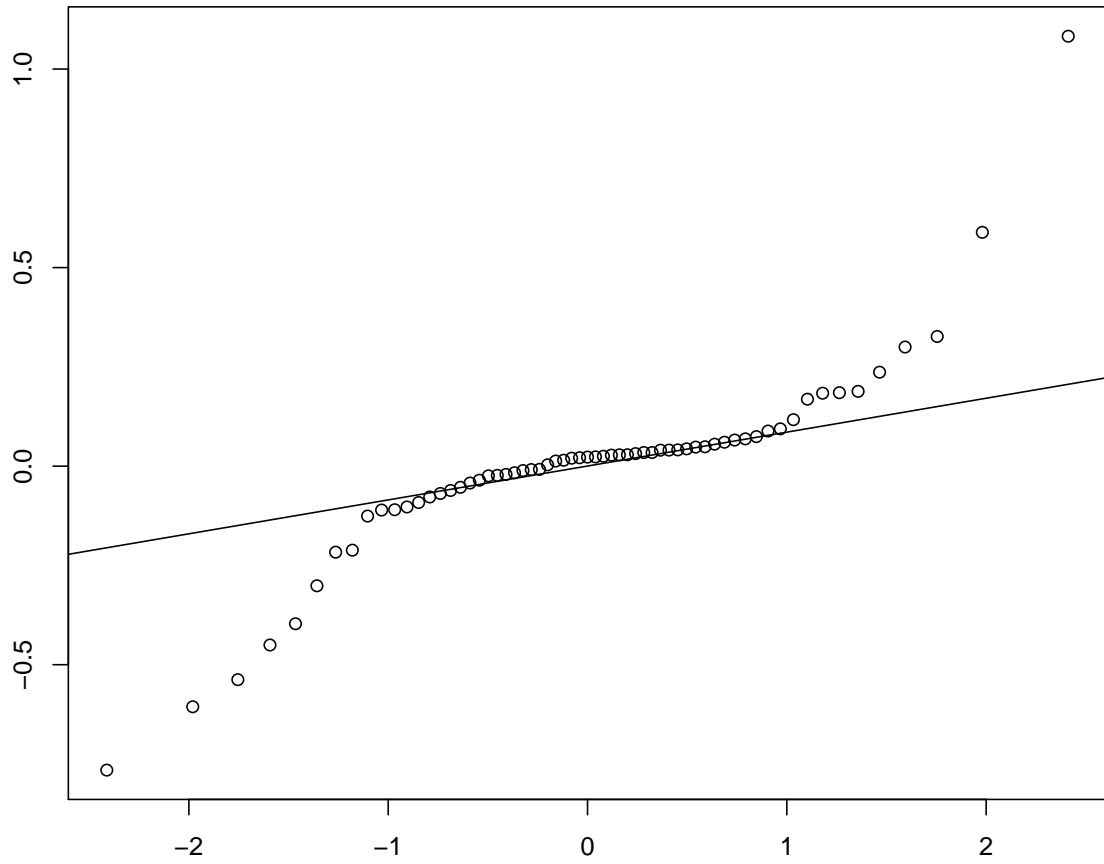
Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

Residual standard error: 0.253 on 60 degrees of freedom

Tukey-Anscombe plot



QQ-plot



Computer-Output

Call:

```
lm(formula = log(y) ~ x, data = t.d)
```

Coefficients:

	Estimate	Std. Error	t value	Pr(> t)	
(Intercept)	2.081824	0.021639	96.21	<2e-16	***
x	-0.432240	0.003702	-116.76	<2e-16	***

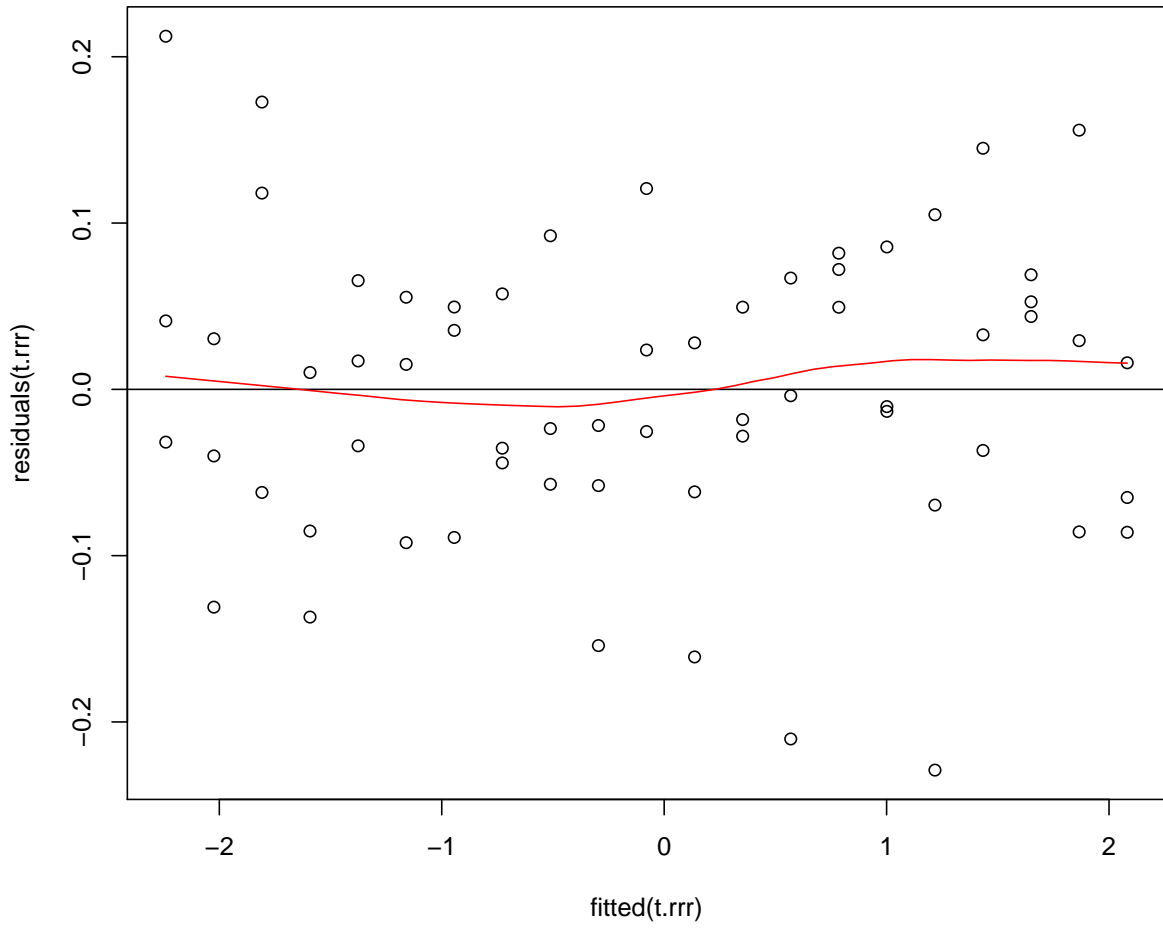
Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

Residual standard error: 0.08896 on 61 degrees of freedom

Multiple R-squared: 0.9955, Adjusted R-squared: 0.9955

F-statistic: 1.363e+04 on 1 and 61 DF, p-value: < 2.2e-16

Tukey-Anscombe plot



QQ-plot

