

Machine learning for multiple linear regression

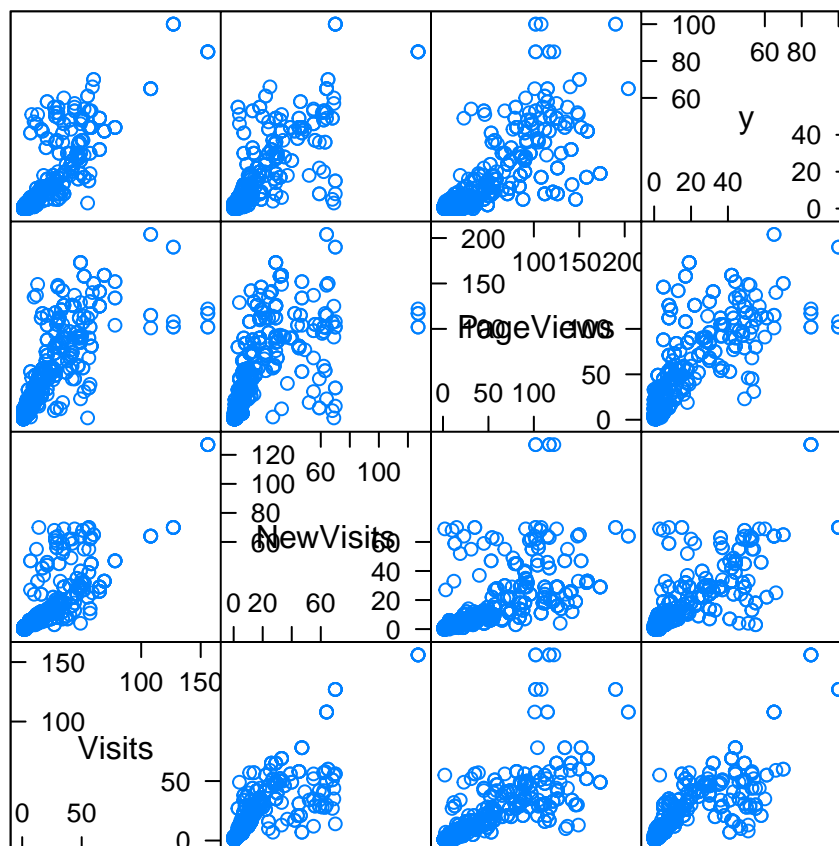
Multiple linear regression is a generalization of linear regression by considering more than one independent variable, and a specific case of general linear models formed by restricting the number of dependent variables to one.

Split data into training and testing chunks

```
[1] 643  9
```

```
[1] 273  9
```

feature plot



Scatter Plot Matrix

Fit a linear model

Linear Regression

643 samples

8 predictor

No pre-processing

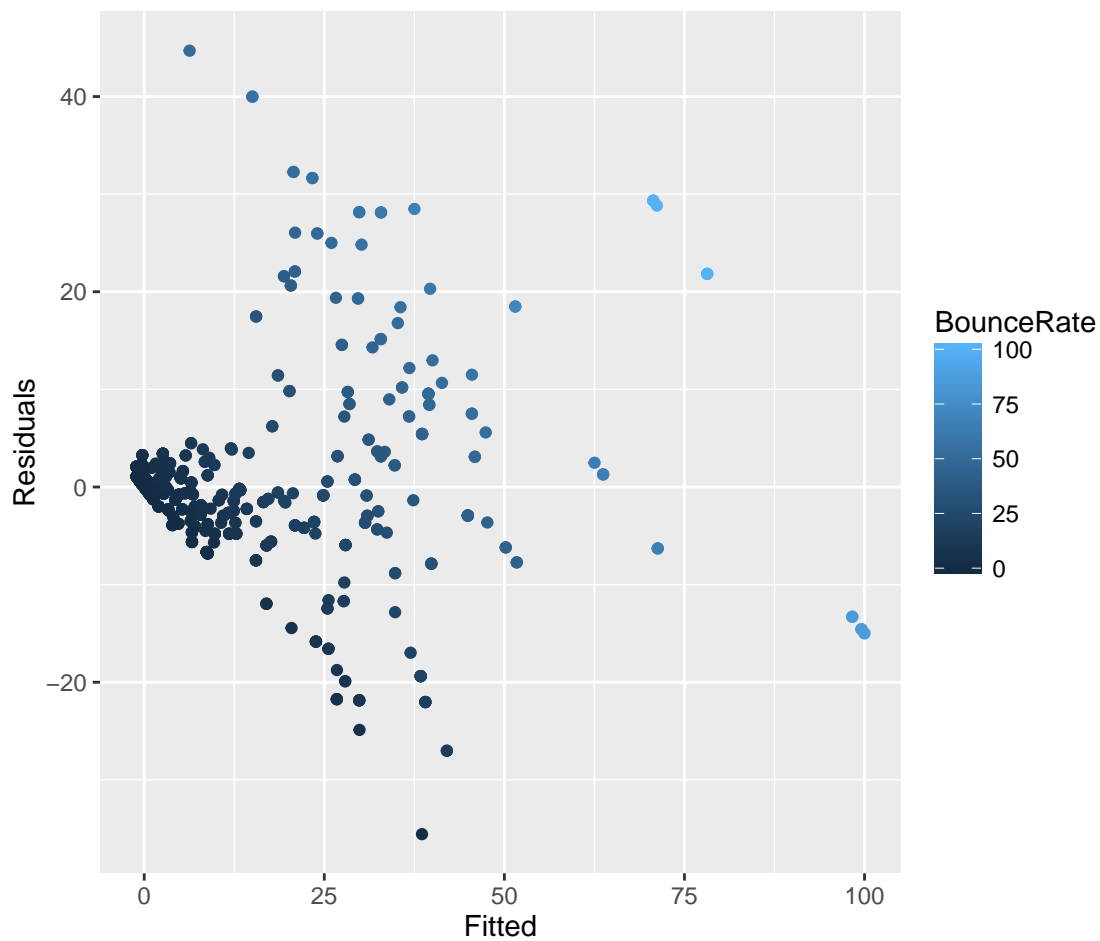
Resampling: Bootstrapped (25 reps)

Summary of sample sizes: 643, 643, 643, 643, 643, 643, ...

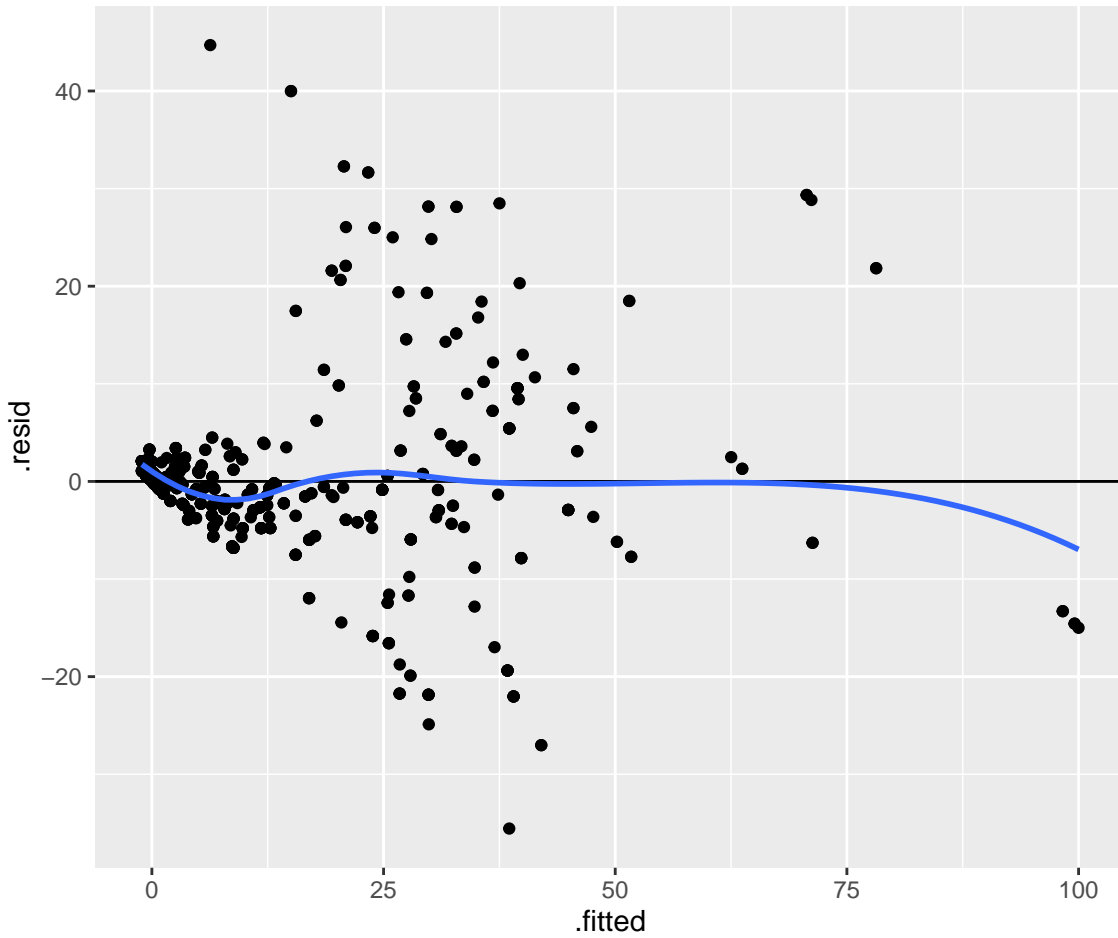
Resampling results:

RMSE	Rsquared
9.381028	0.7694436

Plot fitted versus residuals color by bounce rate



Plot fitted versus residuals



Predict training and testing datasets

1	2	6	7	9	10
15.521165	5.762200	9.218444	12.657784	36.768761	10.673550
3	4	5	8	11	13
1.042009	14.505307	12.168198	33.398937	21.039587	1.600252

Plot predictive models

