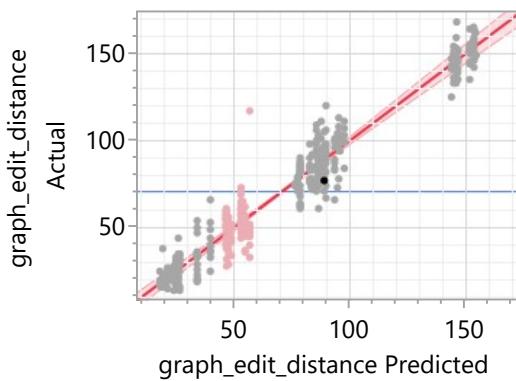


## Table of Contents

|                                      |    |
|--------------------------------------|----|
| Fit Group.....                       | 3  |
| Response graph_edit_distance.....    | 3  |
| Actual by Predicted Plot.....        | 3  |
| Effect Summary.....                  | 3  |
| Lack Of Fit.....                     | 3  |
| Studentized Residuals.....           | 3  |
| Effect Tests.....                    | 4  |
| Scaled Estimates.....                | 4  |
| Prediction Profiler.....             | 5  |
| Response validity_edit_distance..... | 6  |
| Actual by Predicted Plot.....        | 6  |
| Effect Summary.....                  | 6  |
| Lack Of Fit.....                     | 6  |
| Studentized Residuals.....           | 6  |
| Effect Tests.....                    | 7  |
| Scaled Estimates.....                | 7  |
| Prediction Profiler.....             | 8  |
| Response mean_in_tok.....            | 9  |
| Actual by Predicted Plot.....        | 9  |
| Effect Summary.....                  | 9  |
| Lack Of Fit.....                     | 9  |
| Studentized Residuals.....           | 9  |
| Effect Tests.....                    | 10 |
| Scaled Estimates.....                | 10 |
| Prediction Profiler.....             | 11 |
| Response mean_out_tok.....           | 12 |
| Actual by Predicted Plot.....        | 12 |
| Effect Summary.....                  | 12 |
| Lack Of Fit.....                     | 12 |
| Studentized Residuals.....           | 12 |
| Effect Tests.....                    | 13 |
| Scaled Estimates.....                | 13 |
| Prediction Profiler.....             | 14 |
| Response iterations.....             | 15 |

|                               |    |
|-------------------------------|----|
| Actual by Predicted Plot..... | 15 |
| Effect Summary.....           | 15 |
| Lack Of Fit.....              | 15 |
| Studentized Residuals.....    | 15 |
| Effect Tests.....             | 16 |
| Scaled Estimates.....         | 16 |
| Prediction Profiler.....      | 17 |

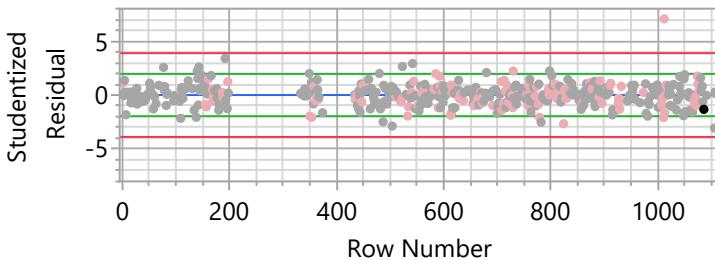
**Fit Group****Response graph\_edit\_distance****Actual by Predicted Plot****Effect Summary**

| Source             | Logworth | PValue    |
|--------------------|----------|-----------|
| app_id             | 248.198  | 0.00000   |
| summarized         | 13.713   | 0.00000   |
| app_id*summarized  | 1.148    | 0.07109   |
| rag                | 0.693    | 0.20266   |
| app_id*version     | 0.329    | 0.46900   |
| version            | 0.127    | 0.74608 ^ |
| rag*summarized     | 0.127    | 0.74622   |
| version*rag        | 0.101    | 0.79159   |
| version*summarized | 0.031    | 0.93175   |

**Lack Of Fit**

| Source      | DF  | Sum of    |             |          |
|-------------|-----|-----------|-------------|----------|
|             |     | Squares   | Mean Square | F Ratio  |
| Lack Of Fit | 28  | 6565.025  | 234.465     | 3.1127   |
| Pure Error  | 387 | 29150.657 | 75.325      | Prob > F |
| Total Error | 415 | 35715.682 |             | <.0001*  |

**Max RSq**  
0.9632

**Studentized Residuals**

Externally studentized residuals with 95% simultaneous limits (Bonferroni) in red, individual limits in green.

**Fit Group****Response graph\_edit\_distance****Effect Tests**

| Source             | Nparm | DF | Sum of    |          |          |
|--------------------|-------|----|-----------|----------|----------|
|                    |       |    | Squares   | F Ratio  | Prob > F |
| app_id             | 5     | 5  | 546347.23 | 1269.661 | <.0001*  |
| version            | 2     | 2  | 50.46     | 0.2931   | 0.7461   |
| rag                | 1     | 1  | 140.13    | 1.6283   | 0.2027   |
| summarized         | 1     | 1  | 5423.21   | 63.0153  | <.0001*  |
| app_id*version     | 10    | 10 | 834.77    | 0.9700   | 0.4690   |
| app_id*summarized  | 5     | 5  | 881.12    | 2.0476   | 0.0711   |
| version*rag        | 2     | 2  | 40.25     | 0.2338   | 0.7916   |
| version*summarized | 2     | 2  | 12.17     | 0.0707   | 0.9317   |
| rag*summarized     | 1     | 1  | 9.03      | 0.1049   | 0.7462   |

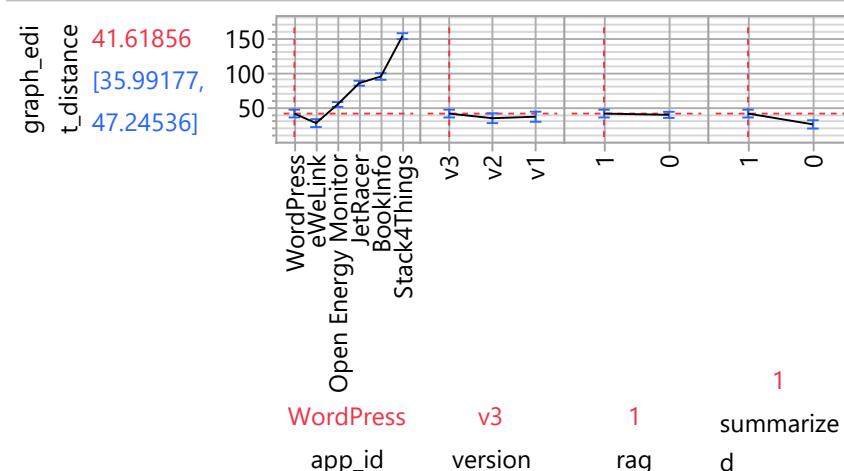
**Scaled Estimates**

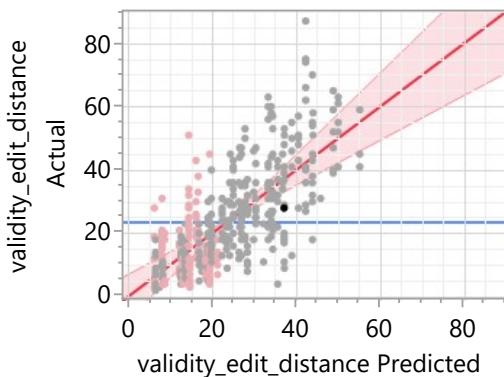
Nominal factors expanded to all levels

| Term                                      | Scaled    |  | Std Error | t Ratio | Prob> t |
|---|-----------|--|-----------|---------|---------|
|   | Estimate  |  |           |         |         |
| rag[1]                                    | 0.747844  |  | 0.586071  | 1.28    | 0.2027  |
| rag[0]                                    | -0.747844 |  | 0.586071  | -1.28   | 0.2027  |
| summarized[1]                             | 4.1849142 |  | 0.527186  | 7.94    | <.0001* |
| summarized[0]                             | -4.184914 |  | 0.527186  | -7.94   | <.0001* |
| app_id[WordPress]*version[v3]             | 3.6749217 |  | 1.568287  | 2.34    | 0.0196* |
| app_id[WordPress]*version[v2]             | -2.683698 |  | 1.663866  | -1.61   | 0.1075  |
| app_id[WordPress]*version[v1]             | -0.991224 |  | 1.749302  | -0.57   | 0.5713  |
| app_id[eWeLink]*version[v3]               | 0.3584064 |  | 1.586062  | 0.23    | 0.8213  |
| app_id[eWeLink]*version[v2]               | 0.2277551 |  | 1.688673  | 0.13    | 0.8928  |
| app_id[eWeLink]*version[v1]               | -0.586161 |  | 1.890673  | -0.31   | 0.7567  |
| app_id[Open Energy Monitor]*version[v3]   | -0.400045 |  | 1.165447  | -0.34   | 0.7316  |
| app_id[Open Energy Monitor]*version[v2]   | -1.037157 |  | 1.348487  | -0.77   | 0.4423  |
| app_id[Open Energy Monitor]*version[v1]   | 1.4372026 |  | 1.401748  | 1.03    | 0.3058  |
| app_id[JetRacer]*version[v3]              | -1.727137 |  | 1.325296  | -1.30   | 0.1932  |
| app_id[JetRacer]*version[v2]              | 2.7683517 |  | 1.575391  | 1.76    | 0.0796  |
| app_id[JetRacer]*version[v1]              | -1.041214 |  | 1.634669  | -0.64   | 0.5245  |
| app_id[BookInfo]*version[v3]              | -1.28878  |  | 1.633532  | -0.79   | 0.4306  |
| app_id[BookInfo]*version[v2]              | 0.341893  |  | 2.050131  | 0.17    | 0.8676  |
| app_id[BookInfo]*version[v1]              | 0.9468869 |  | 2.061557  | 0.46    | 0.6463  |
| app_id[Stack4Things]*version[v3]          | -0.617366 |  | 1.433146  | -0.43   | 0.6669  |
| app_id[Stack4Things]*version[v2]          | 0.3828551 |  | 1.645989  | 0.23    | 0.8162  |
| app_id[Stack4Things]*version[v1]          | 0.2345105 |  | 1.943192  | 0.12    | 0.9040  |
| app_id[WordPress]*summarized[1]           | 3.5508156 |  | 1.154565  | 3.08    | 0.0022* |
| app_id[WordPress]*summarized[0]           | -3.550816 |  | 1.154565  | -3.08   | 0.0022* |
| app_id[eWeLink]*summarized[1]             | -1.269423 |  | 1.169728  | -1.09   | 0.2785  |
| app_id[eWeLink]*summarized[0]             | 1.2694232 |  | 1.169728  | 1.09    | 0.2785  |
| app_id[Open Energy Monitor]*summarized[1] | -0.690705 |  | 0.878308  | -0.79   | 0.4321  |
| app_id[Open Energy Monitor]*summarized[0] | 0.690705  |  | 0.878308  | 0.79    | 0.4321  |
| app_id[JetRacer]*summarized[1]            | -0.721766 |  | 1.001061  | -0.72   | 0.4713  |
| app_id[JetRacer]*summarized[0]            | 0.7217661 |  | 1.001061  | 0.72    | 0.4713  |
| app_id[BookInfo]*summarized[1]            | -0.445697 |  | 1.277409  | -0.35   | 0.7273  |
| app_id[BookInfo]*summarized[0]            | 0.4456975 |  | 1.277409  | 0.35    | 0.7273  |
| app_id[Stack4Things]*summarized[1]        | -0.423224 |  | 1.044618  | -0.41   | 0.6856  |
| app_id[Stack4Things]*summarized[0]        | 0.4232239 |  | 1.044618  | 0.41    | 0.6856  |

**Fit Group****Response graph\_edit\_distance****Scaled Estimates**

| Term                      | Scaled Estimate | Std Error | t Ratio | Prob> t |
|---------------------------|-----------------|-----------|---------|---------|
| version[v3]*rag[1]        | -0.017876       | 0.715494  | -0.02   | 0.9801  |
| version[v3]*rag[0]        | 0.0178759       | 0.715494  | 0.02    | 0.9801  |
| version[v2]*rag[1]        | -0.537996       | 0.846616  | -0.64   | 0.5255  |
| version[v2]*rag[0]        | 0.5379956       | 0.846616  | 0.64    | 0.5255  |
| version[v1]*rag[1]        | 0.5558714       | 0.906866  | 0.61    | 0.5402  |
| version[v1]*rag[0]        | -0.555871       | 0.906866  | -0.61   | 0.5402  |
| version[v3]*summarized[1] | -0.127478       | 0.607506  | -0.21   | 0.8339  |
| version[v3]*summarized[0] | 0.1274784       | 0.607506  | 0.21    | 0.8339  |
| version[v2]*summarized[1] | -0.146781       | 0.686986  | -0.21   | 0.8309  |
| version[v2]*summarized[0] | 0.1467811       | 0.686986  | 0.21    | 0.8309  |
| version[v1]*summarized[1] | 0.2742594       | 0.731876  | 0.37    | 0.7080  |
| version[v1]*summarized[0] | -0.274259       | 0.731876  | -0.37   | 0.7080  |
| rag[1]*summarized[1]      | 0.172436        | 0.532468  | 0.32    | 0.7462  |
| rag[1]*summarized[0]      | -0.172436       | 0.532468  | -0.32   | 0.7462  |
| rag[0]*summarized[1]      | -0.172436       | 0.532468  | -0.32   | 0.7462  |
| rag[0]*summarized[0]      | 0.172436        | 0.532468  | 0.32    | 0.7462  |

**Prediction Profiler**

**Fit Group****Response validity\_edit\_distance****Actual by Predicted Plot**

RMSE=10.938 RSq=0.55

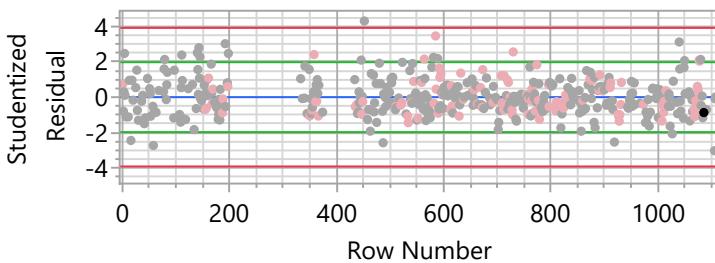
PValue=&lt;.0001

**Effect Summary**

| Source             | Logworth | PValue  |
|--------------------|----------|---------|
| app_id             | 38.682   | 0.00000 |
| summarized         | 20.170   | 0.00000 |
| rag                | 3.244    | 0.00057 |
| app_id*summarized  | 1.589    | 0.02579 |
| version            | 0.720    | 0.19033 |
| version*summarized | 0.433    | 0.36860 |
| app_id*version     | 0.391    | 0.40635 |
| rag*summarized     | 0.296    | 0.50581 |
| version*rag        | 0.221    | 0.60119 |

**Lack Of Fit**

| Source      | DF  | Sum of    |             |          |
|-------------|-----|-----------|-------------|----------|
|             |     | Squares   | Mean Square | F Ratio  |
| Lack Of Fit | 28  | 13703.122 | 489.397     | 5.2683   |
| Pure Error  | 387 | 35949.975 | 92.894      | Prob > F |
| Total Error | 415 | 49653.097 |             | <.0001*  |
| Max RSq     |     |           |             |          |
| 0.6745      |     |           |             |          |

**Studentized Residuals**

Externally studentized residuals with 95% simultaneous limits

(Bonferroni) in red, individual limits in green.

**Fit Group****Response validity\_edit\_distance****Effect Tests**

| Source             | Nparm | DF | Sum of    |         |          |
|--------------------|-------|----|-----------|---------|----------|
|                    |       |    | Squares   | F Ratio | Prob > F |
| app_id             | 5     | 5  | 28947.605 | 48.3887 | <.0001*  |
| version            | 2     | 2  | 398.579   | 1.6657  | 0.1903   |
| rag                | 1     | 1  | 1442.680  | 12.0579 | 0.0006*  |
| summarized         | 1     | 1  | 11734.586 | 98.0775 | <.0001*  |
| app_id*version     | 10    | 10 | 1247.596  | 1.0427  | 0.4063   |
| app_id*summarized  | 5     | 5  | 1544.059  | 2.5810  | 0.0258*  |
| version*rag        | 2     | 2  | 121.912   | 0.5095  | 0.6012   |
| version*summarized | 2     | 2  | 239.401   | 1.0005  | 0.3686   |
| rag*summarized     | 1     | 1  | 53.062    | 0.4435  | 0.5058   |

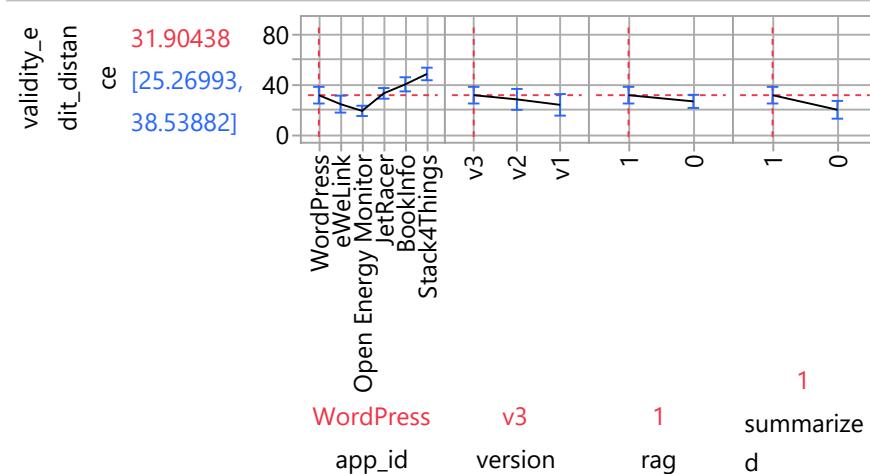
**Scaled Estimates**

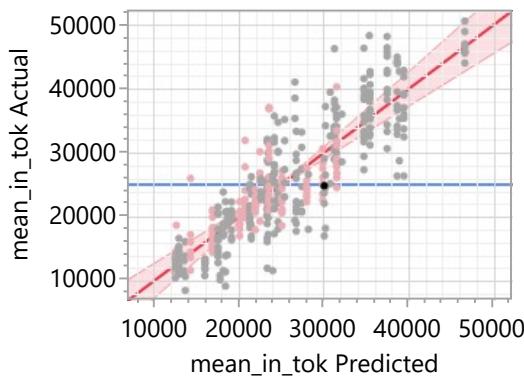
Nominal factors expanded to all levels

| Term                                      | Scaled Estimate | Scaled    |         |         |
|---|-----------------|-----------|---------|---------|
|   |                 | Std Error | t Ratio | Prob> t |
| rag[1]                                    | 2.3995505       | 0.691025  | 3.47    | 0.0006* |
| rag[0]                                    | -2.399551       | 0.691025  | -3.47   | 0.0006* |
| summarized[1]                             | 6.1559084       | 0.621595  | 9.90    | <.0001* |
| summarized[0]                             | -6.155908       | 0.621595  | -9.90   | <.0001* |
| app_id[WordPress]*version[v3]             | 3.4645458       | 1.849138  | 1.87    | 0.0617  |
| app_id[WordPress]*version[v2]             | -2.310133       | 1.961833  | -1.18   | 0.2397  |
| app_id[WordPress]*version[v1]             | -1.154413       | 2.062569  | -0.56   | 0.5760  |
| app_id[eWeLink]*version[v3]               | 1.9895396       | 1.870095  | 1.06    | 0.2880  |
| app_id[eWeLink]*version[v2]               | -1.025526       | 1.991083  | -0.52   | 0.6068  |
| app_id[eWeLink]*version[v1]               | -0.964013       | 2.229257  | -0.43   | 0.6656  |
| app_id[Open Energy Monitor]*version[v3]   | -0.555515       | 1.374157  | -0.40   | 0.6862  |
| app_id[Open Energy Monitor]*version[v2]   | -1.07105        | 1.589976  | -0.67   | 0.5009  |
| app_id[Open Energy Monitor]*version[v1]   | 1.6265653       | 1.652775  | 0.98    | 0.3256  |
| app_id[JetRacer]*version[v3]              | -3.42941        | 1.562631  | -2.19   | 0.0287* |
| app_id[JetRacer]*version[v2]              | 3.0629908       | 1.857514  | 1.65    | 0.0999  |
| app_id[JetRacer]*version[v1]              | 0.3664189       | 1.927407  | 0.19    | 0.8493  |
| app_id[BookInfo]*version[v3]              | -0.14527        | 1.926067  | -0.08   | 0.9399  |
| app_id[BookInfo]*version[v2]              | -1.207941       | 2.417271  | -0.50   | 0.6175  |
| app_id[BookInfo]*version[v1]              | 1.3532109       | 2.430743  | 0.56    | 0.5780  |
| app_id[Stack4Things]*version[v3]          | -1.323891       | 1.689796  | -0.78   | 0.4338  |
| app_id[Stack4Things]*version[v2]          | 2.55166         | 1.940754  | 1.31    | 0.1893  |
| app_id[Stack4Things]*version[v1]          | -1.227769       | 2.291181  | -0.54   | 0.5923  |
| app_id[WordPress]*summarized[1]           | 0.939835        | 1.361325  | 0.69    | 0.4903  |
| app_id[WordPress]*summarized[0]           | -0.939835       | 1.361325  | -0.69   | 0.4903  |
| app_id[eWeLink]*summarized[1]             | -2.092524       | 1.379204  | -1.52   | 0.1300  |
| app_id[eWeLink]*summarized[0]             | 2.0925238       | 1.379204  | 1.52    | 0.1300  |
| app_id[Open Energy Monitor]*summarized[1] | -2.539248       | 1.035597  | -2.45   | 0.0146* |
| app_id[Open Energy Monitor]*summarized[0] | 2.539248        | 1.035597  | 2.45    | 0.0146* |
| app_id[JetRacer]*summarized[1]            | -0.731711       | 1.180332  | -0.62   | 0.5357  |
| app_id[JetRacer]*summarized[0]            | 0.7317107       | 1.180332  | 0.62    | 0.5357  |
| app_id[BookInfo]*summarized[1]            | 2.1186086       | 1.506169  | 1.41    | 0.1603  |
| app_id[BookInfo]*summarized[0]            | -2.118609       | 1.506169  | -1.41   | 0.1603  |
| app_id[Stack4Things]*summarized[1]        | 2.3050389       | 1.231689  | 1.87    | 0.0620  |
| app_id[Stack4Things]*summarized[0]        | -2.305039       | 1.231689  | -1.87   | 0.0620  |

**Fit Group****Response validity\_edit\_distance****Scaled Estimates**

| Term                      | Scaled Estimate | Std Error | t Ratio | Prob> t |
|---------------------------|-----------------|-----------|---------|---------|
| version[v3]*rag[1]        | 0.4892395       | 0.843625  | 0.58    | 0.5623  |
| version[v3]*rag[0]        | -0.489239       | 0.843625  | -0.58   | 0.5623  |
| version[v2]*rag[1]        | 0.5828502       | 0.998229  | 0.58    | 0.5596  |
| version[v2]*rag[0]        | -0.58285        | 0.998229  | -0.58   | 0.5596  |
| version[v1]*rag[1]        | -1.07209        | 1.069268  | -1.00   | 0.3166  |
| version[v1]*rag[0]        | 1.0720896       | 1.069268  | 1.00    | 0.3166  |
| version[v3]*summarized[1] | -0.856402       | 0.716299  | -1.20   | 0.2325  |
| version[v3]*summarized[0] | 0.8564018       | 0.716299  | 1.20    | 0.2325  |
| version[v2]*summarized[1] | 0.9241842       | 0.810012  | 1.14    | 0.2545  |
| version[v2]*summarized[0] | -0.924184       | 0.810012  | -1.14   | 0.2545  |
| version[v1]*summarized[1] | -0.067782       | 0.862941  | -0.08   | 0.9374  |
| version[v1]*summarized[0] | 0.0677824       | 0.862941  | 0.08    | 0.9374  |
| rag[1]*summarized[1]      | -0.418098       | 0.627822  | -0.67   | 0.5058  |
| rag[1]*summarized[0]      | 0.4180977       | 0.627822  | 0.67    | 0.5058  |
| rag[0]*summarized[1]      | 0.4180977       | 0.627822  | 0.67    | 0.5058  |
| rag[0]*summarized[0]      | -0.418098       | 0.627822  | -0.67   | 0.5058  |

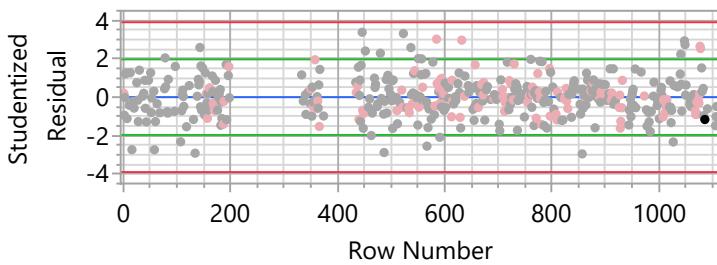
**Prediction Profiler**

**Fit Group****Response mean\_in\_tok****Actual by Predicted Plot****Effect Summary**

| Source             | Logworth | PValue  |
|--------------------|----------|---------|
| summarized         | 44.433   | 0.00000 |
| app_id             | 41.604   | 0.00000 |
| rag                | 32.315   | 0.00000 |
| version            | 13.279   | 0.00000 |
| app_id*version     | 5.259    | 0.00001 |
| app_id*summarized  | 2.464    | 0.00343 |
| version*summarized | 0.590    | 0.25696 |
| version*rag        | 0.077    | 0.83684 |
| rag*summarized     | 0.072    | 0.84715 |

**Lack Of Fit**

| Source         | DF  | Sum of     |             |          |
|----------------|-----|------------|-------------|----------|
|                |     | Squares    | Mean Square | F Ratio  |
| Lack Of Fit    | 28  | 2162935433 | 77247694    | 4.4654   |
| Pure Error     | 387 | 6694717691 | 17299012    | Prob > F |
| Total Error    | 415 | 8857653124 |             | <.0001*  |
| <b>Max RSq</b> |     |            |             |          |
| 0.8228         |     |            |             |          |

**Studentized Residuals**

Externally studentized residuals with 95% simultaneous limits (Bonferroni) in red, individual limits in green.

**Fit Group****Response mean\_in\_tok****Effect Tests**

| Source             | Nparm | DF | Sum of      |          |          |
|--------------------|-------|----|-------------|----------|----------|
|                    |       |    | Squares     | F Ratio  | Prob > F |
| app_id             | 5     | 5  | 5631630520  | 52.7708  | <.0001*  |
| version            | 2     | 2  | 1406301850  | 32.9441  | <.0001*  |
| rag                | 1     | 1  | 3660641776  | 171.5089 | <.0001*  |
| summarized         | 1     | 1  | 15453415679 | 255.5042 | <.0001*  |
| app_id*version     | 10    | 10 | 951549806   | 4.4582   | <.0001*  |
| app_id*summarized  | 5     | 5  | 383225593   | 3.5910   | 0.0034*  |
| version*rag        | 2     | 2  | 7607093.97  | 0.1782   | 0.8368   |
| version*summarized | 2     | 2  | 58195568.4  | 1.3633   | 0.2570   |
| rag*summarized     | 1     | 1  | 794039.585  | 0.0372   | 0.8471   |

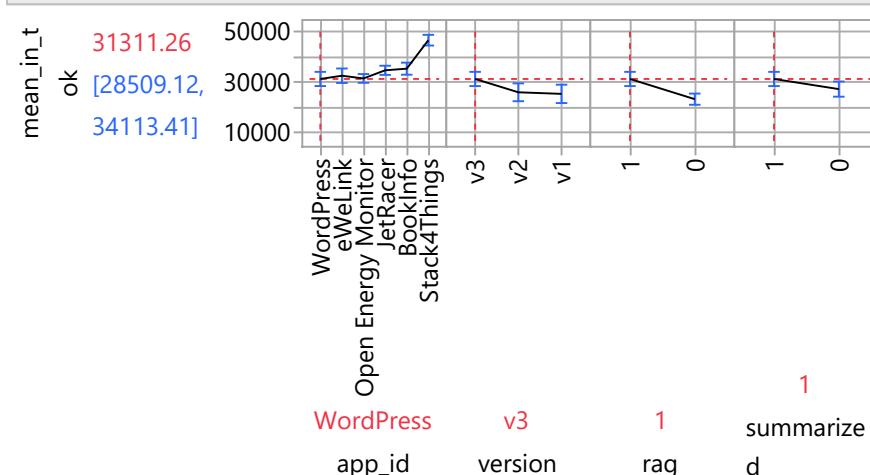
**Scaled Estimates**

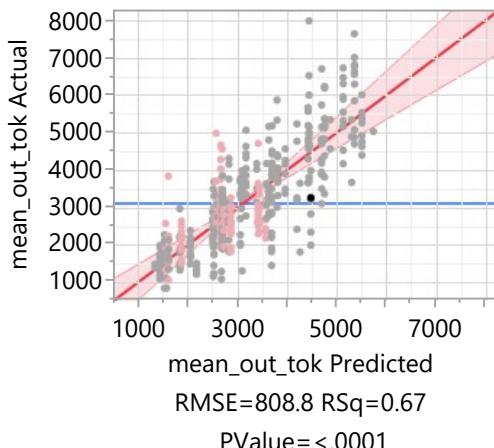
Nominal factors expanded to all levels

| Term                                      | Scaled Estimate | Scaled    |         |         |
|---|-----------------|-----------|---------|---------|
|   |                 | Std Error | t Ratio | Prob> t |
| rag[1]                                    | 3822.289        | 291.8638  | 13.10   | <.0001* |
| rag[0]                                    | -3822.289       | 291.8638  | -13.10  | <.0001* |
| summarized[1]                             | 4196.5516       | 262.5388  | 15.98   | <.0001* |
| summarized[0]                             | -4196.552       | 262.5388  | -15.98  | <.0001* |
| app_id[WordPress]*version[v3]             | 1302.5299       | 781.008   | 1.67    | 0.0961  |
| app_id[WordPress]*version[v2]             | -701.9684       | 828.6064  | -0.85   | 0.3974  |
| app_id[WordPress]*version[v1]             | -600.5616       | 871.1533  | -0.69   | 0.4910  |
| app_id[eWeLink]*version[v3]               | 165.15545       | 789.8597  | 0.21    | 0.8345  |
| app_id[eWeLink]*version[v2]               | -453.8472       | 840.9603  | -0.54   | 0.5897  |
| app_id[eWeLink]*version[v1]               | 288.69176       | 941.5562  | 0.31    | 0.7593  |
| app_id[Open Energy Monitor]*version[v3]   | -693.8093       | 580.3934  | -1.20   | 0.2326  |
| app_id[Open Energy Monitor]*version[v2]   | 928.57207       | 671.5476  | 1.38    | 0.1675  |
| app_id[Open Energy Monitor]*version[v1]   | -234.7628       | 698.0715  | -0.34   | 0.7368  |
| app_id[JetRacer]*version[v3]              | -3562.49        | 659.998   | -5.40   | <.0001* |
| app_id[JetRacer]*version[v2]              | 2424.547        | 784.5456  | 3.09    | 0.0021* |
| app_id[JetRacer]*version[v1]              | 1137.943        | 814.0661  | 1.40    | 0.1629  |
| app_id[BookInfo]*version[v3]              | 222.73056       | 813.4998  | 0.27    | 0.7844  |
| app_id[BookInfo]*version[v2]              | -308.6517       | 1020.966  | -0.30   | 0.7626  |
| app_id[BookInfo]*version[v1]              | 85.921134       | 1026.656  | 0.08    | 0.9333  |
| app_id[Stack4Things]*version[v3]          | 2565.8833       | 713.7077  | 3.60    | 0.0004* |
| app_id[Stack4Things]*version[v2]          | -1888.652       | 819.7033  | -2.30   | 0.0217* |
| app_id[Stack4Things]*version[v1]          | -677.2315       | 967.7107  | -0.70   | 0.4844  |
| app_id[WordPress]*summarized[1]           | -1649.197       | 574.9739  | -2.87   | 0.0043* |
| app_id[WordPress]*summarized[0]           | 1649.1967       | 574.9739  | 2.87    | 0.0043* |
| app_id[eWeLink]*summarized[1]             | -216.5822       | 582.5253  | -0.37   | 0.7102  |
| app_id[eWeLink]*summarized[0]             | 216.58217       | 582.5253  | 0.37    | 0.7102  |
| app_id[Open Energy Monitor]*summarized[1] | -429.8113       | 437.398   | -0.98   | 0.3263  |
| app_id[Open Energy Monitor]*summarized[0] | 429.8113        | 437.398   | 0.98    | 0.3263  |
| app_id[JetRacer]*summarized[1]            | 1621.4647       | 498.5291  | 3.25    | 0.0012* |
| app_id[JetRacer]*summarized[0]            | -1621.465       | 498.5291  | -3.25   | 0.0012* |
| app_id[BookInfo]*summarized[1]            | 733.3885        | 636.1507  | 1.15    | 0.2496  |
| app_id[BookInfo]*summarized[0]            | -733.3885       | 636.1507  | -1.15   | 0.2496  |
| app_id[Stack4Things]*summarized[1]        | -59.26311       | 520.2202  | -0.11   | 0.9094  |
| app_id[Stack4Things]*summarized[0]        | 59.263115       | 520.2202  | 0.11    | 0.9094  |

**Fit Group****Response mean\_in\_tok****Scaled Estimates**

| Term                      | Scaled Estimate | Std Error | t Ratio | Prob> t |
|---------------------------|-----------------|-----------|---------|---------|
| version[v3]*rag[1]        | 212.31998       | 356.3163  | 0.60    | 0.5516  |
| version[v3]*rag[0]        | -212.32         | 356.3163  | -0.60   | 0.5516  |
| version[v2]*rag[1]        | -69.70383       | 421.6154  | -0.17   | 0.8688  |
| version[v2]*rag[0]        | 69.703835       | 421.6154  | 0.17    | 0.8688  |
| version[v1]*rag[1]        | -142.6161       | 451.6196  | -0.32   | 0.7523  |
| version[v1]*rag[0]        | 142.61615       | 451.6196  | 0.32    | 0.7523  |
| version[v3]*summarized[1] | -496.4412       | 302.5383  | -1.64   | 0.1016  |
| version[v3]*summarized[0] | 496.44115       | 302.5383  | 1.64    | 0.1016  |
| version[v2]*summarized[1] | 264.06582       | 342.1195  | 0.77    | 0.4406  |
| version[v2]*summarized[0] | -264.0658       | 342.1195  | -0.77   | 0.4406  |
| version[v1]*summarized[1] | 232.37533       | 364.4745  | 0.64    | 0.5241  |
| version[v1]*summarized[0] | -232.3753       | 364.4745  | -0.64   | 0.5241  |
| rag[1]*summarized[1]      | -51.14566       | 265.1691  | -0.19   | 0.8471  |
| rag[1]*summarized[0]      | 51.145659       | 265.1691  | 0.19    | 0.8471  |
| rag[0]*summarized[1]      | 51.145659       | 265.1691  | 0.19    | 0.8471  |
| rag[0]*summarized[0]      | -51.14566       | 265.1691  | -0.19   | 0.8471  |

**Prediction Profiler**

**Fit Group****Response mean\_out\_tok****Actual by Predicted Plot****Effect Summary**

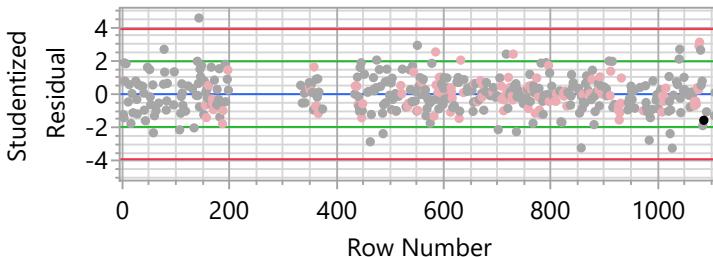
| Source             | Logworth | PValue    |
|--------------------|----------|-----------|
| app_id             | 42.485   | 0.00000   |
| summarized         | 29.406   | 0.00000   |
| rag                | 18.204   | 0.00000   |
| app_id*summarized  | 1.934    | 0.01165   |
| app_id*version     | 1.583    | 0.02610   |
| rag*summarized     | 0.712    | 0.19411   |
| version*summarized | 0.601    | 0.25039   |
| version*rag        | 0.090    | 0.81285   |
| version            | 0.006    | 0.98565 ^ |

**Lack Of Fit**

| Source      | DF  | Sum of    |             |          |
|-------------|-----|-----------|-------------|----------|
|             |     | Squares   | Mean Square | F Ratio  |
| Lack Of Fit | 28  | 105961791 | 3784350     | 8.8486   |
| Pure Error  | 387 | 165511546 | 427678      | Prob > F |
| Total Error | 415 | 271473337 |             | <.0001*  |

**Max RSq**

0.8017

**Studentized Residuals**

Externally studentized residuals with 95% simultaneous limits (Bonferroni) in red, individual limits in green.

**Fit Group****Response mean\_out\_tok****Effect Tests**

| Source             | Nparm | DF | Sum of    |          |          |
|--------------------|-------|----|-----------|----------|----------|
|                    |       |    | Squares   | F Ratio  | Prob > F |
| app_id             | 5     | 5  | 177017422 | 54.1211  | <.0001*  |
| version            | 2     | 2  | 18907     | 0.0145   | 0.9857   |
| rag                | 1     | 1  | 56987980  | 87.1173  | <.0001*  |
| summarized         | 1     | 1  | 100078659 | 152.9898 | <.0001*  |
| app_id*version     | 10    | 10 | 13511807  | 2.0655   | 0.0261*  |
| app_id*summarized  | 5     | 5  | 9762513   | 2.9848   | 0.0117*  |
| version*rag        | 2     | 2  | 271231    | 0.2073   | 0.8128   |
| version*summarized | 2     | 2  | 1817717   | 1.3894   | 0.2504   |
| rag*summarized     | 1     | 1  | 1106579   | 1.6916   | 0.1941   |

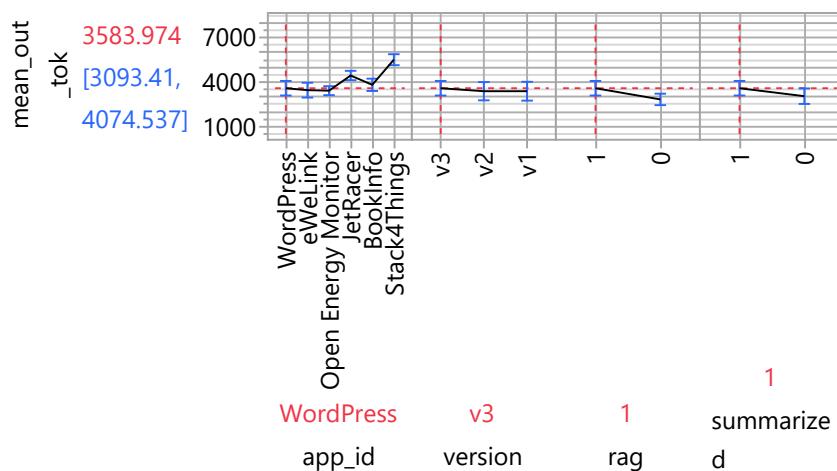
**Scaled Estimates**

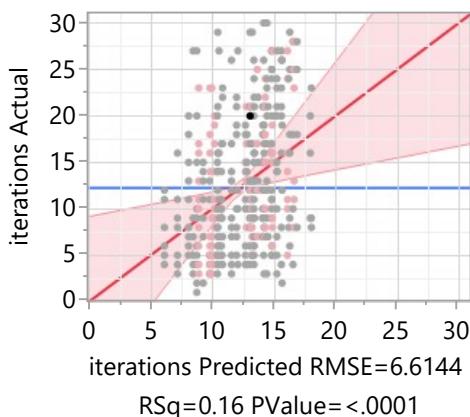
Nominal factors expanded to all levels

| Term                                      | Scaled Estimate | Scaled    |         |         |
|---|-----------------|-----------|---------|---------|
|   |                 | Std Error | t Ratio | Prob> t |
| rag[1]                                    | 476.91012       | 51.09571  | 9.33    | <.0001* |
| rag[0]                                    | -476.9101       | 51.09571  | -9.33   | <.0001* |
| summarized[1]                             | 568.49808       | 45.96188  | 12.37   | <.0001* |
| summarized[0]                             | -568.4981       | 45.96188  | -12.37  | <.0001* |
| app_id[WordPress]*version[v3]             | 252.2749        | 136.7287  | 1.85    | 0.0657  |
| app_id[WordPress]*version[v2]             | -136.1595       | 145.0616  | -0.94   | 0.3485  |
| app_id[WordPress]*version[v1]             | -116.1154       | 152.5102  | -0.76   | 0.4469  |
| app_id[eWeLink]*version[v3]               | 73.060176       | 138.2784  | 0.53    | 0.5975  |
| app_id[eWeLink]*version[v2]               | -95.70356       | 147.2244  | -0.65   | 0.5160  |
| app_id[eWeLink]*version[v1]               | 22.64338        | 164.8354  | 0.14    | 0.8908  |
| app_id[Open Energy Monitor]*version[v3]   | 61.202461       | 101.6077  | 0.60    | 0.5473  |
| app_id[Open Energy Monitor]*version[v2]   | 22.332087       | 117.5658  | 0.19    | 0.8494  |
| app_id[Open Energy Monitor]*version[v1]   | -83.53455       | 122.2093  | -0.68   | 0.4946  |
| app_id[JetRacer]*version[v3]              | -414.9691       | 115.5439  | -3.59   | 0.0004* |
| app_id[JetRacer]*version[v2]              | 310.74692       | 137.348   | 2.26    | 0.0242* |
| app_id[JetRacer]*version[v1]              | 104.22216       | 142.5161  | 0.73    | 0.4650  |
| app_id[BookInfo]*version[v3]              | -82.83628       | 142.417   | -0.58   | 0.5611  |
| app_id[BookInfo]*version[v2]              | 182.84251       | 178.7375  | 1.02    | 0.3069  |
| app_id[BookInfo]*version[v1]              | -100.0062       | 179.7337  | -0.56   | 0.5782  |
| app_id[Stack4Things]*version[v3]          | 111.26782       | 124.9467  | 0.89    | 0.3737  |
| app_id[Stack4Things]*version[v2]          | -284.0585       | 143.503   | -1.98   | 0.0484* |
| app_id[Stack4Things]*version[v1]          | 172.79068       | 169.4142  | 1.02    | 0.3084  |
| app_id[WordPress]*summarized[1]           | -154.62         | 100.6589  | -1.54   | 0.1253  |
| app_id[WordPress]*summarized[0]           | 154.62          | 100.6589  | 1.54    | 0.1253  |
| app_id[eWeLink]*summarized[1]             | -114.3094       | 101.9809  | -1.12   | 0.2630  |
| app_id[eWeLink]*summarized[0]             | 114.30938       | 101.9809  | 1.12    | 0.2630  |
| app_id[Open Energy Monitor]*summarized[1] | -147.2999       | 76.57394  | -1.92   | 0.0551  |
| app_id[Open Energy Monitor]*summarized[0] | 147.29989       | 76.57394  | 1.92    | 0.0551  |
| app_id[JetRacer]*summarized[1]            | 211.94307       | 87.27599  | 2.43    | 0.0156* |
| app_id[JetRacer]*summarized[0]            | -211.9431       | 87.27599  | -2.43   | 0.0156* |
| app_id[BookInfo]*summarized[1]            | 220.33777       | 111.369   | 1.98    | 0.0485* |
| app_id[BookInfo]*summarized[0]            | -220.3378       | 111.369   | -1.98   | 0.0485* |
| app_id[Stack4Things]*summarized[1]        | -16.05158       | 91.07339  | -0.18   | 0.8602  |
| app_id[Stack4Things]*summarized[0]        | 16.051579       | 91.07339  | 0.18    | 0.8602  |

**Fit Group****Response mean\_out\_tok****Scaled Estimates**

| Term                      | Scaled Estimate | Std Error | t Ratio | Prob> t |
|---------------------------|-----------------|-----------|---------|---------|
| version[v3]*rag[1]        | -39.77309       | 62.37921  | -0.64   | 0.5241  |
| version[v3]*rag[0]        | 39.773093       | 62.37921  | 0.64    | 0.5241  |
| version[v2]*rag[1]        | 22.038315       | 73.81093  | 0.30    | 0.7654  |
| version[v2]*rag[0]        | -22.03831       | 73.81093  | -0.30   | 0.7654  |
| version[v1]*rag[1]        | 17.734779       | 79.06368  | 0.22    | 0.8226  |
| version[v1]*rag[0]        | -17.73478       | 79.06368  | -0.22   | 0.8226  |
| version[v3]*summarized[1] | -85.61519       | 52.96446  | -1.62   | 0.1068  |
| version[v3]*summarized[0] | 85.615189       | 52.96446  | 1.62    | 0.1068  |
| version[v2]*summarized[1] | 58.115641       | 59.89383  | 0.97    | 0.3325  |
| version[v2]*summarized[0] | -58.11564       | 59.89383  | -0.97   | 0.3325  |
| version[v1]*summarized[1] | 27.499548       | 63.80745  | 0.43    | 0.6667  |
| version[v1]*summarized[0] | -27.49955       | 63.80745  | -0.43   | 0.6667  |
| rag[1]*summarized[1]      | -60.37803       | 46.42236  | -1.30   | 0.1941  |
| rag[1]*summarized[0]      | 60.378026       | 46.42236  | 1.30    | 0.1941  |
| rag[0]*summarized[1]      | 60.378026       | 46.42236  | 1.30    | 0.1941  |
| rag[0]*summarized[0]      | -60.37803       | 46.42236  | -1.30   | 0.1941  |

**Prediction Profiler**

**Fit Group****Response iterations****Actual by Predicted Plot****Effect Summary**

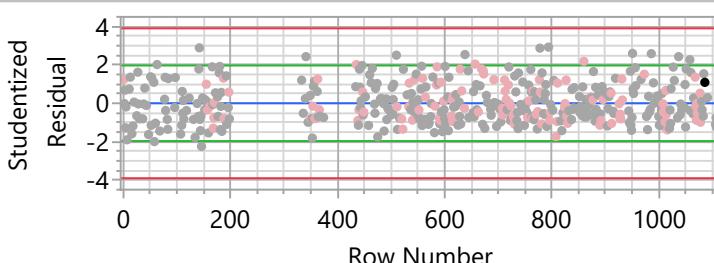
| Source             | Logworth | PValue  |
|--------------------|----------|---------|
| version            | 4.200    | 0.00006 |
| app_id             | 2.558    | 0.00277 |
| summarized         | 0.800    | 0.15850 |
| rag                | 0.394    | 0.40371 |
| version*rag        | 0.334    | 0.46377 |
| app_id*version     | 0.275    | 0.53136 |
| app_id*summarized  | 0.272    | 0.53424 |
| rag*summarized     | 0.188    | 0.64808 |
| version*summarized | 0.011    | 0.97535 |

**Lack Of Fit**

| Source      | DF  | Sum of    |             |          |
|-------------|-----|-----------|-------------|----------|
|             |     | Squares   | Mean Square | F Ratio  |
| Lack Of Fit | 28  | 1153.355  | 41.1912     | 0.9375   |
| Pure Error  | 387 | 17002.924 | 43.9352     | Prob > F |
| Total Error | 415 | 18156.279 |             | 0.5597   |

**Max RSq**

0.2112

**Studentized Residuals**

Externally studentized residuals with 95% simultaneous limits  
(Bonferroni) in red, individual limits in green.

**Fit Group****Response iterations****Effect Tests**

| Source             | Nparm | DF | Sum of    |         |          |
|--------------------|-------|----|-----------|---------|----------|
|                    |       |    | Squares   | F Ratio | Prob > F |
| app_id             | 5     | 5  | 808.49160 | 3.6960  | 0.0028*  |
| version            | 2     | 2  | 866.17721 | 9.8992  | <.0001*  |
| rag                | 1     | 1  | 30.56647  | 0.6987  | 0.4037   |
| summarized         | 1     | 1  | 87.30927  | 1.9956  | 0.1585   |
| app_id*version     | 10    | 10 | 394.57120 | 0.9019  | 0.5314   |
| app_id*summarized  | 5     | 5  | 179.88178 | 0.8223  | 0.5342   |
| version*rag        | 2     | 2  | 67.35630  | 0.7698  | 0.4638   |
| version*summarized | 2     | 2  | 2.18389   | 0.0250  | 0.9754   |
| rag*summarized     | 1     | 1  | 9.12790   | 0.2086  | 0.6481   |

**Scaled Estimates**

Nominal factors expanded to all levels

| Term                                    | Scaled Estimate | Scaled    |         |         |
|---|-----------------|-----------|---------|---------|
|   |                 | Std Error | t Ratio | Prob> t |
| Intercept                               | 12.906668       | 0.377403  | 34.20   | <.0001* |
| app_id[WordPress]                       | -2.280003       | 0.836387  | -2.73   | 0.0067* |
| app_id[eWeLink]                         | 0.3046534       | 0.871156  | 0.35    | 0.7267  |
| app_id[Open Energy Monitor]             | -0.112718       | 0.661458  | -0.17   | 0.8648  |
| app_id[JetRacer]                        | -1.496454       | 0.770398  | -1.94   | 0.0528  |
| app_id[BookInfo]                        | 1.2647618       | 0.962206  | 1.31    | 0.1894  |
| app_id[Stack4Things]                    | 2.3197597       | 0.851801  | 2.72    | 0.0067* |
| version[v3]                             | -2.083387       | 0.476371  | -4.37   | <.0001* |
| version[v2]                             | 1.3695701       | 0.554226  | 2.47    | 0.0139* |
| version[v1]                             | 0.7138173       | 0.571579  | 1.25    | 0.2124  |
| rag[1]                                  | 0.349275        | 0.417863  | 0.84    | 0.4037  |
| rag[0]                                  | -0.349275       | 0.417863  | -0.84   | 0.4037  |
| summarized[1]                           | 0.5309926       | 0.375879  | 1.41    | 0.1585  |
| summarized[0]                           | -0.530993       | 0.375879  | -1.41   | 0.1585  |
| app_id[WordPress]*version[v3]           | 1.453497        | 1.118174  | 1.30    | 0.1944  |
| app_id[WordPress]*version[v2]           | -0.943151       | 1.186321  | -0.80   | 0.4271  |
| app_id[WordPress]*version[v1]           | -0.510346       | 1.247236  | -0.41   | 0.6826  |
| app_id[eWeLink]*version[v3]             | 0.229703        | 1.130847  | 0.20    | 0.8391  |
| app_id[eWeLink]*version[v2]             | 0.5706113       | 1.204009  | 0.47    | 0.6358  |
| app_id[eWeLink]*version[v1]             | -0.800314       | 1.348032  | -0.59   | 0.5530  |
| app_id[Open Energy Monitor]*version[v3] | -0.997821       | 0.830953  | -1.20   | 0.2305  |
| app_id[Open Energy Monitor]*version[v2] | 1.1521158       | 0.961459  | 1.20    | 0.2315  |
| app_id[Open Energy Monitor]*version[v1] | -0.154295       | 0.999434  | -0.15   | 0.8774  |
| app_id[JetRacer]*version[v3]            | -1.876103       | 0.944924  | -1.99   | 0.0478* |
| app_id[JetRacer]*version[v2]            | 0.1974094       | 1.123239  | 0.18    | 0.8606  |
| app_id[JetRacer]*version[v1]            | 1.6786939       | 1.165504  | 1.44    | 0.1505  |
| app_id[BookInfo]*version[v3]            | -0.323991       | 1.164693  | -0.28   | 0.7810  |
| app_id[BookInfo]*version[v2]            | -0.620691       | 1.461725  | -0.42   | 0.6713  |
| app_id[BookInfo]*version[v1]            | 0.9446819       | 1.469871  | 0.64    | 0.5208  |
| app_id[Stack4Things]*version[v3]        | 1.5147153       | 1.02182   | 1.48    | 0.1390  |
| app_id[Stack4Things]*version[v2]        | -0.356295       | 1.173575  | -0.30   | 0.7616  |
| app_id[Stack4Things]*version[v1]        | -1.15842        | 1.385478  | -0.84   | 0.4036  |
| app_id[WordPress]*summarized[1]         | -1.510768       | 0.823194  | -1.84   | 0.0672  |
| app_id[WordPress]*summarized[0]         | 1.5107675       | 0.823194  | 1.84    | 0.0672  |

**Fit Group****Response iterations****Scaled Estimates**

| Term                                      | Scaled Estimate | Std Error | t Ratio | Prob> t |
|---|-----------------|-----------|---------|---------|
| app_id[eWeLink]*summarized[1]             | -0.053621       | 0.834005  | -0.06   | 0.9488  |
| app_id[eWeLink]*summarized[0]             | 0.0536208       | 0.834005  | 0.06    | 0.9488  |
| app_id[Open Energy Monitor]*summarized[1] | -0.156417       | 0.626226  | -0.25   | 0.8029  |
| app_id[Open Energy Monitor]*summarized[0] | 0.1564175       | 0.626226  | 0.25    | 0.8029  |
| app_id[JetRacer]*summarized[1]            | 0.3708146       | 0.713748  | 0.52    | 0.6037  |
| app_id[JetRacer]*summarized[0]            | -0.370815       | 0.713748  | -0.52   | 0.6037  |
| app_id[BookInfo]*summarized[1]            | 1.0251826       | 0.910781  | 1.13    | 0.2610  |
| app_id[BookInfo]*summarized[0]            | -1.025183       | 0.910781  | -1.13   | 0.2610  |
| app_id[Stack4Things]*summarized[1]        | 0.3248087       | 0.744803  | 0.44    | 0.6630  |
| app_id[Stack4Things]*summarized[0]        | -0.324809       | 0.744803  | -0.44   | 0.6630  |
| version[v3]*rag[1]                        | 0.0083619       | 0.51014   | 0.02    | 0.9869  |
| version[v3]*rag[0]                        | -0.008362       | 0.51014   | -0.02   | 0.9869  |
| version[v2]*rag[1]                        | 0.7022275       | 0.60363   | 1.16    | 0.2454  |
| version[v2]*rag[0]                        | -0.702228       | 0.60363   | -1.16   | 0.2454  |
| version[v1]*rag[1]                        | -0.710589       | 0.646587  | -1.10   | 0.2724  |
| version[v1]*rag[0]                        | 0.7105894       | 0.646587  | 1.10    | 0.2724  |
| version[v3]*summarized[1]                 | -0.093689       | 0.433146  | -0.22   | 0.8289  |
| version[v3]*summarized[0]                 | 0.0936892       | 0.433146  | 0.22    | 0.8289  |
| version[v2]*summarized[1]                 | 0.0642722       | 0.489815  | 0.13    | 0.8957  |
| version[v2]*summarized[0]                 | -0.064272       | 0.489815  | -0.13   | 0.8957  |
| version[v1]*summarized[1]                 | 0.029417        | 0.521821  | 0.06    | 0.9551  |
| version[v1]*summarized[0]                 | -0.029417       | 0.521821  | -0.06   | 0.9551  |
| rag[1]*summarized[1]                      | -0.17341        | 0.379644  | -0.46   | 0.6481  |
| rag[1]*summarized[0]                      | 0.1734096       | 0.379644  | 0.46    | 0.6481  |
| rag[0]*summarized[1]                      | 0.1734096       | 0.379644  | 0.46    | 0.6481  |
| rag[0]*summarized[0]                      | -0.17341        | 0.379644  | -0.46   | 0.6481  |

**Prediction Profiler**