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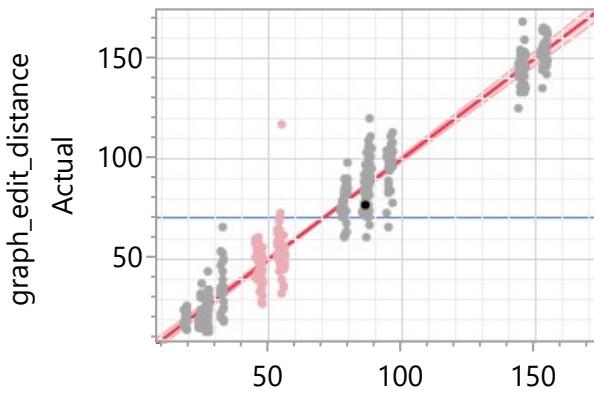
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Fit Group

Response graph_edit_distance

Actual by Predicted Plot



RMSE=9.3203 R Sq=0.95

PValue < 0.001

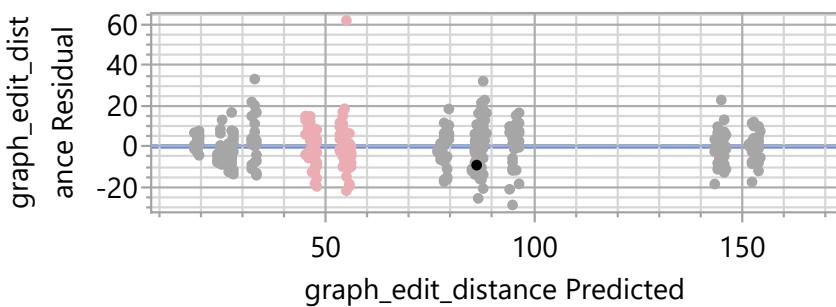
Effect Summary

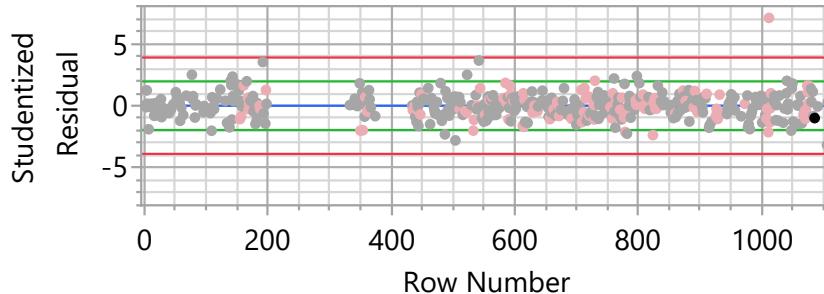
Source	Logworth	PValue
app_id	274.595	0.00000
summarized	18.099	0.00000
rag	0.861	0.13756
version	0.181	0.65859

Lack Of Fit

Source	DF	Sum of		
		Squares	Mean Square	F Ratio
Lack Of Fit	48	8636.664	179.930	2.3887
Pure Error	387	29150.657	75.325	Prob > F
Total Error	435	37787.321		<.0001*
				Max RSq
				0.9632

Residual by Predicted Plot



Fit Group**Response graph_edit_distance****Studentized Residuals**

Externally studentized residuals with 95% simultaneous limits

(Bonferroni) in red, individual limits in green.

Parameter Estimates

Term	Estimate	Std Error	t Ratio	Prob> t
Intercept	71.079744	0.508465	139.79	<.0001*
app_id[WordPress]	-41.75517	1.146106	-36.43	<.0001*
app_id[eWeLink]	-47.30869	1.170019	-40.43	<.0001*
app_id[Open Energy Monitor]	-20.53553	0.867992	-23.66	<.0001*
app_id[JetRacer]	11.269988	0.976071	11.55	<.0001*
app_id[BookInfo]	20.331741	1.209533	16.81	<.0001*
version[v3]	0.097578	0.59657	0.16	0.8701
version[v2]	0.5165363	0.669233	0.77	0.4406
rag[1]	0.7855085	0.528013	1.49	0.1376
summarized[1]	4.1346251	0.445464	9.28	<.0001*

Effect Tests

Source	Nparm	DF	Sum of Squares		Prob > F
			F Ratio	Prob > F	
app_id	5	5	678782.28	1562.801	<.0001*
version	2	2	72.63	0.4181	0.6586
rag	1	1	192.25	2.2132	0.1376
summarized	1	1	7483.50	86.1486	<.0001*

Effect Details**app_id****Least Squares Means Table**

Level	Least		50	100	150	Mean
	Sq Mean	Std Error				
WordPress	29.325	1.305	●			28.36
eWeLink	23.771	1.344	●			23.14
Open Energy Monitor	50.544	0.879	●			50.93
JetRacer	82.350	0.992		●		83.44
BookInfo	91.411	1.378		●		92.11
Stack4Things	149.077	1.142			●	148.74

Fit Group**Response graph_edit_distance****Effect Details****version****Least Squares Means Table**

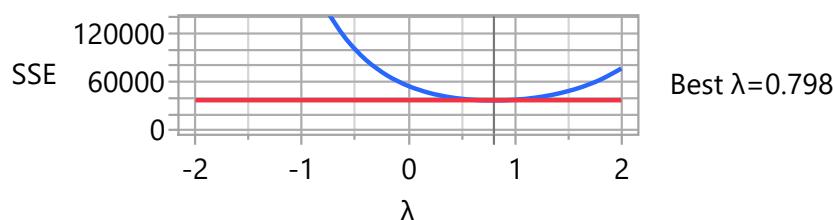
Level	Least			50	100	150	Mean
	Sq Mean	Std Error					
v3	71.1773	0.6775		•			75.764
v2	71.5963	0.8612		•			67.762
v1	70.4656	0.9391		•			64.447

rag**Least Squares Means Table**

Level	Least			50	100	150	Mean
	Sq Mean	Std Error					
1	71.8653	0.8367		•			84.972
0	70.2942	0.6120		•			61.658

summarized**Least Squares Means Table**

Level	Least			50	100	150	Mean
	Sq Mean	Std Error					
1	75.2144	0.6636		•			74.415
0	66.9451	0.6882		•			66.885

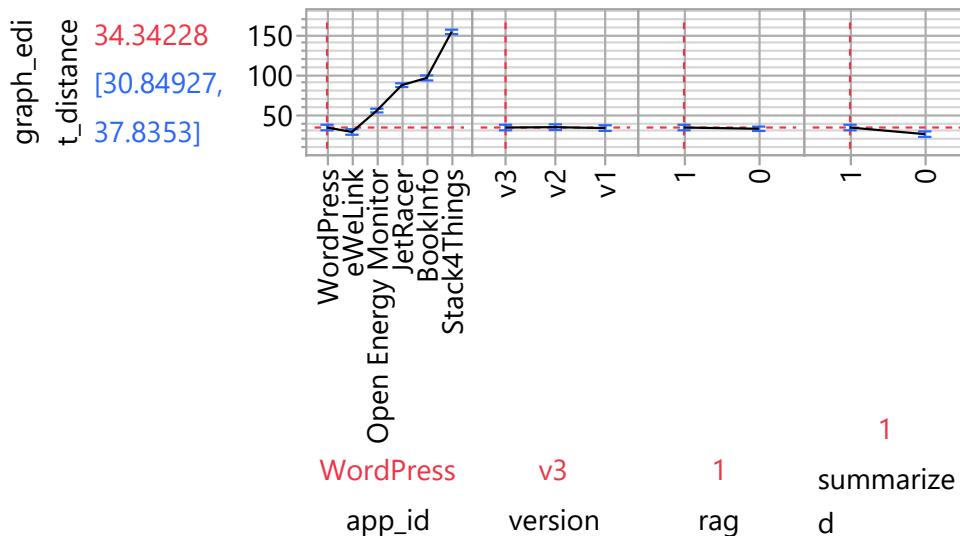
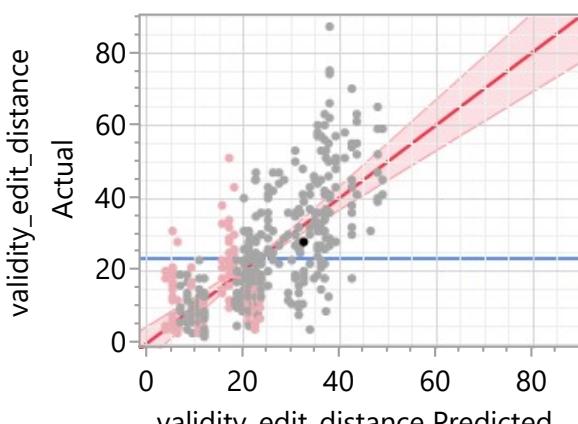
Box-Cox Transformations**Scaled Estimates**

Nominal factors expanded to all levels

Term	Scaled			Std Error	t Ratio	Prob> t
	Estimate					
Intercept	71.079744			0.508465	139.79	<.0001*
app_id[WordPress]	-41.75517			1.146106	-36.43	<.0001*
app_id[eWeLink]	-47.30869			1.170019	-40.43	<.0001*
app_id[Open Energy Monitor]	-20.53553			0.867992	-23.66	<.0001*
app_id[JetRacer]	11.269988			0.976071	11.55	<.0001*
app_id[BookInfo]	20.331741			1.209533	16.81	<.0001*
app_id[Stack4Things]	77.997657			1.033359	75.48	<.0001*
version[v3]	0.097578			0.59657	0.16	0.8701

Fit Group**Response graph_edit_distance****Scaled Estimates**

Term	Scaled Estimate	Std Error	t Ratio	Prob> t
version[v2]	0.5165363	0.669233	0.77	0.4406
version[v1]	-0.614114	0.709296	-0.87	0.3871
rag[1]	0.7855085	0.528013	1.49	0.1376
rag[0]	-0.785508	0.528013	-1.49	0.1376
summarized[1]	4.1346251	0.445464	9.28	<.0001*
summarized[0]	-4.134625	0.445464	-9.28	<.0001*

Prediction Profiler**Response validity_edit_distance****Actual by Predicted Plot**

Fit Group**Response validity_edit_distance****Effect Summary**

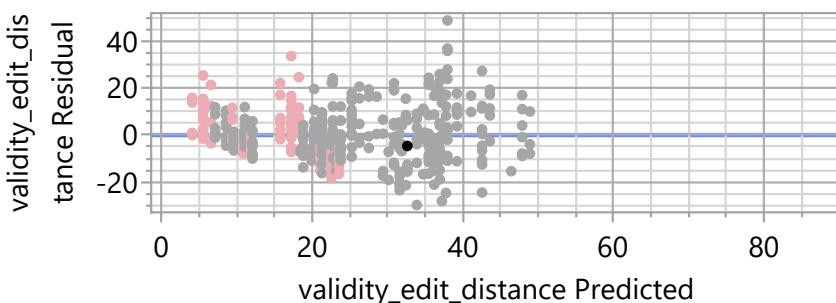
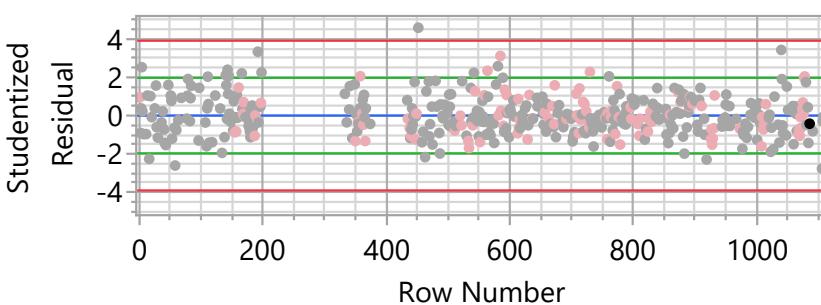
Source	Logworth	PValue
app_id	44.906	0.00000
summarized	24.506	0.00000
rag	4.586	0.00003
version	0.614	0.24329

Lack Of Fit

Source	DF	Sum of Squares		
		Mean Square	F Ratio	Prob > F
Lack Of Fit	48	17343.494	361.323	3.8896
Pure Error	387	35949.975	92.894	<.0001*
Total Error	435	53293.470		

Max RSq

0.6745

Residual by Predicted Plot**Studentized Residuals**

Externally studentized residuals with 95% simultaneous limits

(Bonferroni) in red, individual limits in green.

Parameter Estimates

Term	Estimate	Std Error	t Ratio	Prob> t
Intercept	24.724706	0.603844	40.95	<.0001*
app_id[WordPress]	-5.312456	1.361095	-3.90	0.0001*
app_id[eWeLink]	-7.788478	1.389494	-5.61	<.0001*
app_id[Open Energy Monitor]	-10.83912	1.030812	-10.52	<.0001*
app_id[JetRacer]	3.5644581	1.159165	3.08	0.0022*

Fit Group**Response validity_edit_distance****Parameter Estimates**

Term	Estimate	Std Error	t Ratio	Prob> t
app_id[BookInfo]	5.8504374	1.436421	4.07	<.0001*
version[v3]	0.1423587	0.708476	0.20	0.8408
version[v2]	1.1709756	0.79477	1.47	0.1414
rag[1]	2.6663121	0.627059	4.25	<.0001*
summarized[1]	5.8520024	0.529025	11.06	<.0001*

Effect Tests

Source	Nparm	DF	Sum of	F Ratio	Prob > F
			Squares		
app_id	5	5	35006.001	57.1463	<.0001*
version	2	2	347.478	1.4181	0.2433
rag	1	1	2215.082	18.0803	<.0001*
summarized	1	1	14991.378	122.3649	<.0001*

Effect Details**app_id****Least Squares Means Table**

Level	Least		0	40	80	Mean
	Sq Mean	Std Error				
WordPress	19.4123	1.550	●			16.508
eWeLink	16.9362	1.596	●			14.544
Open Energy Monitor	13.8856	1.044	●			14.560
JetRacer	28.2892	1.178		●		30.362
BookInfo	30.5751	1.636		●		31.319
Stack4Things	39.2499	1.356		●		38.657

version**Least Squares Means Table**

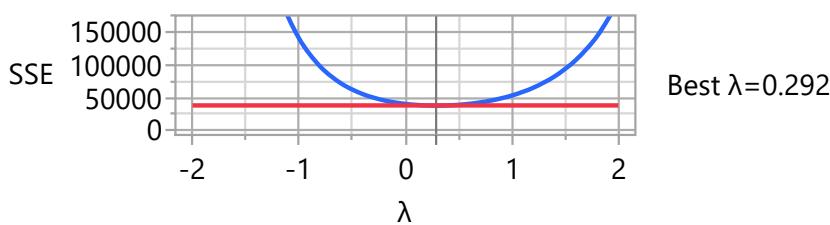
Level	Least		0	40	80	Mean
	Sq Mean	Std Error				
v3	24.8671	0.805	●			24.616
v2	25.8957	1.023	●			23.849
v1	23.4114	1.115	●			21.699

rag**Least Squares Means Table**

Level	Least		0	40	80	Mean
	Sq Mean	Std Error				
1	27.3910	0.9937	●			28.438
0	22.0584	0.7268	●			20.639

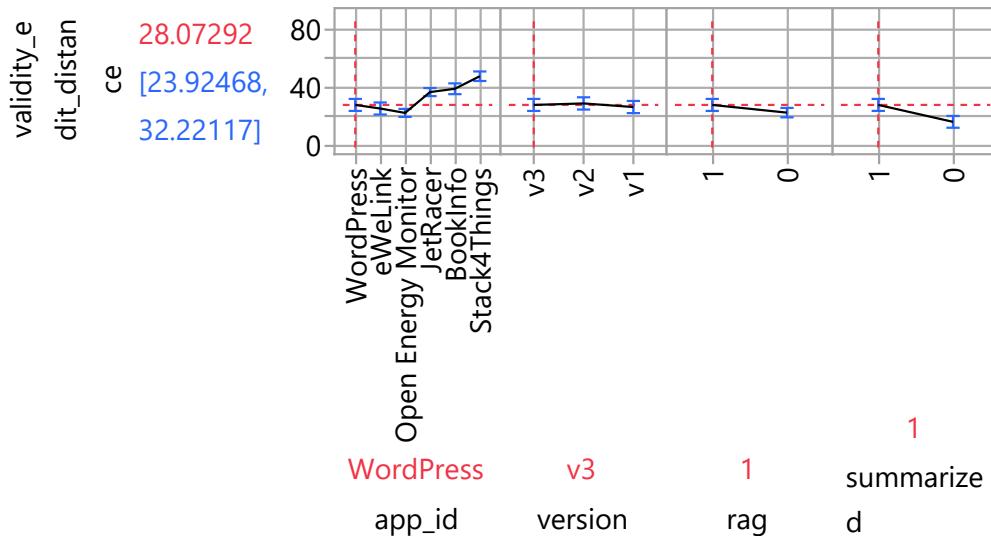
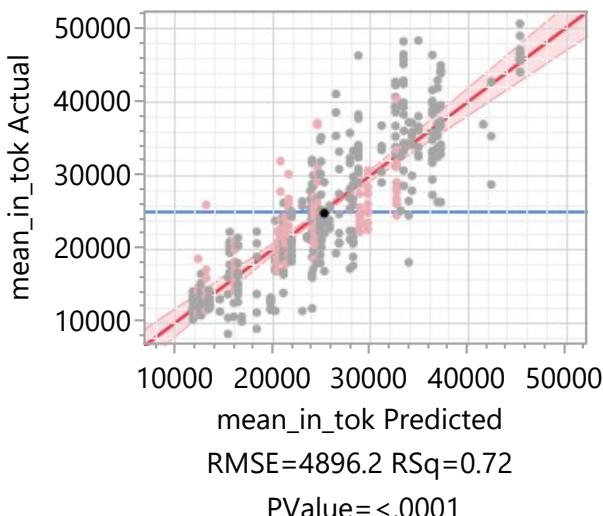
Fit Group**Response validity_edit_distance****Effect Details****summarized****Least Squares Means Table**

Level	Least		Mean
	Sq Mean	Std Error	
1	30.5767	0.7881	29.144
0	18.8727	0.8172	17.603

Box-Cox TransformationsBest $\lambda=0.292$ **Scaled Estimates**

Nominal factors expanded to all levels

Term	Scaled Estimate	Std Error	t Ratio	Prob> t
Intercept	24.724706	0.603844	40.95	<.0001*
app_id[WordPress]	-5.312456	1.361095	-3.90	0.0001*
app_id[eWeLink]	-7.788478	1.389494	-5.61	<.0001*
app_id[Open Energy Monitor]	-10.83912	1.030812	-10.52	<.0001*
app_id[JetRacer]	3.5644581	1.159165	3.08	0.0022*
app_id[BookInfo]	5.8504374	1.436421	4.07	<.0001*
app_id[Stack4Things]	14.52516	1.2272	11.84	<.0001*
version[v3]	0.1423587	0.708476	0.20	0.8408
version[v2]	1.1709756	0.79477	1.47	0.1414
version[v1]	-1.313334	0.842347	-1.56	0.1197
rag[1]	2.6663121	0.627059	4.25	<.0001*
rag[0]	-2.666312	0.627059	-4.25	<.0001*
summarized[1]	5.8520024	0.529025	11.06	<.0001*
summarized[0]	-5.852002	0.529025	-11.06	<.0001*

Fit Group**Response validity_edit_distance****Prediction Profiler****Response mean_in_tok****Actual by Predicted Plot**

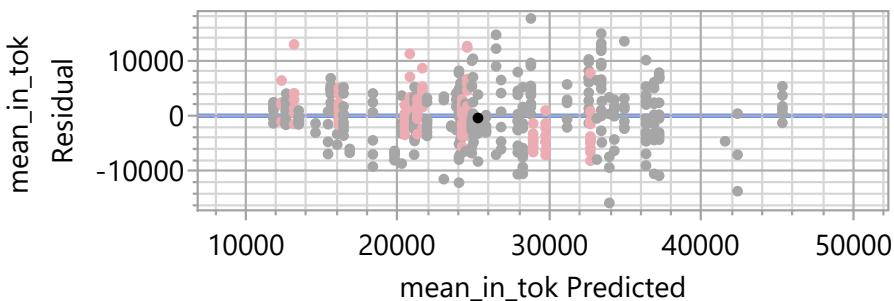
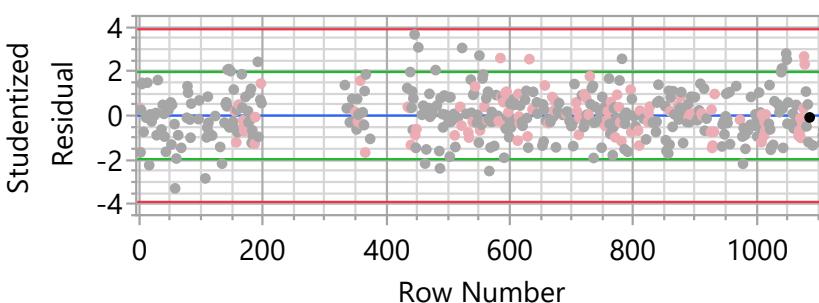
Fit Group**Response mean_in_tok****Effect Summary**

Source	Logworth	PValue
summarized	53.968	0.00000
app_id	53.309	0.00000
rag	38.934	0.00000
version	10.588	0.00000

Lack Of Fit

Source	DF	Sum of Squares		F Ratio
		Mean Square	Prob > F	
Lack Of Fit	48	3733574138	77782795	4.4964
Pure Error	387	6694717691	17299012	<.0001*
Total Error	435	1.0428e+10		

Max RSq
0.8228

Residual by Predicted Plot**Studentized Residuals**

Externally studentized residuals with 95% simultaneous limits

(Bonferroni) in red, individual limits in green.

Parameter Estimates

Term	Estimate	Std Error	t Ratio	Prob> t
Intercept	25226.281	267.1125	94.44	<.0001*
app_id[WordPress]	-3587.991	602.0855	-5.96	<.0001*
app_id[eWeLink]	-2742.387	614.6478	-4.46	<.0001*
app_id[Open Energy Monitor]	-3049.535	455.9836	-6.69	<.0001*
app_id[JetRacer]	611.32339	512.761	1.19	0.2338

Fit Group**Response mean_in_tok****Parameter Estimates**

Term	Estimate	Std Error	t Ratio	Prob> t
app_id[BookInfo]	-815.4357	635.4062	-1.28	0.2001
version[v3]	2239.653	313.3969	7.15	<.0001*
version[v2]	-709.4575	351.5694	-2.02	0.0442*
rag[1]	4055.4003	277.3819	14.62	<.0001*
summarized[1]	4220.2644	234.0161	18.03	<.0001*

Effect Tests

Source	Nparm	DF	Sum of	F Ratio	Prob > F
			Squares		
app_id	5	5	8473141708	70.6888	<.0001*
version	2	2	1236973785	25.7992	<.0001*
rag	1	1	5124308453	213.7526	<.0001*
summarized	1	1	7796719273	325.2280	<.0001*

Effect Details**app_id****Least Squares Means Table**

Level	Least Sq Mean	Std Error	10000	40000	Mean
WordPress	21638.3	685.6	•		17536
eWeLink	22483.9	706.2	•		18848
Open Energy Monitor	22176.7	461.9	•		23296
JetRacer	25837.6	521.2	•		28519
BookInfo	24410.8	723.8	•		25345
Stack4Things	34810.3	600.0		•	34886

version**Least Squares Means Table**

Level	Least Sq Mean	Std Error	10000	40000	Mean
v3	27465.9	355.9	•		27270
v2	24516.8	452.4	•		23215
v1	23696.1	493.3	•		22766

rag**Least Squares Means Table**

Level	Least Sq Mean	Std Error	10000	40000	Mean
1	29281.7	439.6	•		30783
0	21170.9	321.5	•		21348

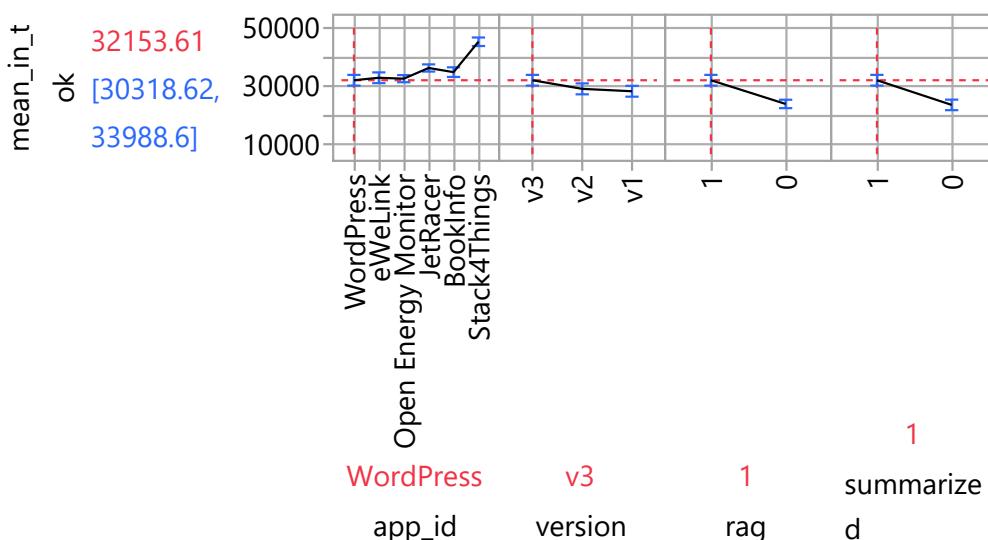
Fit Group**Response mean_in_tok****Effect Details****summarized****Least Squares Means Table**

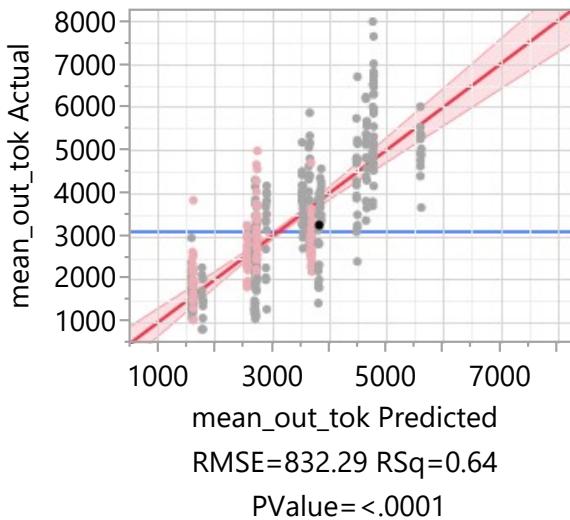
Level	Least			10000	40000	Mean
	Sq Mean	Std Error				
1	29446.5	348.6			●	28889
0	21006.0	361.5			●	20778

Scaled Estimates

Nominal factors expanded to all levels

Term	Scaled Estimate	Std Error	t Ratio	Prob> t
Intercept	25226.281	267.1125	94.44	<.0001*
app_id[WordPress]	-3587.991	602.0855	-5.96	<.0001*
app_id[eWeLink]	-2742.387	614.6478	-4.46	<.0001*
app_id[Open Energy Monitor]	-3049.535	455.9836	-6.69	<.0001*
app_id[JetRacer]	611.32339	512.761	1.19	0.2338
app_id[BookInfo]	-815.4357	635.4062	-1.28	0.2001
app_id[Stack4Things]	9584.0261	542.8562	17.65	<.0001*
version[v3]	2239.653	313.3969	7.15	<.0001*
version[v2]	-709.4575	351.5694	-2.02	0.0442*
version[v1]	-1530.195	372.6154	-4.11	<.0001*
rag[1]	4055.4003	277.3819	14.62	<.0001*
rag[0]	-4055.4	277.3819	-14.62	<.0001*
summarized[1]	4220.2644	234.0161	18.03	<.0001*
summarized[0]	-4220.264	234.0161	-18.03	<.0001*

Prediction Profiler

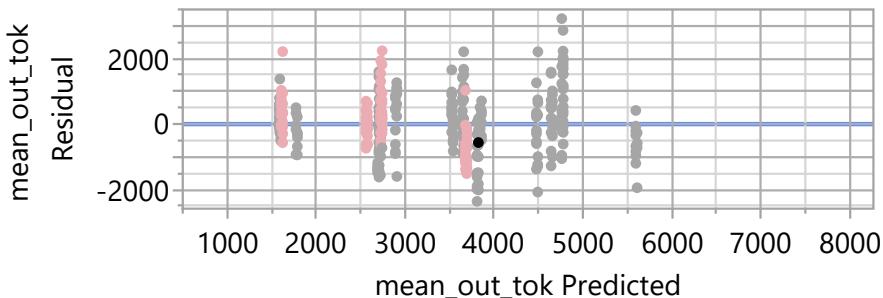
Fit Group**Response mean_out_tok****Actual by Predicted Plot****Effect Summary**

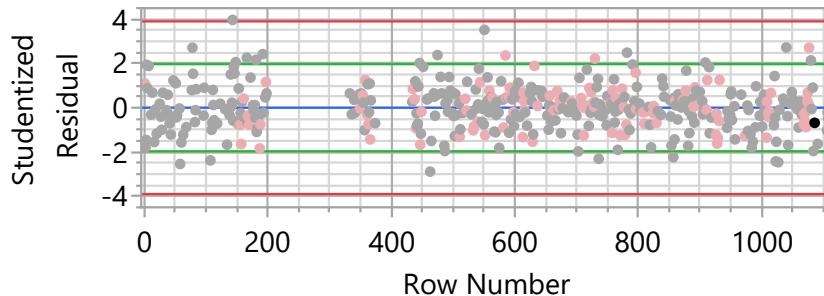
Source	Logworth	PValue
app_id	49.620	0.00000
summarized	36.497	0.00000
rag	20.963	0.00000
version	0.008	0.98115

Lack Of Fit

Source	DF	Sum of		
		Squares	Mean Square	F Ratio
Lack Of Fit	48	135812797	2829433	6.6158
Pure Error	387	165511546	427678	Prob > F
Total Error	435	301324343		<.0001*

Max RSq
0.8017

Residual by Predicted Plot

Fit Group**Response mean_out_tok****Studentized Residuals**

Externally studentized residuals with 95% simultaneous limits

(Bonferroni) in red, individual limits in green.

Parameter Estimates

Term	Estimate	Std Error	t Ratio	Prob> t
Intercept	3175.5648	45.40511	69.94	<.0001*
app_id[WordPress]	-541.4702	102.3455	-5.29	<.0001*
app_id[eWeLink]	-538.3589	104.4809	-5.15	<.0001*
app_id[Open Energy Monitor]	-521.1723	77.51036	-6.72	<.0001*
app_id[JetRacer]	562.22566	87.16165	6.45	<.0001*
app_id[BookInfo]	-356.2392	108.0095	-3.30	0.0011*
version[v3]	-10.39258	53.27277	-0.20	0.8454
version[v2]	4.2952152	59.76151	0.07	0.9427
rag[1]	476.24849	47.15075	10.10	<.0001*
summarized[1]	558.76109	39.77921	14.05	<.0001*

Effect Tests

Source	Nparm	DF	Sum of	F Ratio	Prob > F
			Squares		
app_id	5	5	223728908	64.5962	<.0001*
version	2	2	26364	0.0190	0.9812
rag	1	1	70669990	102.0211	<.0001*
summarized	1	1	136673678	197.3058	<.0001*

Effect Details**app_id****Least Squares Means Table**

Level	Least		1000	4000	7000	Mean
	Sq Mean	Std Error				
WordPress	2634.09	116.5	●			2129.7
eWeLink	2637.21	120.0	●			2169.3
Open Energy Monitor	2654.39	78.5	●			2723.3
JetRacer	3737.79	88.6	●			4004.6
BookInfo	2819.33	123.0	●			2852.0
Stack4Things	4570.58	102.0		●		4464.2

Fit Group**Response mean_out_tok****Effect Details****version****Least Squares Means Table**

Level	Least			1000	4000	7000	Mean
	Sq Mean	Std Error					
v3	3165.17	60.50			•		3188.4
v2	3179.86	76.90			•		3051.4
v1	3181.66	83.86			•		3099.6

rag**Least Squares Means Table**

Level	Least			1000	4000	7000	Mean
	Sq Mean	Std Error					
1	3651.81	74.72			•		3904.0
0	2699.32	54.65			•		2622.0

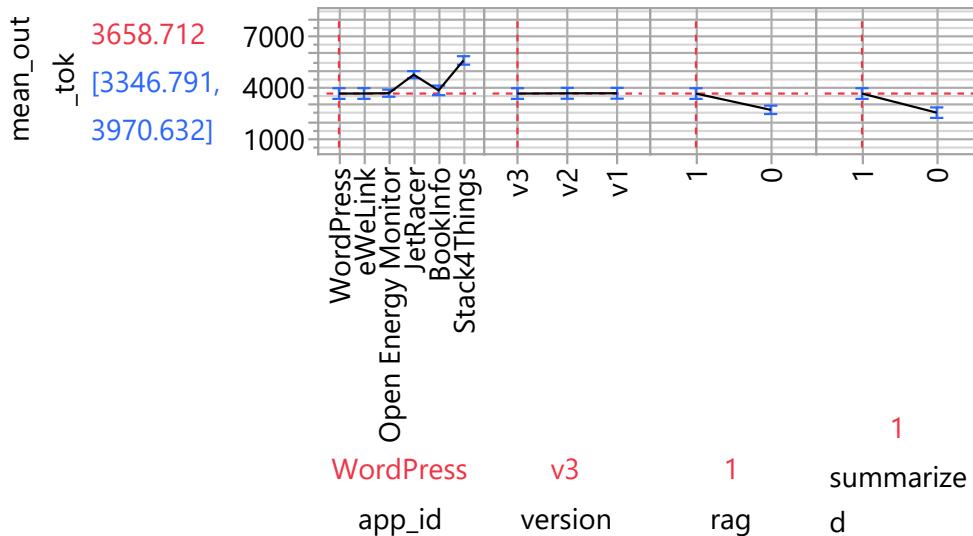
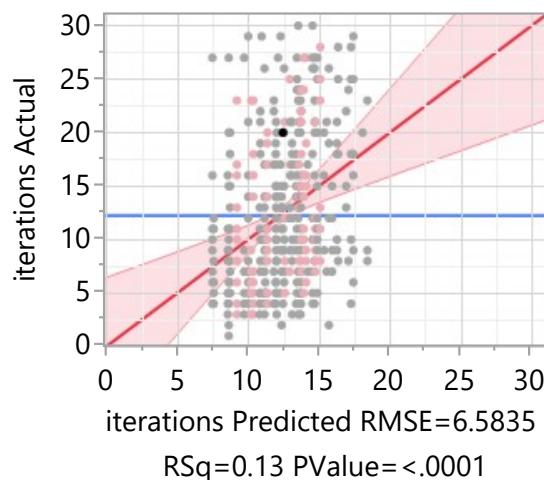
summarized**Least Squares Means Table**

Level	Least			1000	4000	7000	Mean
	Sq Mean	Std Error					
1	3734.33	59.26			•		3641.7
0	2616.80	61.45			•		2550.2

Scaled Estimates

Nominal factors expanded to all levels

Term	Scaled			Std Error	t Ratio	Prob> t
	Estimate					
Intercept	3175.5648			45.40511	69.94	<.0001*
app_id[WordPress]	-541.4702			102.3455	-5.29	<.0001*
app_id[eWeLink]	-538.3589			104.4809	-5.15	<.0001*
app_id[Open Energy Monitor]	-521.1723			77.51036	-6.72	<.0001*
app_id[JetRacer]	562.22566			87.16165	6.45	<.0001*
app_id[BookInfo]	-356.2392			108.0095	-3.30	0.0011*
app_id[Stack4Things]	1395.015			92.27739	15.12	<.0001*
version[v3]	-10.39258			53.27277	-0.20	0.8454
version[v2]	4.2952152			59.76151	0.07	0.9427
version[v1]	6.0973688			63.33901	0.10	0.9234
rag[1]	476.24849			47.15075	10.10	<.0001*
rag[0]	-476.2485			47.15075	-10.10	<.0001*
summarized[1]	558.76109			39.77921	14.05	<.0001*
summarized[0]	-558.7611			39.77921	-14.05	<.0001*

Fit Group**Response mean_out_tok****Prediction Profiler****Response iterations****Actual by Predicted Plot**

Fit Group**Response iterations****Effect Summary**

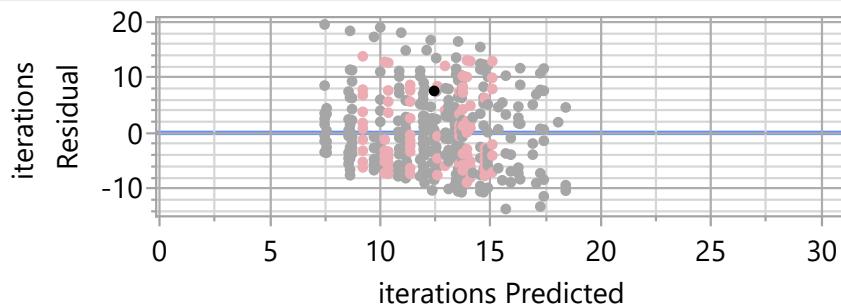
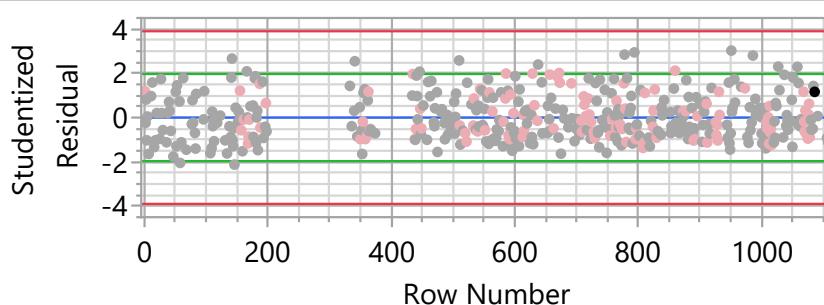
Source	Logworth	PValue
version	6.759	0.00000
app_id	4.781	0.00002
summarized	1.170	0.06761
rag	0.738	0.18287

Lack Of Fit

Source	DF	Sum of Squares		
		Mean Square	F Ratio	Prob > F
Lack Of Fit	48	1851.225	38.5672	0.8778
Pure Error	387	17002.924	43.9352	
Total Error	435	18854.148		0.7035

Max RSq

0.2112

Residual by Predicted Plot**Studentized Residuals**

Externally studentized residuals with 95% simultaneous limits

(Bonferroni) in red, individual limits in green.

Parameter Estimates

Term	Estimate	Std Error	t Ratio	Prob> t
Intercept	13.045179	0.359163	36.32	<.0001*
app_id[WordPress]	-2.123618	0.809571	-2.62	0.0090*
app_id[eWeLink]	0.3996161	0.826463	0.48	0.6290
app_id[Open Energy Monitor]	-0.392577	0.613121	-0.64	0.5223
app_id[JetRacer]	-2.033511	0.689464	-2.95	0.0034*

Fit Group**Response iterations****Parameter Estimates**

Term	Estimate	Std Error	t Ratio	Prob> t
app_id[BookInfo]	1.2141405	0.854375	1.42	0.1560
version[v3]	-2.369171	0.421397	-5.62	<.0001*
version[v2]	1.3561101	0.472724	2.87	0.0043*
rag[1]	0.4975741	0.372971	1.33	0.1829
summarized[1]	0.57652	0.314661	1.83	0.0676

Effect Tests

Source	Nparm	DF	Sum of	F Ratio	Prob > F
			Squares		
app_id	5	5	1329.4935	6.1348	<.0001*
version	2	2	1398.5583	16.1337	<.0001*
rag	1	1	77.1407	1.7798	0.1829
summarized	1	1	145.4994	3.3569	0.0676

Effect Details**app_id****Least Squares Means Table**

Level	Least Sq Mean	Std Error	0	10	20	30	Mean
WordPress	10.9216	0.9219	●				10.246
eWeLink	13.4448	0.9496	●				12.667
Open Energy Monitor	12.6526	0.6211	●				12.172
JetRacer	11.0117	0.7008	●				10.777
BookInfo	14.2593	0.9732	●				13.511
Stack4Things	15.9811	0.8068	●				15.000

version**Least Squares Means Table**

Level	Least Sq Mean	Std Error	0	10	20	30	Mean
v3	10.6760	0.4785		●			10.606
v2	14.4013	0.6083		●			14.040
v1	14.0582	0.6634		●			13.563

rag**Least Squares Means Table**

Level	Least Sq Mean	Std Error	0	10	20	30	Mean
1	13.5428	0.5910		●			12.813
0	12.5476	0.4323		●			11.903

Fit Group**Response iterations****Effect Details****summarized****Least Squares Means Table**

Level	Least			0	10	20	30	Mean
	Sq Mean	Std Error						
1	13.6217	0.4688			●			12.720
0	12.4687	0.4861			●			11.746

Scaled Estimates

Nominal factors expanded to all levels

Term	Scaled Estimate	Std Error	t Ratio	Prob> t
Intercept	13.045179	0.359163	36.32	<.0001*
app_id[WordPress]	-2.123618	0.809571	-2.62	0.0090*
app_id[eWeLink]	0.3996161	0.826463	0.48	0.6290
app_id[Open Energy Monitor]	-0.392577	0.613121	-0.64	0.5223
app_id[JetRacer]	-2.033511	0.689464	-2.95	0.0034*
app_id[BookInfo]	1.2141405	0.854375	1.42	0.1560
app_id[Stack4Things]	2.9359499	0.729931	4.02	<.0001*
version[v3]	-2.369171	0.421397	-5.62	<.0001*
version[v2]	1.3561101	0.472724	2.87	0.0043*
version[v1]	1.0130609	0.501023	2.02	0.0438*
rag[1]	0.4975741	0.372971	1.33	0.1829
rag[0]	-0.497574	0.372971	-1.33	0.1829
summarized[1]	0.57652	0.314661	1.83	0.0676
summarized[0]	-0.57652	0.314661	-1.83	0.0676

Prediction Profiler