

## Univariate Analysis of Variance - VADER

### Between-Subjects Factors

		Value Label	N
Pre_Processed	0	False	3067099
	1	True	3067099
Spell_Checked	None		876314
	Symspell		876314
	Symspell_Compound		876314
	Symspell_Compound_Urban		876314
	Symspell_Urban		876314
	TextBlob		876314
	TextBlob_Urban		876314

### Descriptive Statistics

Dependent Variable: VADER\_Result

Pre_Processed	Spell_Checked	Mean	Std. Deviation	N
False	None	.589966	.2813448	438157
	Symspell	.586319	.2845094	438157
	Symspell_Compound	.593961	.2775128	438157
	Symspell_Compound_Urban	.595231	.2781151	438157
	Symspell_Urban	.587605	.2845571	438157
	TextBlob	.578778	.2904053	438157
	TextBlob_Urban	.581465	.2922602	438157
	Total	.587618	.2842047	3067099
True	None	.595171	.2796352	438157
	Symspell	.591084	.2829005	438157
	Symspell_Compound	.598651	.2757892	438157
	Symspell_Compound_Urban	.600028	.2762914	438157

## Descriptive Statistics

Dependent Variable: VADER\_Result

Pre_Processed	Spell_Checked	Mean	Std. Deviation	N
	Symspell_Urban	.592627	.2828048	438157
	TextBlob	.583412	.2890505	438157
	TextBlob_Urban	.586570	.2908883	438157
	Total	.592506	.2825876	3067099
Total	None	.592568	.2805032	876314
	Symspell	.588701	.2837159	876314
	Symspell_Compound	.596306	.2766622	876314
	Symspell_Compound_Urban	.597629	.2772150	876314
	Symspell_Urban	.590116	.2836932	876314
	TextBlob	.581095	.2897378	876314
	TextBlob_Urban	.584018	.2915861	876314
	Total	.590062	.2834078	6134198

## Tests of Between-Subjects Effects

Dependent Variable: VADER\_Result

Source	Type III Sum of Squares	df	Mean Square	F	Sig.
Corrected Model	230.664 <sup>a</sup>	13	17.743	221.012	.000
Intercept	2135762.817	1	2135762.817	26603073.28	.000
Pre_Processed	36.644	1	36.644	456.437	<.001
Spell_Checked	193.956	6	32.326	402.653	.000
Pre_Processed * Spell_Checked	.064	6	.011	.133	.992
Error	492467.993	6134184	.080		
Total	2628461.473	6134198			
Corrected Total	492698.657	6134197			

a. R Squared = .000 (Adjusted R Squared = .000)

## Estimated Marginal Means

## Pre\_Processed \* Spell\_Checked

Dependent Variable: VADER\_Result

Pre_Processed	Spell_Checked	Mean	Std. Error	95% Confidence Interval	
				Lower Bound	Upper Bound
False	None	.590	.000	.589	.591
	Symspell	.586	.000	.585	.587
	Symspell_Compound	.594	.000	.593	.595
	Symspell_Compound_Urban	.595	.000	.594	.596
	Symspell_Urban	.588	.000	.587	.588
	TextBlob	.579	.000	.578	.580
	TextBlob_Urban	.581	.000	.581	.582
True	None	.595	.000	.594	.596
	Symspell	.591	.000	.590	.592
	Symspell_Compound	.599	.000	.598	.599
	Symspell_Compound_Urban	.600	.000	.599	.601
	Symspell_Urban	.593	.000	.592	.593
	TextBlob	.583	.000	.583	.584
	TextBlob_Urban	.587	.000	.586	.587

## Post Hoc Tests

## Spell\_Checked

## Multiple Comparisons

Dependent Variable: VADER\_Result

Tukey HSD

(I) Spell_Checked	(J) Spell_Checked	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval	
					Lower Bound	Upper Bound
None	Symspell	.003867 <sup>*</sup>	.0004281	.000	.002605	.005129
	Symspell_Compound	-.003738 <sup>*</sup>	.0004281	.000	-.005000	-.002476
	Symspell_Compound_Urban	-.005061 <sup>*</sup>	.0004281	.000	-.006323	-.003799
	Symspell_Urban	.002452 <sup>*</sup>	.0004281	<.001	.001190	.003714
	TextBlob	.011473 <sup>*</sup>	.0004281	.000	.010211	.012736
	TextBlob_Urban	.008551 <sup>*</sup>	.0004281	.000	.007289	.009813
Symspell	None	-.003867 <sup>*</sup>	.0004281	.000	-.005129	-.002605
	Symspell_Compound	-.007605 <sup>*</sup>	.0004281	.000	-.008867	-.006343
	Symspell_Compound_Urban	-.008928 <sup>*</sup>	.0004281	.000	-.010190	-.007666
	Symspell_Urban	-.001415 <sup>*</sup>	.0004281	.017	-.002677	-.000153
	TextBlob	.007607 <sup>*</sup>	.0004281	.000	.006345	.008869
	TextBlob_Urban	.004684 <sup>*</sup>	.0004281	.000	.003422	.005946
Symspell_Compound	None	.003738 <sup>*</sup>	.0004281	.000	.002476	.005000
	Symspell	.007605 <sup>*</sup>	.0004281	.000	.006343	.008867
	Symspell_Compound_Urban	-.001323 <sup>*</sup>	.0004281	.033	-.002585	-.000061
	Symspell_Urban	.006190 <sup>*</sup>	.0004281	.000	.004928	.007452
	TextBlob	.015211 <sup>*</sup>	.0004281	.000	.013949	.016473
	TextBlob_Urban	.012288 <sup>*</sup>	.0004281	.000	.011026	.013550
Symspell_Compound_Urban	None	.005061 <sup>*</sup>	.0004281	.000	.003799	.006323
	Symspell	.008928 <sup>*</sup>	.0004281	.000	.007666	.010190

## Multiple Comparisons

Dependent Variable: VADER\_Result

Tukey HSD

(I) Spell_Checked	(J) Spell_Checked	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval	
					Lower Bound	Upper Bound
	Symspell_Compound	.001323 <sup>*</sup>	.0004281	.033	.000061	.002585
	Symspell_Urban	.007513 <sup>*</sup>	.0004281	.000	.006251	.008775
	TextBlob	.016535 <sup>*</sup>	.0004281	.000	.015272	.017797
	TextBlob_Urban	.013612 <sup>*</sup>	.0004281	.000	.012350	.014874
Symspell_Urban	None	-.002452 <sup>*</sup>	.0004281	<.001	-.003714	-.001190
	Symspell	.001415 <sup>*</sup>	.0004281	.017	.000153	.002677
	Symspell_Compound	-.006190 <sup>*</sup>	.0004281	.000	-.007452	-.004928
	Symspell_Compound_Urban	-.007513 <sup>*</sup>	.0004281	.000	-.008775	-.006251
	TextBlob	.009021 <sup>*</sup>	.0004281	.000	.007759	.010283
	TextBlob_Urban	.006098 <sup>*</sup>	.0004281	.000	.004836	.007360
TextBlob	None	-.011473 <sup>*</sup>	.0004281	.000	-.012736	-.010211
	Symspell	-.007607 <sup>*</sup>	.0004281	.000	-.008869	-.006345
	Symspell_Compound	-.015211 <sup>*</sup>	.0004281	.000	-.016473	-.013949
	Symspell_Compound_Urban	-.016535 <sup>*</sup>	.0004281	.000	-.017797	-.015272
	Symspell_Urban	-.009021 <sup>*</sup>	.0004281	.000	-.010283	-.007759
	TextBlob_Urban	-.002923 <sup>*</sup>	.0004281	.000	-.004185	-.001661
TextBlob_Urban	None	-.008551 <sup>*</sup>	.0004281	.000	-.009813	-.007289
	Symspell	-.004684 <sup>*</sup>	.0004281	.000	-.005946	-.003422
	Symspell_Compound	-.012288 <sup>*</sup>	.0004281	.000	-.013550	-.011026
	Symspell_Compound_Urban	-.013612 <sup>*</sup>	.0004281	.000	-.014874	-.012350
	Symspell_Urban	-.006098 <sup>*</sup>	.0004281	.000	-.007360	-.004836
	TextBlob	.002923 <sup>*</sup>	.0004281	.000	.001661	.004185

Based on observed means.  
 The error term is Mean Square(Error) = .080.  
 \*. The mean difference is significant at the .05 level.

Homogeneous Subsets

VADER\_Result

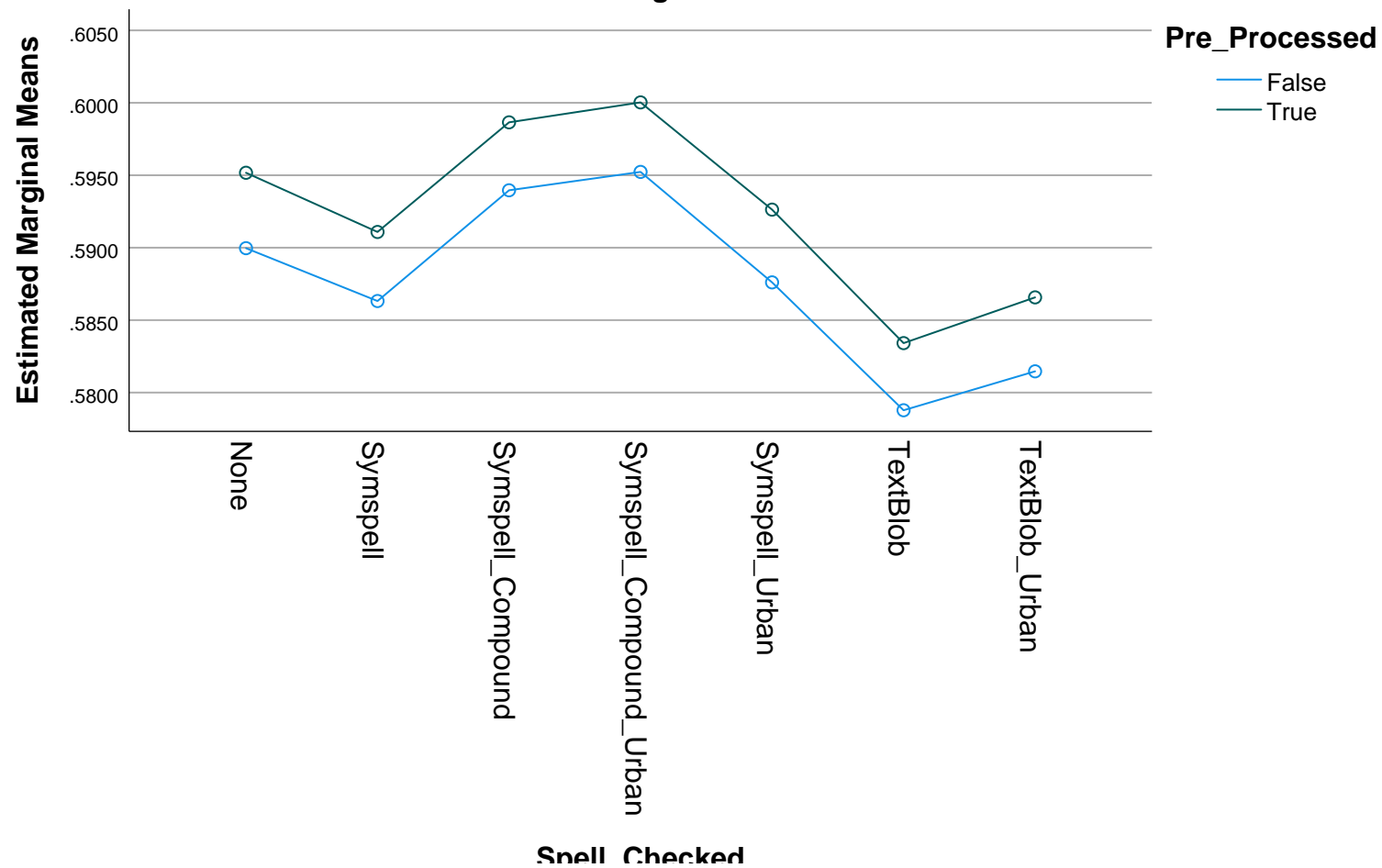
Tukey HSD<sup>a,b</sup>

Spell_Checked	N	Subset						
		1	2	3	4	5	6	7
TextBlob	876314	.581095						
TextBlob_Urban	876314		.584018					
Symspell	876314			.588701				
Symspell_Urban	876314				.590116			
None	876314					.592568		
Symspell_Compound	876314						.596306	
Symspell_Compound_Urban	876314							.597629
Sig.		1.000	1.000	1.000	1.000	1.000	1.000	1.000

Means for groups in homogeneous subsets are displayed.  
 Based on observed means.  
 The error term is Mean Square(Error) = .080.  
 a. Uses Harmonic Mean Sample Size = 876314.000.  
 b. Alpha = .05.

Profile Plots

Estimated Marginal Means of VADER\_Result



Estimated Marginal Means of VADER\_Result

