```
 GET
   FILE='/Users/Erin/Dropbox/E_K projects/D QWERTY/revised_paper/stimuli/overlapwords.sav'.
DATASET NAME DataSet2 WINDOW=FRONT.
DATASET ACTIVATE DataSet2.
SAVE OUTFILE='/Users/Erin/Dropbox/E_K projects/D QWERTY/revised_paper/stimuli/overlapwords.sav
  /COMPRESSED.
MIXED scaled_valence WITH RHA switch word_length letter_freq
   /CRITERIA=CIN(95) MXITER(100) MXSTEP(10) SCORING(1) SINGULAR(0.000000000001) HCONVERGE(0, AB
   /FIXED=RHA switch RHA*switch word_length letter_freq | SSTYPE(3)
   /METHOD=ML
   /PRINT=SOLUTION
   /RANDOM=INTERCEPT | SUBJECT(database) COVTYPE(VC)
   /REPEATED=word | SUBJECT(database) COVTYPE(ID).
```

Mixed Model Analysis

[DataSet2] /Users/Erin/Dropbox/E_K projects/D QWERTY/revised_paper/stimuli/overlapwords.sav

Model Dimension[a]

		Number of Levels	Covariance Structure	Number of Parameters	Subject Variables	Number of Subjects
Fixed Effects	**Intercept**	1		1		
	RHA	1		1		
	switch	1		1		
	RHA * switch	1		1		
	word_length	1		1		
	letter_freq	1		1		
Random Effects	**Intercept[b]**	1	Variance Components	1	**database**	
Repeated Effects	**word**	5758	**Identity**	1	**database**	**5**
Total		5765		8		

a. Dependent Variable: scaled_valence.

b. As of version 11.5, the syntax rules for the RANDOM subcommand have changed. Your command syntax may yield results that differ from those produced by prior versions. If you are using version 11 syntax, please consult the current syntax reference guide for more information.

Information Criteria[a]

-2 Log Likelihood	**47321.902**
Akaike's Information Criterion (AIC)	**47337.902**
Hurvich and Tsai's Criterion (AICC)	**47337.913**
Bozdogan's Criterion (CAIC)	**47405.689**
Schwarz's Bayesian Criterion (BIC)	**47397.689**

The information criteria are displayed in smaller-is-better forms.

a. Dependent Variable: scaled_valence.

Fixed Effects

Type III Tests of Fixed Effects[a]

Source	Numerator df	Denominator df	F	Sig.
Intercept	1	5.603	163.345	.000
RHA	1	13005.600	28.231	.000
switch	1	13005.777	1.251	.263
RHA * switch	1	13005.015	4.532	.033
word_length	1	13007.112	3.023	.082
letter_freq	1	13005.118	25.779	.000

a. Dependent Variable: scaled_valence.

Estimates of Fixed Effects[a]

Parameter	Estimate	Std. Error	df	t	Sig.	95% Confidence Interval	
						Lower Bound	Upper Bound
Intercept	4.264063	.333635	5.603	12.781	.000	3.433478	5.094649
RHA	.050812	.009563	13005.600	5.313	.000	.032067	.069558
switch	-.013638	.012195	13005.777	-1.118	.263	-.037543	.010266
RHA * switch	-.006669	.003133	13005.015	-2.129	.033	-.012809	-.000528
word_length	.014361	.008260	13007.112	1.739	.082	-.001830	.030552
letter_freq	.064807	.012764	13005.118	5.077	.000	.039788	.089827

a. Dependent Variable: scaled_valence.

Covariance Parameters

Estimates of Covariance Parameters[a]

Parameter		Estimate	Std. Error
Repeated Measures	Variance	2.219367	.027523
Intercept [subject = database]	Variance	.521160	.332469

a. Dependent Variable: scaled_valence.

```
DESCRIPTIVES VARIABLES=RHA
 /STATISTICS=MEAN STDDEV MIN MAX.
```

Descriptives

[DataSet2] /Users/Erin/Dropbox/E_K projects/D QWERTY/revised_paper/stimuli/overlapwords.sav

Descriptive Statistics

	N	Minimum	Maximum	Mean	Std. Deviation
RHA	13010	-10.00	8.00	-1.1959	2.53959
Valid N (listwise)	13010				

Mixed Model Analysis

[DataSet2] /Users/Erin/Dropbox/E_K projects/D QWERTY/revised_paper/stimuli/overlapwords.sav

Model Dimension[a]

		Number of Levels	Covariance Structure	Number of Parameters	Subject Variables	Number of Subjects
Fixed Effects	**Intercept**	1		1		
	switch	1		1		
	word_length	1		1		
	letter_freq	1		1		
	more_leftX2	1		1		
	switch * more_leftX2	1		1		
Random Effects	**Intercept[b]**	1	Variance Components	1	**database**	
Repeated Effects	**word**	**5758**	**Identity**	1	**database**	**5**
Total		**5765**		**8**		

a. Dependent Variable: scaled_valence.

b. As of version 11.5, the syntax rules for the RANDOM subcommand have changed. Your command syntax may yield results that differ from those produced by prior versions. If you are using version 11 syntax, please consult the current syntax reference guide for more information.

Information Criteria[a]

-2 Log Likelihood	**47321.902**
Akaike's Information Criterion (AIC)	**47337.902**
Hurvich and Tsai's Criterion (AICC)	**47337.913**
Bozdogan's Criterion (CAIC)	**47405.689**
Schwarz's Bayesian Criterion (BIC)	**47397.689**

The information criteria are displayed in smaller-is-better forms.

a. Dependent Variable: scaled_valence.

Fixed Effects

Type III Tests of Fixed Effects[a]

Source	Numerator df	Denominator df	F	Sig.
Intercept	1	6.019	139.107	.000
switch	1	13005.259	1.530	.216
word_length	1	13007.112	3.023	.082
letter_freq	1	13005.118	25.779	.000
more_leftX2	1	13005.600	28.231	.000
switch * more_leftX2	1	13005.015	4.532	.033

a. Dependent Variable: scaled_valence.

Estimates of Fixed Effects[a]

Parameter	Estimate	Std. Error	df	t	Sig.	95% Confidence Interval	
						Lower Bound	Upper Bound
Intercept	4.005937	.339649	6.019	11.794	.000	3.175472	4.836402
switch	.020239	.016360	13005.259	1.237	.216	-.011830	.052307
word_length	.014361	.008260	13007.112	1.739	.082	-.001830	.030552
letter_freq	.064807	.012764	13005.118	5.077	.000	.039788	.089827
more_leftX2	.050812	.009563	13005.600	5.313	.000	.032067	.069558
switch * more_leftX2	-.006669	.003133	13005.015	-2.129	.033	-.012809	-.000528

a. Dependent Variable: scaled_valence.

Covariance Parameters

Estimates of Covariance Parameters[a]

Parameter		Estimate	Std. Error
Repeated Measures	Variance	2.219367	.027523
Intercept [subject = database]	Variance	.521160	.332469

a. Dependent Variable: scaled_valence.

```
 COMPUTE more_rightX2=RHA-(2.54*2).
EXECUTE.
MIXED scaled_valence WITH switch word_length letter_freq more_rightX2
  /CRITERIA=CIN(95) MXITER(100) MXSTEP(10) SCORING(1) SINGULAR(0.000000000001) HCONVERGE(0, ABS
  /FIXED=switch word_length letter_freq more_rightX2 switch*more_rightX2 | SSTYPE(3)
  /METHOD=ML
  /PRINT=SOLUTION
  /RANDOM=INTERCEPT | SUBJECT(database) COVTYPE(VC)
  /REPEATED=word | SUBJECT(database) COVTYPE(ID).
```

Mixed Model Analysis

[DataSet2] /Users/Erin/Dropbox/E_K projects/D QWERTY/revised_paper/stimuli/overlapwords.sav

Model Dimension[a]

		Number of Levels	Covariance Structure	Number of Parameters	Subject Variables	Number of Subjects
Fixed Effects	Intercept	1		1		
	switch	1		1		
	word_length	1		1		
	letter_freq	1		1		
	more_rightX2	1		1		
	switch * more_rightX2	1		1		
Random Effects	Intercept[b]	1	Variance Components	1	database	
Repeated Effects	word	5758	Identity	1	database	5
Total		5765		8		

a. Dependent Variable: scaled_valence.

b. As of version 11.5, the syntax rules for the RANDOM subcommand have changed. Your command syntax may yield results that differ from those produced by prior versions. If you are using version 11 syntax, please consult the current syntax reference guide for more information.

Information Criteria[a]

-2 Log Likelihood	47321.902
Akaike's Information Criterion (AIC)	47337.902
Hurvich and Tsai's Criterion (AICC)	47337.913
Bozdogan's Criterion (CAIC)	47405.689
Schwarz's Bayesian Criterion (BIC)	47397.689

The information criteria are displayed in smaller-is-better forms.

a. Dependent Variable: scaled_valence.

Fixed Effects

Type III Tests of Fixed Effects[a]

Source	Numerator df	Denominator df	F	Sig.
Intercept	1	5.671	182.618	.000
switch	1	13005.327	4.210	.040
word_length	1	13007.112	3.023	.082
letter_freq	1	13005.118	25.779	.000
more_rightX2	1	13005.600	28.231	.000
switch * more_rightX2	1	13005.015	4.532	.033

a. Dependent Variable: scaled_valence.

Estimates of Fixed Effects[a]

Parameter	Estimate	Std. Error	df	t	Sig.	95% Confidence Interval	
						Lower Bound	Upper Bound
Intercept	4.522190	.334639	5.671	13.514	.000	3.691706	5.352674
switch	-.047515	.023158	13005.327	-2.052	.040	-.092908	-.002123
word_length	.014361	.008260	13007.112	1.739	.082	-.001830	.030552
letter_freq	.064807	.012764	13005.118	5.077	.000	.039788	.089827
more_rightX2	.050812	.009563	13005.600	5.313	.000	.032067	.069558
switch * more_rightX2	-.006669	.003133	13005.015	-2.129	.033	-.012809	-.000528

a. Dependent Variable: scaled_valence.

Covariance Parameters

Estimates of Covariance Parameters[a]

Parameter		Estimate	Std. Error
Repeated Measures	Variance	2.219367	.027523
Intercept [subject = database]	Variance	.521160	.332469

a. Dependent Variable: scaled_valence.