Mixed Linear Model Regression Results

Model: MixedLM No. Observations: 226 No. Groups: 3 Min. group size: 8 Max. group size: 130 Mean group size: 75.3	Dependent Variable: euc Method: REML Scale: 37715.1840 Log-Likelihood: -1504.6715 Converged: Yes					
Coef. St	d.Err. z P> z [0.025 0.975]					
position[T.off] 76.414	51.900 10.002 0.000 417.385 620.828 26.376 2.897 0.004 24.719 128.109 40.155					
Mixed Linear	Model Regression Results					
Model: MixedLI No. Observations: 226 No. Groups: 3 Min. group size: 8 Max. group size: 130 Mean group size: 75.3						
Coef. St	d.Err. z P> z [0.025 0.975]					
position[T.off] -33.269 performer Var 9508.983	58.614 15.706 0.000 805.691 1035.455 15.409 -2.159 0.031 -63.469 -3.069 88.260					
Mixed Linear I	======================================					
Model: Mixed No. Observations: 226 No. Groups: 3 Min. group size: 8 Max. group size: 130 Mean group size: 75.3	LM Dependent Variable: F2 Method: REML Scale: 24349.8031 Log-Likelihood: -1455.2044 Converged: Yes					
Coef. St	d.Err. z P> z [0.025 0.975]					
position[T.off] 42.465	31.204 46.400 0.000 1386.704 1509.021 21.115 2.011 0.044 1.080 83.851 14.954					
Mixed Linear	Model Regression Results					
Model: MixedLI	M Dependent Variable: F3					

Intercept 24	 167 . 357		9 - Y [0.025 	2798 . 681		
position[T.off] -1 performer Var 798	101.043 318.608		-2.305 		-184.781 	-17 . 305
a,syllable	inear Mo	del Regr	ession R	 !esulta		
=======================================		======	======	=====		====
Model: No. Observations: No. Groups: Min. group size: Max. group size: Mean group size:	MixedL 226 3 8 130 75.3	Metho Scale	: ikelihoo		euc REML 38900. -1508. Yes	
Coe	 f. Std	.Err.	z P>	z [0	0.025 0.	 975]
Intercept 572 syllable[T.2] -25 performer Var 7316	083 2				9.045 686 6.824 26	.444 .658
========== Mixed	Linear	Model Re	====== gression	Resul	====== Lts	====
Model: No. Observations: No. Groups: Min. group size: Max. group size: Mean group size:	Mixed 226 3 8 130 75.3	Methor Scale			======= E: F1 REML 13028 -1387 Yes	
Coe	f. Std	.Err.	z P>	z [0	0.025 0.	975]
Intercept 891 syllable[T.2] 22 performer Var 9997	451 1				3.795 100 7.490 5	9.133 2.392
Mixed Linear Model Regression Results						
Model: No. Observations: No. Groups:	MixedL 226 3	M Depe Meth Scal		ıriable	REML	2.3316

Min. group size: 8 Log-Likelihood: -1457.2145
Max. group size: 130 Converged: Yes
Mean group size: 75.3

Coef. Std.Err. z P>|z| [0.025 0.975] Intercept 1469.280 33.264 44.170 0.000 1404.083 1534.476 syllable[T.2] -2.116 21.062 -0.100 0.920 -43.397 39.166 performer Var 2112.912 16.948

Mixed Linear Model Regression Results

Model: MixedLM Dependent Variable: F3
No. Observations: 226 Method: REML
No. Groups: 3 Scale: 101070.4550
Min. group size: 8 Log-Likelihood: -1616.5836
Max. group size: 130 Converged: Yes
Mean group size: 75.3

Coef. Std.Err. z P>|z| [0.025 0.975]

_____ Intercept 2389.888 169.791 14.075 0.000 2057.103 2722.673 syllable[T.2] 48.360 42.548 1.137 0.256 -35.032 131.752 performer Var 80382.822 259.096

a, position + syllable

Mixed Linear Model Regression Results

Model: MixedLM Dependent Variable: euc
No. Observations: 226 Method: REML
No. Groups: 3 Scale: 37608.5752
Min. group size: 8 Log-Likelihood: -1499.6285
Max. group size: 130 Converged: Yes
Mean group size: 75.3

Coef. Std.Err. z P>|z| [0.025 0.975]

Intercept 534.925 52.226 10.242 0.000 432.564 637.286 position[T.off] 80.466 26.517 3.035 0.002 28.494 132.439 syllable[T.2] -34.311 26.137 -1.313 0.189 -85.538 16.916 performer Var 5135.298 38.382

Mixed Linear Model Regression Results

Model: MixedLM Dependent Variable: F1
No. Observations: 226 Method: REML
No. Groups: 3 Scale: 12774.8732
Min. group size: 8 Log-Likelihood: -1380.6884

Max. group size: 130 Converged: Yes Mean group size: 75.3 Coef. Std.Err. z P>|z| [0.025 0.975] Intercept 908.065 58.364 15.559 0.000 793.673 1022.457 position[T.off] -36.378 15.443 -2.356 0.018 -66.644 -6.111 syllable[T.2] 26.589 15.229 1.746 0.081 -3.259 56.437 performer Var 9276.156 86.500 _____ Mixed Linear Model Regression Results ______ Model: MixedLM Dependent Variable: F2
No. Observations: 226 Method: REML
No. Groups: 3 Scale: 24446.8925
Min. group size: 8 Log-Likelihood: -1451.1843
Max. group size: 130 Converged: Yes
Mean group size: 75.3 Coef. Std.Err. z P>|z| [0.025 0.975] _____ Intercept 1451.239 32.898 44.113 0.000 1386.759 1515.719 position[T.off] 43.267 21.294 2.032 0.042 1.531 85.002 syllable[T.2] -6.969 21.060 -0.331 0.741 -48.245 34.307 performer Var 1876.507 14.973 ______ Mixed Linear Model Regression Results _____ Model: MixedLM Dependent Variable: F3
No. Observations: 226 Method: REML
No. Groups: 3 Scale: 98710.1980
Min. group size: 8 Log-Likelihood: -1608.7626
Max. group size: 130 Converged: Yes
Mean group size: 75.3 Coef. Std.Err. z P>|z| [0.025 0.975] -----Intercept 2438.754 169.183 14.415 0.000 2107.161 2770.347 ______

i,position

Mixed Linear Model Regression Results

Model: MixedLM Dependent Variable: euc
No. Observations: 135 Method: REML
No. Groups: 3 Scale: 193327.5852

Min. group size: Max. group size: Mean group size:	4 70 45.0	Coi	Log-Likelihood: -1003.9136 Converged: Yes			
	Coef.	Std.Err.	z	P> z	[0.025	0.975]
Intercept position[T.off] performer Var		130.984 79.524 110.217			1080.998 -153.787	
Mix	ed Linear	Model Reg	gressio	n Resul	ts	
Model: No. Observations No. Groups: Min. group size: Max. group size: Mean group size:	MixedI : 135 3 4 70 45.0	Metho Scale Log-I	od:	ariable	REML 9776	.3091 .8837
	Coef. S	Std.Err.	z P	 > z [[0.025 0	.975]
Intercept position[T.off] performer Var	462.801 11.406 9394.023	59.460 17.899 113.469	0.637 0	.524 -2		6.488
	ixed Line					
Model: No. Observations No. Groups: Min. group size: Max. group size: Mean group size:		Me ⁻ Sca Log Cor	pendent thod: ale: g-Likel		REI 15	9905.8521 90.9672
	Coef.	Std.Err.	z	P> z	[0.025	0.975]
Intercept position[T.off] performer Var	1815.278 11.121 16515.848	72.420			1627.799 -130.820	2002.756 153.062
Mixed Linear Model Regression Results						
Model: No. Observations No. Groups: Min. group size: Max. group size: Mean group size:	Mixed: 135 3 4 70 45.0	Me ¹ Sca Log	thod: ale: g-Likel nverged	: 	R 2: 	EML 2073.3383 861.6128 es

Coef. Std.Err. z P>|z| [0.025 0.975]

```
Intercept 2764.614 117.794 23.470 0.000 2533.743 2995.486
position[T.off] -83.059 26.906 -3.087 0.002 -135.794 -30.324
performer Var 39062.551 287.092
______
i,syllable
        Mixed Linear Model Regression Results
```

```
Model:
                    MixedLM Dependent Variable:
                                               euc
Min. group size: 4 Log-Likelihood:
Max. group size: 70 Converged:
Mean group size: 45.0
No. Observations: 135
                            Method:
                                                REML
                                               192583.2083
                                               -1003.6855
          Coef. Std.Err. z P>|z| [0.025
                                                   0.975]
Intercept 1304.922 134.523 9.700 0.000 1041.262 1568.581
syllable[T.2] 55.632 76.591 0.726 0.468 -94.484 205.747
performer Var 32164.506 107.586
______
           Mixed Linear Model Regression Results
______
                  MixedLM Dependent Variable: F1
Model:
No. Observations: 135 Method:
                                             REML
No. Groups: 3 Scale: 9804.7263
Min. group size: 4 Log-Likelihood: -807.1026
Max. group size: 70 Converged: Yes
Mean group size: 45.0
            Coef. Std.Err. z P>|z| [0.025 0.975]
Intercept 465.503 59.807 7.783 0.000 348.283 582.723 syllable[T.2] 3.397 17.307 0.196 0.844 -30.523 37.318
performer Var 9322.898 112.656
______
        Mixed Linear Model Regression Results
_____
                  MixedLM
                            Dependent Variable: F2
Model:
                      Method:
No. Observations: 135
                                                REML
No. Groups: 3 Scale:
Min. group size: 4 Log-Likelihood:
Max. group size: 70 Converged:
Mean group size: 45.0
                                                159109.5381
                                               -990.6740
                                                Yes
               Coef.
                      Std.Err. z P>|z| [0.025 0.975]
```

Intercept 1785.706 100.263 17.810 0.000 1589.194 1982.218

syllable[T.2] 57.408 69.602 0.825 0.409 -79.010 193.826 performer Var 16553.634 56.193 ______

Mixed Linear Model Regression Results

Model: MixedLM Dependent Variable: F3

No. Observations: 135 Method: REML
No. Groups: 3 Scale: 23709.7408
Min. group size: 4 Log-Likelihood: -866.2337
Max. group size: 70 Converged: Yes
Mean group size: 45.0

______ Coef. Std.Err. z P>|z| [0.025 0.975]

Intercept 2726.315 112.958 24.136 0.000 2504.922 2947.709 syllable[T.2] 3.378 26.913 0.126 0.900 -49.371 56.128

performer Var 35046.398 252.645

i,position + syllable

Mixed Linear Model Regression Results

Model: MixedLM Dependent Variable: euc
No. Observations: 135 Method: REML
No. Groups: 3 Scale: 194058.5151
Min. group size: 4 Log-Likelihood: -998.3716
Max. group size: 70 Converged: Yes
Mean group size: 45.0

Coef. Std.Err. z P>|z| [0.025 0.975]

Intercept 1306.953 136.273 9.591 0.000 1039.862 1574.044 position[T.off] -8.066 80.879 -0.100 0.921 -166.585 150.454 syllable[T.2] 56.971 78.040 0.730 0.465 -95.985 209.927

performer Var 31926.903 106.955

Mixed Linear Model Regression Results

Model: MixedLM Dependent Variable: F1

No. Observations: 135 Method: REML
No. Groups: 3 Scale: 9850.5732
Min. group size: 4 Log-Likelihood: -803.0952
Max. group size: 70 Converged: Yes
Mean group size: 45.0

Coef. Std.Err. z P>|z| [0.025 0.975]

Intercept 461.981 60.351 7.655 0.000 343.695 580.267 position[T.off] 11.127 18.229 0.610 0.542 -24.602 46.855 syllable[T.2] 1.580 17.600 0.090 0.928 -32.915 36.076 performer Var 9409.610 113.420

Mixed Linear Model Regression Results

MixedLM Dependent Variable: F2 Model:

Model: Mixeulm Dependent Variable.

No. Observations: 135 Method: REML

No. Groups: 3 Scale: 160319.9746

Min. group size: 4 Log-Likelihood: -985.4613

Max. group size: 70 Converged: Yes

Mean group size: 45.0

Coef. Std.Err. z P>|z| [0.025 0.975]

Intercept 1785.380 102.649 17.393 0.000 1584.192 1986.568 position[T.off] 0.963 73.599 0.013 0.990 -143.288 145.214 syllable[T.2] 57.245 70.908 0.807 0.419 -81.732 196.221

performer Var 16621.256 56.396

Mixed Linear Model Regression Results

Model: MixedLM Dependent Variable: F3
No. Observations: 135 Method: REML
No. Groups: 3 Scale: 22175.4297
Min. group size: 4 Log-Likelihood: -857.2062
Max. group size: 70 Converged: Yes
Mean group size: 45.0

Coef. Std.Err. z P>|z| [0.025 0.975]

Intercept 2754.890 117.761 23.394 0.000 2524.082 2985.698 position[T.off] -86.081 27.360 -3.146 0.002 -139.705 -32.456 syllable[T.2] 17.322 26.405 0.656 0.512 -34.430 69.074

performer Var 38371.875 281.936

u,position

Mixed Linear Model Regression Results

______ MixedLM Dependent Variable: euc Model:

No. Observations: 82 Method: REML
No. Groups: 3 Scale: 17273.5755
Min. group size: 4 Log-Likelihood: -511.8639
Max. group size: 44 Converged: Yes
Mean group size: 27.3

Coef. Std.Err. z P>|z| [0.025 0.975]

Intercept 638.048 177.412 3.596 0.000 290.327 985.769

```
position[T.off] 40.422 29.823 1.355 0.175 -18.030 98.873
performer Var 91937.555 732.070
______
          Mixed Linear Model Regression Results
MixedLM Dependent Variable: F1
Model:
No. Observations: 82 Method:
No. Groups: 3 Scale:
Min. group size: 4 Log-Likelihood:
Max. group size: 44 Converged:
Mean group size: 27.3
                                           REML
                                          7730.5233
-477.6166
_____
            Coef. Std.Err. z P>|z| [0.025 0.975]
Intercept 567.493 43.574 13.024 0.000 482.089 652.897
position[T.off] -17.477 19.933 -0.877 0.381 -56.545 21.592
performer Var 4447.651 67.985
_____
       Mixed Linear Model Regression Results
______
                 MixedLM Dependent Variable: F2
Model:
No. Observations: 82 Method: REML
No. Groups: 3 Scale: 13462.7576
Min. group size: 4 Log-Likelihood: -501.5294
Max. group size: 44 Converged: Yes
Mean group size: 27.3
_____
             Coef. Std.Err. z P>|z| [0.025 0.975]
Intercept 1196.119 130.778 9.146 0.000 939.799 1452.440
position[T.off] 22.699 26.327 0.862 0.389 -28.901 74.299
performer Var 49357.199 451.501
_____
         Mixed Linear Model Regression Results
______
                 MixedLM Dependent Variable: F3
Model:
No. Observations: 82 Method:
No. Groups: 3 Scale:
Min. group size: 4 Log-Likelihood:
Max. group size: 44 Converged:
Mean group size: 27.3
                                             REML
                                            70692.7181
                                           −565.4662
Yes
               Coef. Std.Err. z P>|z| [0.025 0.975]
Intercept 2252.914 92.661 24.313 0.000 2071.302 2434.527 position[T.off] 116.575 60.453 1.928 0.054 -1.910 235.061
performer Var 17554.011 76.619
______
```

Mixed Linear Model Regression Results

=======================================	========	=====	======	======	=====	====	======
Model: No. Observations: No. Groups: Min. group size: Max. group size: Mean group size:	MixedLM 82 3 4 44 27.3	Med Sca Log				euc REML 17673.2152 -512.7236 Yes	
Co	ef. Std.	Err.	z	P> z	[0.0)25	0.975]
Intercept 65 syllable[T.2] performer Var 9221			0.157	0.875	-56.4	27	
	Linear Mod	lel R					
Model: No. Observations: No. Groups: Min. group size: Max. group size: Mean group size:	MixedLM 82 3 4 44 27.3	Med Sca Log	thod: ale:	t Varia			64.6968 77.8275
Соє	f. Std.E	rr.	Z	P> z	[0.0	25	0.975]
Intercept 563 syllable[T.2] -10 performer Var 4831	.966 44. .992 20. .306 73.	999 1 848 - 003	12.533 -0.527	0.000 0.598	475.7 -51.8	769 6 853	552.163 29.870
	Linear Mo		_				
Model: No. Observations: No. Groups: Min. group size: Max. group size: Mean group size:	MixedLM 82 3 4 44 27.3	Der Met Sca Log	oendent thod: ale:	t Varia lihood:	able:	F2 RE 13	2 EML 3580.3661 501.8110
Co	ef. Std.	Err.	z	P> z	[0.	025	0.975]
	8.918 27						1466.120 44.877
Mixed Linear Model Regression Results							
Model: No. Observations:	MixedLM 82		epender	nt Vari	iable:		 -3 REML

No. Groups: Min. group size: Max. group size: Mean group size:	3 4 44 27.3	Lo Co	cale: og-Like onverge	-!	3517.5481 567.1079 es	
Coe	ef. S	td.Err.	Z	P> z	[0.025	0.975]
Intercept 2293 syllable[T.2] 34 performer Var 21005	.784	100.961 63.384 87.942		0.000 0.583	2095.204 -89.447	2490.962 159.015
u,position + syllab						
Mixed =========	Linear =====	Model =====	Regress: =====	ion Res ======	ults ======	=======
Model: MixedLM Dependent Variable: euc No. Observations: 82 Method: REML No. Groups: 3 Scale: 17490.546 Min. group size: 4 Log-Likelihood: -507.4403 Max. group size: 44 Converged: Yes Mean group size: 27.3						
(oef.	Std.Er	r. z	P> z	[0.02	5 0.975]
<pre>position[T.off] syllable[T.2]</pre>		31.3 32.4	16 1.3! 95 -0.23	58 0.17		2 987.485 3 103.911 4 56.016
Mixed	===== Linear	====== Model I	====== Regress:	===== ion Res	====== ults	======
Model: No. Observations: No. Groups: Min. group size: Max. group size: Mean group size:	Mixe 82 3 4 44 27.3	Mo So Lo Co	ependen ethod: cale: og-Like onverge	lihood:	RI 78 	====== 1 EML 812.7862 473.5855
Cc	ef.	Std.Err	. Z	P> z	[0.025	0.975]
position[T.off] -1 syllable[T.2] -	9.765 5.756 6.274 5.260	20.91	3 -0.753 8 -0.283	3 0.451	481.208 -56.744 -49.056	25.233
Mixed	Linea	r Model	Regres	sion Re	sults	
Model: No. Observations:	===== Mix 82		====== Depende Method:	nt Vari		======= F2 REML

No. Groups: Min. group size: Max. group size: Mean group size:	44	Log Cor	Scale: Log-Likelihood: Converged:			13587.8392 -497.0818 Yes		
	Coef.	Std.Err.	Z	P> z	[0 . 025	0.975]		
Intercept position[T.off] syllable[T.2] performer Var		27.600 28.651	0.992	0.321	949.818 -26.703 -73.201	1455.239 81.489 39.108		
P	Mixed Linear Model Regression Results							
Model: No. Observations No. Groups: Min. group size: Max. group size: Mean group size:	3 4 44	Med Sca Log	pendent thod: ale: g-Likel: nverged	ihood:	R 7 -	:3 REML 1596.0699 :560.3731 es		
	Coef.	Std.Err.	Z	P> z	[0.025	0.975]		
Intercept position[T.off] syllable[T.2] performer Var	2252.559 116.374 0.843 17663.301	-	1.835	0.067	2062.057 -7.948 -126.919			

None