

MODEL 1: INTERCEPT-ONLY

REML criterion at convergence: 23050.4

Scaled residuals:

Min	1Q	Median	3Q	Max
-5.4147	-0.5109	-0.0392	0.5204	4.9398

Random effects:

Groups	Name	Variance	Std.Dev.
ResponseId	(Intercept)	0.07826	0.2797
BaseSound	(Intercept)	0.07497	0.2738
Residual		2.93602	1.7135

Number of obs: 5844, groups: ResponseId, 116; BaseSound, 52

Fixed effects:

	Estimate	Std. Error	df	t value	Pr(> t)
(Intercept)	0.4574	0.0512	79.8427	8.934	1.2e-13 ***

MODEL 2: SPECIES AND INTRA-PAIR INTERVAL

REML criterion at convergence: 23023

Scaled residuals:

Min	1Q	Median	3Q	Max
-5.4739	-0.5144	-0.0441	0.5289	4.9924

Random effects:

Groups	Name	Variance	Std.Dev.
ResponseId	(Intercept)	0.07883	0.2808
BaseSound	(Intercept)	0.03319	0.1822
Residual		2.92732	1.7109

Number of obs: 5844, groups: ResponseId, 116; BaseSound, 52

Fixed effects:

	Estimate	Std. Error	df	t value	Pr(> t)
(Intercept)	5.295e-01	8.737e-02	7.538e+01	6.060	4.98e-08 ***
Interval	-2.268e-02	5.325e-03	5.773e+03	-4.259	2.09e-05 ***
SpeciesCricket	3.744e-01	1.267e-01	4.775e+01	2.954	0.00486 **
SpeciesFrog	4.683e-02	1.268e-01	4.781e+01	0.369	0.71350
SpeciesMonkey	-2.941e-01	1.086e-01	4.579e+01	-2.708	0.00949 **
SpeciesRaven	3.511e-01	1.133e-01	5.424e+01	3.098	0.00308 **
SpeciesSeal	8.877e-02	1.086e-01	4.571e+01	0.818	0.41776

Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

Correlation of Fixed Effects:

	(Intr)	Intrvl	SpCsCr	SpCsFr	SpCsMn	SpCsRv
Interval		-0.372				

SpecisCrckt	-0.576	0.116				
SpeciesFrog	-0.575	0.115	0.381			
SpeciesMnky	-0.624	0.006	0.429	0.429		
SpeciesRavn	-0.494	-0.275	0.379	0.379	0.478	
SpeciesSeal	-0.625	0.009	0.430	0.430	0.500	0.477

Type III Analysis of Variance Table with Satterthwaite's method

	Sum Sq	Mean Sq	NumDF	DenDF	F value	Pr(>F)
Interval	53.098	53.098	1	5772.5	18.1389	2.086e-05 ***
Species	131.683	26.337	5	49.4	8.9969	3.947e-06 ***

Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

Emmeans

Species	emmean	SE	df	asympt.LCL	asympt.UCL
Cat	0.3817	0.0811	Inf	0.2227	0.541
Cricket	0.7560	0.1045	Inf	0.5513	0.961
Frog	0.4285	0.1045	Inf	0.2236	0.633
Monkey	0.0876	0.0812	Inf	-0.0715	0.247
Raven	0.7328	0.0865	Inf	0.5632	0.902
Seal	0.4705	0.0811	Inf	0.3115	0.629

Degrees-of-freedom method: asymptotic

Confidence level used: 0.95

\$contrasts

contrast	estimate	SE	df	z.ratio	p.value
Cat - Cricket	-0.3744	0.127	Inf	-2.954	0.0370
Cat - Frog	-0.0468	0.127	Inf	-0.369	0.9991
Cat - Monkey	0.2941	0.109	Inf	2.708	0.0736
Cat - Raven	-0.3511	0.113	Inf	-3.098	0.0239
Cat - Seal	-0.0888	0.109	Inf	-0.818	0.9644
Cricket - Frog	0.3275	0.141	Inf	2.321	0.1854
Cricket - Monkey	0.6685	0.127	Inf	5.278	<.0001
Cricket - Raven	0.0233	0.134	Inf	0.173	1.0000
Cricket - Seal	0.2856	0.127	Inf	2.256	0.2123
Frog - Monkey	0.3409	0.127	Inf	2.691	0.0770
Frog - Raven	-0.3043	0.134	Inf	-2.266	0.2079
Frog - Seal	-0.0419	0.127	Inf	-0.331	0.9995
Monkey - Raven	-0.6452	0.113	Inf	-5.685	<.0001
Monkey - Seal	-0.3829	0.109	Inf	-3.527	0.0056
Raven - Seal	0.2623	0.114	Inf	2.311	0.1896

Degrees-of-freedom method: asymptotic

P value adjustment: tukey method for comparing a family of 6 estimates

MODEL 3: EXPERIENCE WITH CATS

REML criterion at convergence: 4470.1

Scaled residuals:

	Min	1Q	Median	3Q	Max
	-3.7822	-0.5778	-0.1195	0.4537	5.0004

Random effects:

Groups	Name	Variance	Std.Dev.
	ResponseId (Intercept)	0.09391	0.3064
	BaseSound (Intercept)	0.03333	0.1826
	Residual	2.89231	1.7007

Number of obs: 1135, groups: ResponseId, 116; BaseSound, 10

Fixed effects:

	Estimate	Std. Error	df	t value	Pr(> t)
(Intercept)	0.4896	0.1157	37.8282	4.232	0.000142 ***
HadCatsY	-0.1466	0.1229	111.4735	-1.193	0.235339

Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

Emmeans

HadCats	emmean	SE	df	lower.CL	upper.CL
N	0.490	0.1157	37.9	0.255	0.724
Y	0.343	0.0916	17.2	0.150	0.536

Degrees-of-freedom method: kenward-roger

Confidence level used: 0.95

MODEL 4: SPECIES SEPARATE MACAQUE CALL TYPES

REML criterion at convergence: 23017.5

Scaled residuals:

	Min	1Q	Median	3Q	Max
	-5.4681	-0.5049	-0.0482	0.5236	4.9994

Random effects:

Groups	Name	Variance	Std.Dev.
	ResponseId (Intercept)	0.07879	0.2807
	BaseSound (Intercept)	0.02529	0.1590
	Residual	2.92733	1.7109

Number of obs: 5844, groups: ResponseId, 116; BaseSound, 52

Fixed effects:

	Estimate	Std. Error	df	t value	Pr(> t)
(Intercept)	5.284e-01	8.272e-02	7.853e+01	6.388	1.10e-08 ***
Interval	-2.250e-02	5.324e-03	5.774e+03	-4.226	2.42e-05 ***
CallTypeCricket	3.749e-01	1.181e-01	4.698e+01	3.174	0.00265 **
CallTypeFrog	4.756e-02	1.182e-01	4.705e+01	0.402	0.68917
CallTypeMonkey_Coo	-9.080e-02	1.238e-01	4.473e+01	-0.734	0.46697

CallTypeMonkey_Scream	-4.976e-01	1.238e-01	4.477e+01	-4.020	0.00022	***
CallTypeRaven	3.500e-01	1.061e-01	5.435e+01	3.299	0.00172	**
CallTypeSeal	8.877e-02	1.010e-01	4.467e+01	0.879	0.38423	

Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

Correlation of Fixed Effects:

	(Intr)	Intrvl	Cl1TyC	Cl1TyF	Cl1TM_C	Cl1TM_S	Cl1TyR
Interval	-0.392						
Cl1TypCrckt	-0.572	0.125					
CallTypeFrg	-0.571	0.123	0.381				
Cl1TypMnk_C	-0.505	0.014	0.351	0.351			
Cl1TypMnk_S	-0.497	-0.004	0.349	0.349	0.334		
CallTypeRvn	-0.467	-0.293	0.371	0.371	0.385	0.390	
CallTypeSel	-0.615	0.010	0.429	0.429	0.409	0.409	0.474

Type III Analysis of Variance Table with Satterthwaite's method

	Sum Sq	Mean Sq	NumDF	DenDF	F value	Pr(>F)
Interval	52.268	52.268	1	5774.2	17.8553	2.420e-05 ***
CallType	175.365	29.227	6	48.1	9.9844	3.822e-07 ***

Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

Emmeans

CallType	emmean	SE	df	asympt.LCL	asympt.UCL
Cat	0.382	0.0761	Inf	0.2326	0.5310
Cricket	0.757	0.0980	Inf	0.5647	0.9488
Frog	0.429	0.0980	Inf	0.2372	0.6215
Monkey_Coo	0.291	0.1044	Inf	0.0864	0.4956
Monkey_Scream	-0.116	0.1044	Inf	-0.3204	0.0888
Raven	0.732	0.0818	Inf	0.5714	0.8923
Seal	0.471	0.0761	Inf	0.3215	0.6196

Degrees-of-freedom method: asymptotic

Confidence level used: 0.95

\$contrasts

contrast	estimate	SE	df	z.ratio	p.value
Cat - Cricket	-0.3749	0.118	Inf	-3.174	0.0253
Cat - Frog	-0.0476	0.118	Inf	-0.402	0.9997
Cat - Monkey_Coo	0.0908	0.124	Inf	0.734	0.9905
Cat - Monkey_Scream	0.4976	0.124	Inf	4.020	0.0011
Cat - Raven	-0.3500	0.106	Inf	-3.299	0.0169
Cat - Seal	-0.0888	0.101	Inf	-0.879	0.9758
Cricket - Frog	0.3274	0.131	Inf	2.491	0.1624
Cricket - Monkey_Coo	0.4657	0.138	Inf	3.379	0.0129
Cricket - Monkey_Scream	0.8726	0.138	Inf	6.318	<.0001
Cricket - Raven	0.0249	0.126	Inf	0.197	1.0000
Cricket - Seal	0.2862	0.118	Inf	2.426	0.1876
Frog - Monkey_Coo	0.1384	0.138	Inf	1.004	0.9534

Frog - Monkey_Scream	0.5452	0.138	Inf	3.947	0.0015
Frog - Raven	-0.3025	0.126	Inf	-2.398	0.1993
Frog - Seal	-0.0412	0.118	Inf	-0.349	0.9999
Monkey_Coo - Monkey_Scream	0.4068	0.143	Inf	2.847	0.0665
Monkey_Coo - Raven	-0.4408	0.128	Inf	-3.435	0.0106
Monkey_Coo - Seal	-0.1796	0.124	Inf	-1.452	0.7734
Monkey_Scream - Raven	-0.8477	0.128	Inf	-6.632	<.0001
Monkey_Scream - Seal	-0.5864	0.124	Inf	-4.739	<.0001
Raven - Seal	0.2613	0.106	Inf	2.457	0.1752

Degrees-of-freedom method: asymptotic

P value adjustment: tukey method for comparing a family of 7 estimates