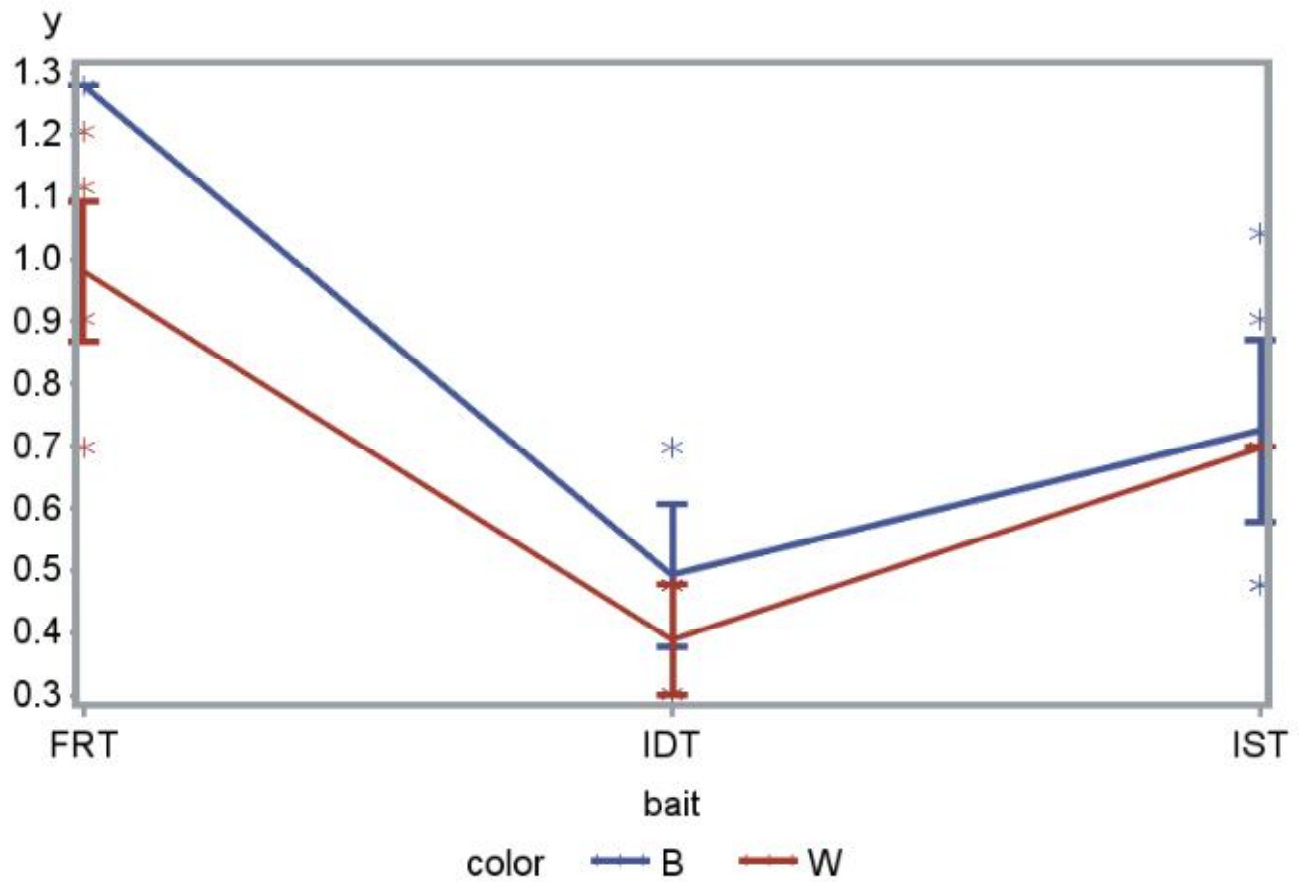


Two-way ANOVA for T. dubius counts
Data from Reeve et al. (2009)

Obs	bait	color	Tdubius	y
1	FRT	B	18	1.27875
2	FRT	W	12	1.11394
3	FRT	W	15	1.20412
4	FRT	W	7	0.90309
5	FRT	W	4	0.69897
6	IDT	B	2	0.47712
7	IDT	B	1	0.30103
8	IDT	B	4	0.69897
9	IDT	W	2	0.47712
10	IDT	W	1	0.30103
11	IST	B	2	0.47712
12	IST	B	2	0.47712
13	IST	B	10	1.04139
14	IST	B	7	0.90309
15	IST	W	4	0.69897

Two-way ANOVA for *T. dubius* counts
Data from Reeve et al. (2009)



Two-way ANOVA for T. dubius counts
Data from Reeve et al. (2009)

The GLM Procedure

Class Level Information		
Class	Levels	Values
bait	3	FRT IDT IST
color	2	B W

Number of Observations Read	15
Number of Observations Used	15

Two-way ANOVA for T. dubius counts
Data from Reeve et al. (2009)

The GLM Procedure

Dependent Variable: y

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	0.95343427	0.19068685	3.41	0.0526
Error	9	0.50280246	0.05586694		
Corrected Total	14	1.45623672			

R-Square	Coeff Var	Root MSE	y Mean
0.654725	32.07997	0.236362	0.736790

Source	DF	Type II SS	Mean Square	F Value	Pr > F
bait	2	0.90584753	0.45292376	8.11	0.0097
color	1	0.05252717	0.05252717	0.94	0.3576
bait*color	2	0.03219452	0.01609726	0.29	0.7563

Source	DF	Type III SS	Mean Square	F Value	Pr > F
bait	2	0.91062846	0.45531423	8.15	0.0096
color	1	0.05488645	0.05488645	0.98	0.3475
bait*color	2	0.03219452	0.01609726	0.29	0.7563

Two-way ANOVA for T. dubius counts
Data from Reeve et al. (2009)

The GLM Procedure
Least Squares Means
Adjustment for Multiple Comparisons: Tukey-Kramer

bait	y LSMEAN	LSMEAN Number
FRT	1.12939222	1
IDT	0.44072469	2
IST	0.71182565	3

Least Squares Means for effect bait Pr > t for H0: LSMean(i)=LSMean(j) Dependent Variable: y			
i/j	1	2	3
1		0.0074	0.1182
2	0.0074		0.2987
3	0.1182	0.2987	

bait	y LSMEAN	95% Confidence Limits	
FRT	1.129392	0.830493	1.428292
IDT	0.440725	0.196674	0.684775
IST	0.711826	0.412926	1.010725

Least Squares Means for Effect bait				
i	j	Difference Between Means	Simultaneous 95% Confidence Limits for LSMean(i)-LSMean(j)	
1	2	0.688668	0.212419	1.164916
1	3	0.417567	-0.104137	0.939270
2	3	-0.271101	-0.747349	0.205147

Tukey-Kramer Comparison Lines for Least Squares Means of bait				
LS-means with the same letter are not significantly different.				
		y LSMEAN	bait	LSMEAN Number
	A	1.12939222	FRT	1
	A			
B	A	0.71182565	IST	3
B				
B		0.44072469	IDT	2

Two-way ANOVA for T. dubius counts
Data from Reeve et al. (2009)

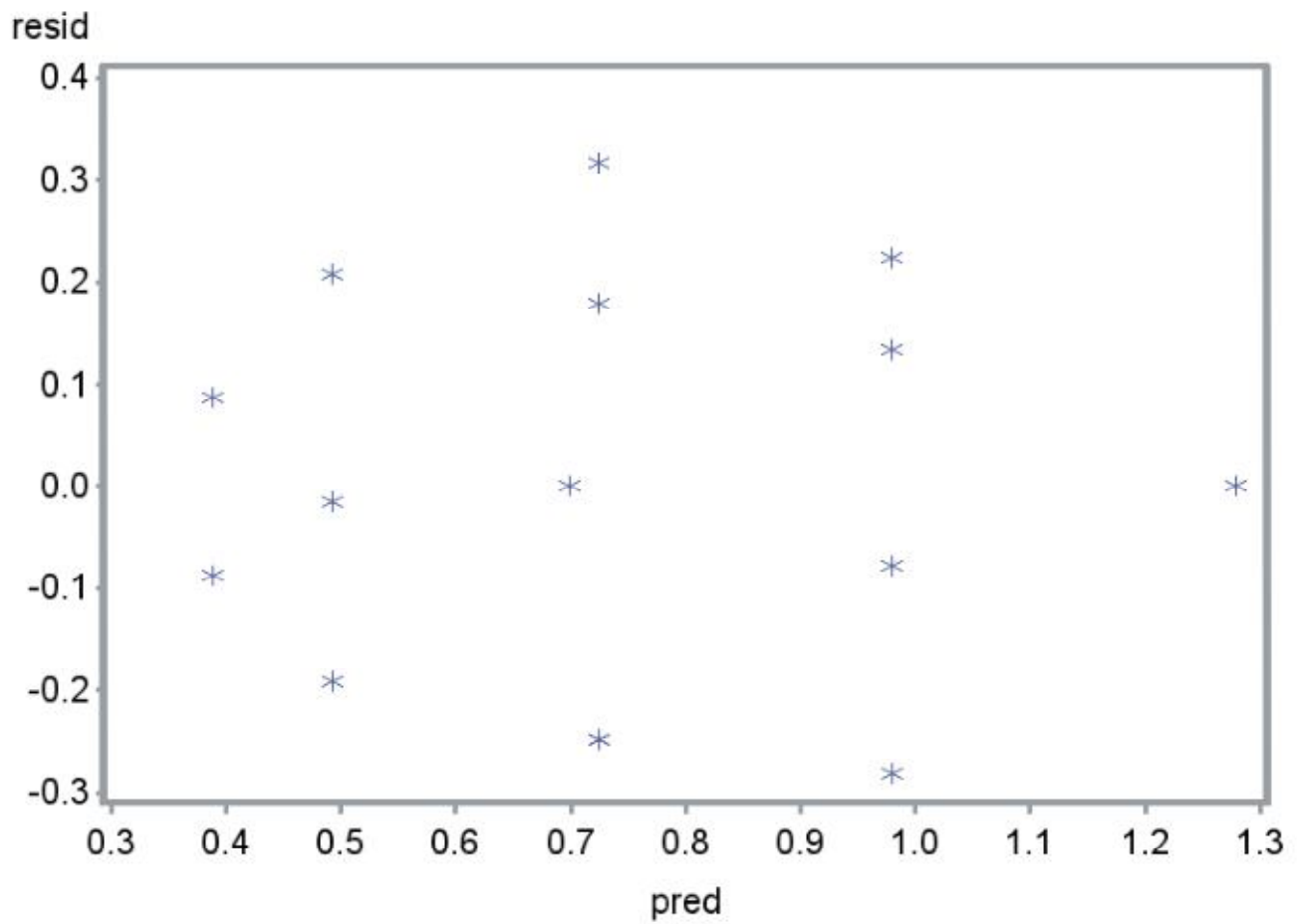
The GLM Procedure
Least Squares Means
Adjustment for Multiple Comparisons: Tukey-Kramer

color	y LSMEAN	H0:LSMean1=LSMean2
		Pr > t
B	0.83193622	0.3475
W	0.68935882	

color	y LSMEAN	95% Confidence Limits	
B	0.831936	0.607669	1.056203
W	0.689359	0.453584	0.925134

Least Squares Means for Effect color				
i	j	Difference Between Means	Simultaneous 95% Confidence Limits for LSMean(i)-LSMean(j)	
1	2	0.142577	-0.182821	0.467976

Tukey-Kramer Comparison Lines for Least Squares Means of color			
LS-means with the same letter are not significantly different.			
	y LSMEAN	color	LSMEAN Number
A	0.83193622	B	1
A			
A	0.68935882	W	2

Diagnostic plots to check anova assumptions

The UNIVARIATE Procedure

Diagnostic plots to check anova assumptions

