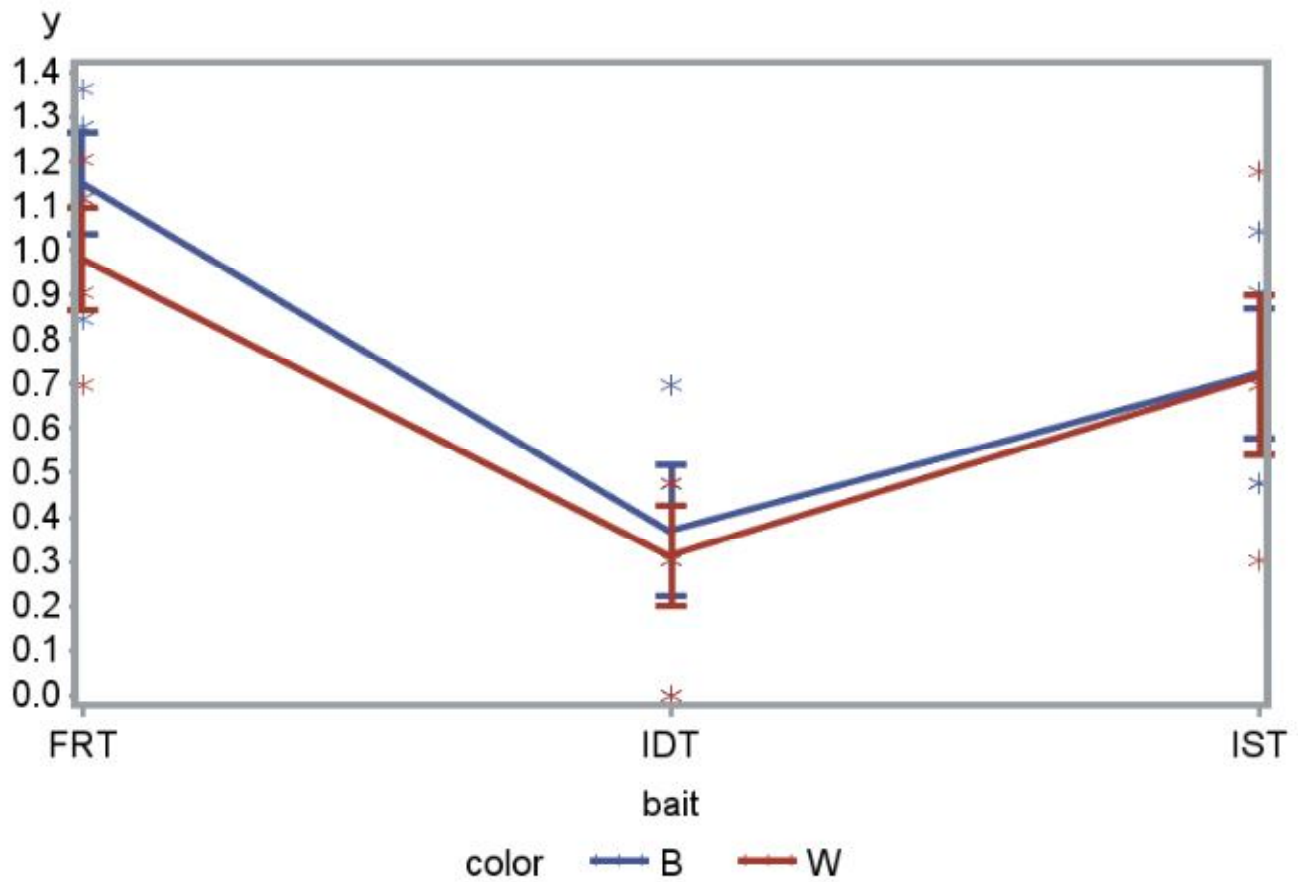


**Two-way ANOVA for T. dubius counts**  
**Data from Reeve et al. (2009)**

Obs	bait	color	Tdubius	y
1	FRT	B	18	1.27875
2	FRT	B	12	1.11394
3	FRT	B	22	1.36173
4	FRT	B	6	0.84510
5	FRT	W	12	1.11394
6	FRT	W	15	1.20412
7	FRT	W	7	0.90309
8	FRT	W	4	0.69897
9	IDT	B	0	0.00000
10	IDT	B	2	0.47712
11	IDT	B	1	0.30103
12	IDT	B	4	0.69897
13	IDT	W	2	0.47712
14	IDT	W	1	0.30103
15	IDT	W	2	0.47712
16	IDT	W	0	0.00000
17	IST	B	2	0.47712
18	IST	B	2	0.47712
19	IST	B	10	1.04139
20	IST	B	7	0.90309
21	IST	W	1	0.30103
22	IST	W	4	0.69897
23	IST	W	14	1.17609
24	IST	W	4	0.69897

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



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**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

<b>Number of Observations Read</b>	24
<b>Number of Observations Used</b>	24

**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
<b>Model</b>	5	2.15900779	0.43180156	5.71	0.0025
<b>Error</b>	18	1.36120842	0.07562269		
<b>Corrected Total</b>	23	3.52021621			

R-Square	Coeff Var	Root MSE	y Mean
0.613317	38.76405	0.274996	0.709409

Source	DF	Type I SS	Mean Square	F Value	Pr > F
<b>bait</b>	2	2.09508772	1.04754386	13.85	0.0002
<b>color</b>	1	0.03564427	0.03564427	0.47	0.5011
<b>bait*color</b>	2	0.02827579	0.01413790	0.19	0.8311

Source	DF	Type III SS	Mean Square	F Value	Pr > F
<b>bait</b>	2	2.09508772	1.04754386	13.85	0.0002
<b>color</b>	1	0.03564427	0.03564427	0.47	0.5011
<b>bait*color</b>	2	0.02827579	0.01413790	0.19	0.8311

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

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

bait	y LSMEAN	LSMEAN Number
FRT	1.06495577	1
IDT	0.34154922	2
IST	0.72172331	3

Least Squares Means for effect bait Pr >  t  for H0: LSMean(i)=LSMean(j) Dependent Variable: y			
i/j	1	2	3
1		0.0001	0.0558
2	0.0001		0.0326
3	0.0558	0.0326	

bait	y LSMEAN	95% Confidence Limits	
FRT	1.064956	0.860692	1.269219
IDT	0.341549	0.137286	0.545813
IST	0.721723	0.517460	0.925987

Least Squares Means for Effect bait				
i	j	Difference Between Means	Simultaneous 95% Confidence Limits for LSMean(i)-LSMean(j)	
1	2	0.723407	0.372489	1.074324
1	3	0.343232	-0.007685	0.694150
2	3	-0.380174	-0.731091	-0.029257

**Tukey Comparison Lines for Least Squares Means of bait**

LS-means with the same letter are not significantly different.			
	y LSMEAN	bait	LSMEAN Number
A	1.06495577	FRT	1
A			
A	0.72172331	IST	3
B	0.34154922	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

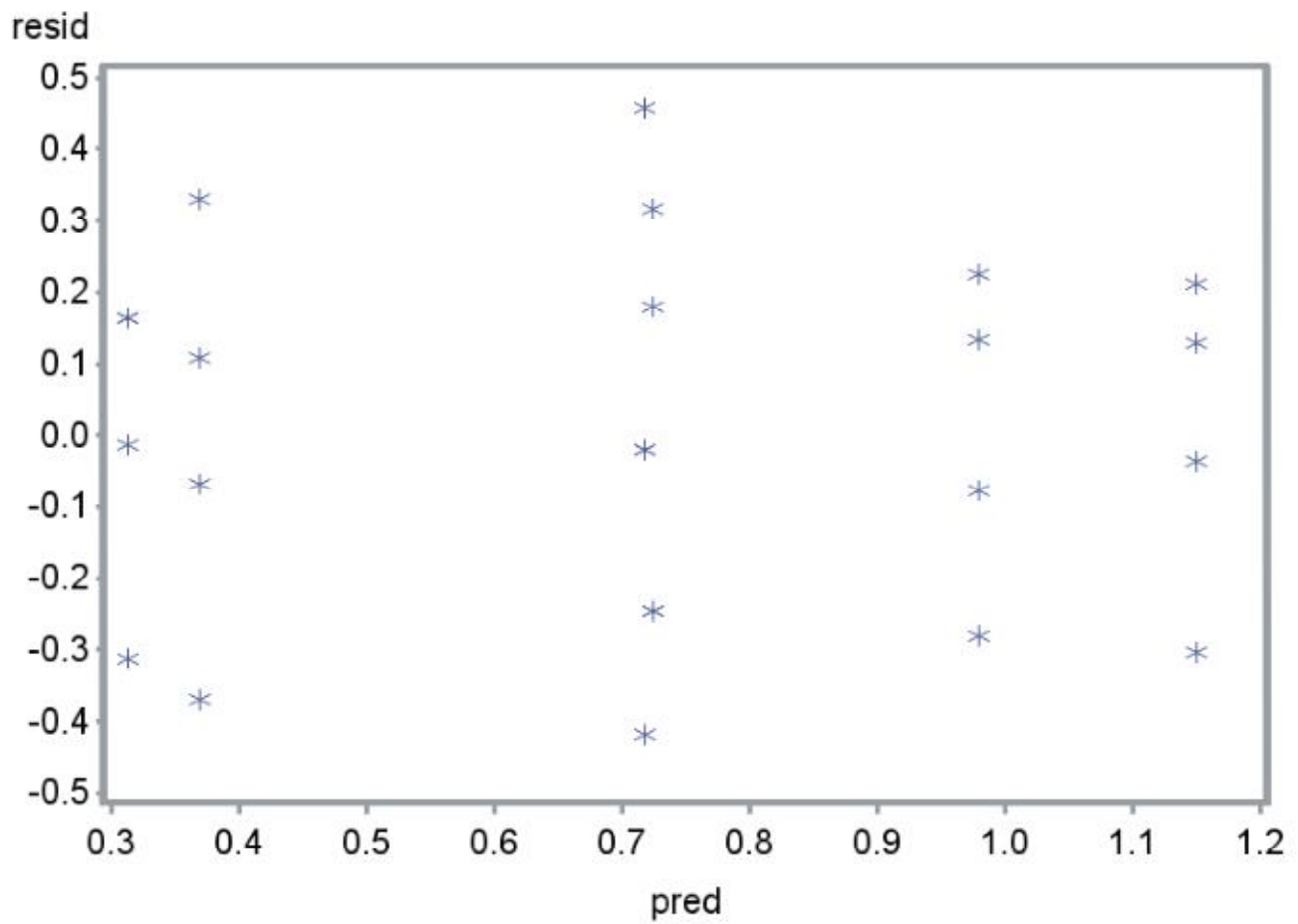
color	y LSMEAN	H0:LSMean1=LSMean2
		Pr >  t
<b>B</b>	0.74794744	0.5011
<b>W</b>	0.67087142	

color	y LSMEAN	95% Confidence Limits	
<b>B</b>	0.747947	0.581167	0.914728
<b>W</b>	0.670871	0.504091	0.837652

Least Squares Means for Effect color				
i	j	Difference Between Means	Simultaneous 95% Confidence Limits for LSMean(i)-LSMean(j)	
<b>1</b>	<b>2</b>	0.077076	-0.158779	0.312931

Tukey Comparison Lines for Least Squares Means of color			
LS-means with the same letter are not significantly different.			
	y LSMEAN	color	LSMEAN Number
A	0.74794744	<b>B</b>	1
A			
A	0.67087142	<b>W</b>	2

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**Diagnostic plots to check anova assumptions**

## The UNIVARIATE Procedure

## Diagnostic plots to check anova assumptions

