Single Factor Experiments CRD (SAS codes)

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CODE: Single Factor Experiments CRD (SAS codes).sas

```
DATA QUES_CRD;
     INPUT QUES $ OBS $ RESPONSE_RATE ;
     LABEL QUES='Different Colors'
     OBS='Observation'
     RESPONSE_RATE='Response Rate in Percentage' ;
DATALINES;
blue 1 28
blue 2 26
blue 3 31
blue 4 27
blue 5 35
green 1 34
green 2 39
green 3 25
green 4 31
green 5 29
orange 1 31
orange 2 25
orange 3 27
orange 4 29
orange 5 28
RUN;
PROC PRINT DATA=QUES_CRD ;
    TITLE 'Questionnaire Color: Single-Factor Experiments CRD';
RUN ;
PROC GLM DATA=QUES_CRD ;
     CLASS QUES;
     MODEL RESPONSE_RATE=QUES ;
     MEANS QUES;
RUN ;
```

RESULTS: Single Factor Experiments CRD (SAS codes).sas

Questionnaire Color: Single-Factor Experiments CRD

Obs	QUES	OBS	RESPONSE_RATE
1	blue	1	28
2	blue	2	26
3	blue	3	31
4	blue	4	27
5	blue	5	35
6	green	1	34
7	green	2	39
8	green	3	25
9	green	4	31
10	green	5	29
11	orange	1	31
12	orange	2	25
13	orange	3	27
14	orange	4	29
15	orange	5	28

Questionnaire Color: Single-Factor Experiments CRD The GLM Procedure

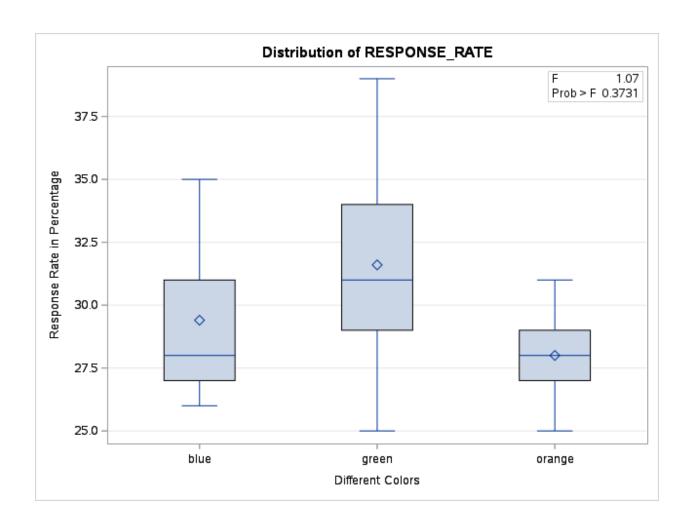
Class Level Information					
Class	Levels	Values			
QUES	3	blue green orange			
Number of Observations Read					
Number of Observations Used 15					

Questionnaire Color: Single-Factor Experiments CRD The GLM Procedure

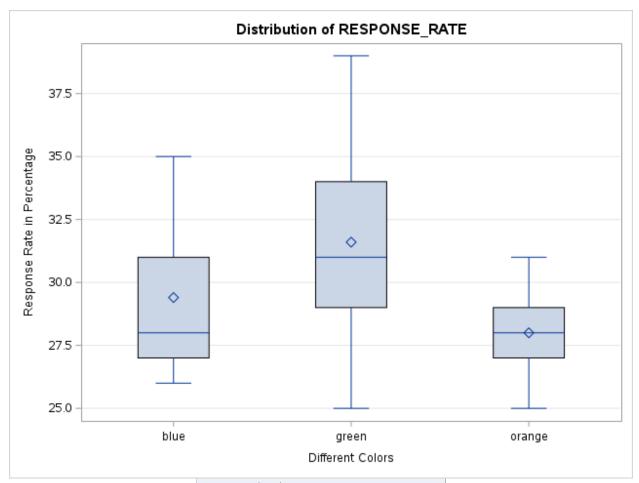
Dependent Variable: RESPONSE_RATE Response Rate in Percentage

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	2	32.9333333	16.4666667	1.07	0.3731
Error	12	184.4000000	15.3666667		
Corrected Total	14	217.3333333			

R-Squar	e C	Coeff Var Ro		Root MSE RESPO		NSE_RATE Mean	
0.15153	4 1	3.21360	3.920034		29.66667		
Source	DF	Type I SS		Mean Square		F Value	Pr > F
QUES	2	32.93333333		16.4666667		1.07	0.3731
Source	DF	Type II	ISS	Mean	Square	F Value	Pr > F
QUES	2	32.9333	3333	16.46	666667	1.07	0.3731



Questionnaire Color: Single-Factor Experiments CRD The GLM Procedure



		RESPONSE_RATE			
Level of QUES	N	Mean	Std Dev		
blue	5	29.4000000	3.64691651		
green	5	31.6000000	5.27257053		
orange	5	28.0000000	2.23606798		