M&M chi-sq goodness of fit Set-up

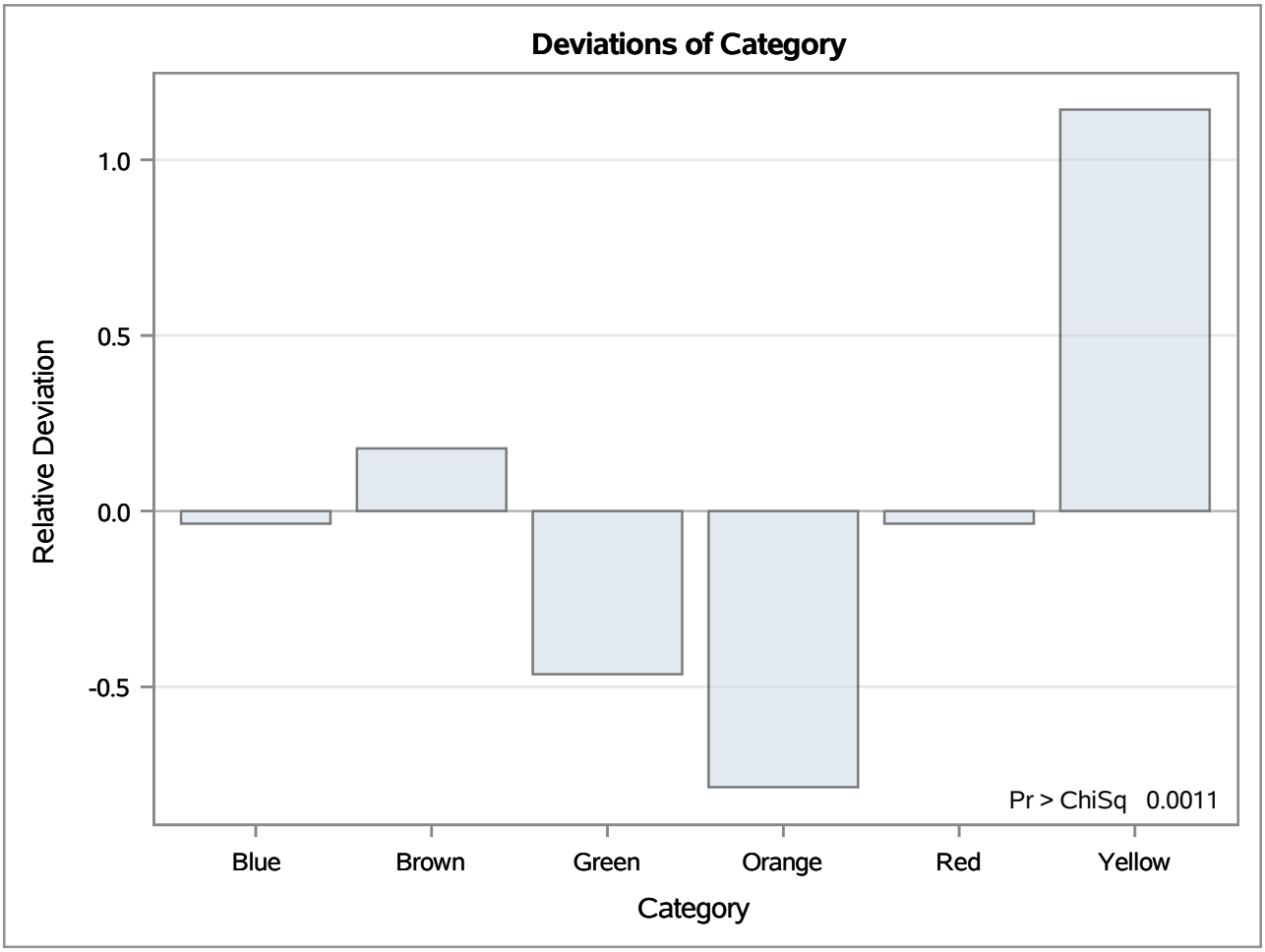
Obs	Category	Cat_code	Freq	Exp_prop	Exp_Freq
1	Orange	1	2	16.67%	9.34
2	Yellow	2	20	16.67%	9.34
3	Red	3	9	16.67%	9.34
4	Brown	4	11	16.67%	9.34
5	Green	5	5	16.67%	9.34
6	Blue	6	9	16.67%	9.34

M&M chi-sq goodness of fit analysis-EP proper

The FREQ Procedure

Category	Frequency	Percent	Cumulative Frequency	Cumulative Percent
Blue	9	16.07	9	16.07
Brown	11	19.64	20	35.71
Green	5	8.93	25	44.64
Orange	2	3.57	27	48.21
Red	9	16.07	36	64.29
Yellow	20	35.71	56	100.00

Chi-Square Test for Equal Proportions	
Chi-Square	20.2857
DF	5
Pr > ChiSq	0.0011



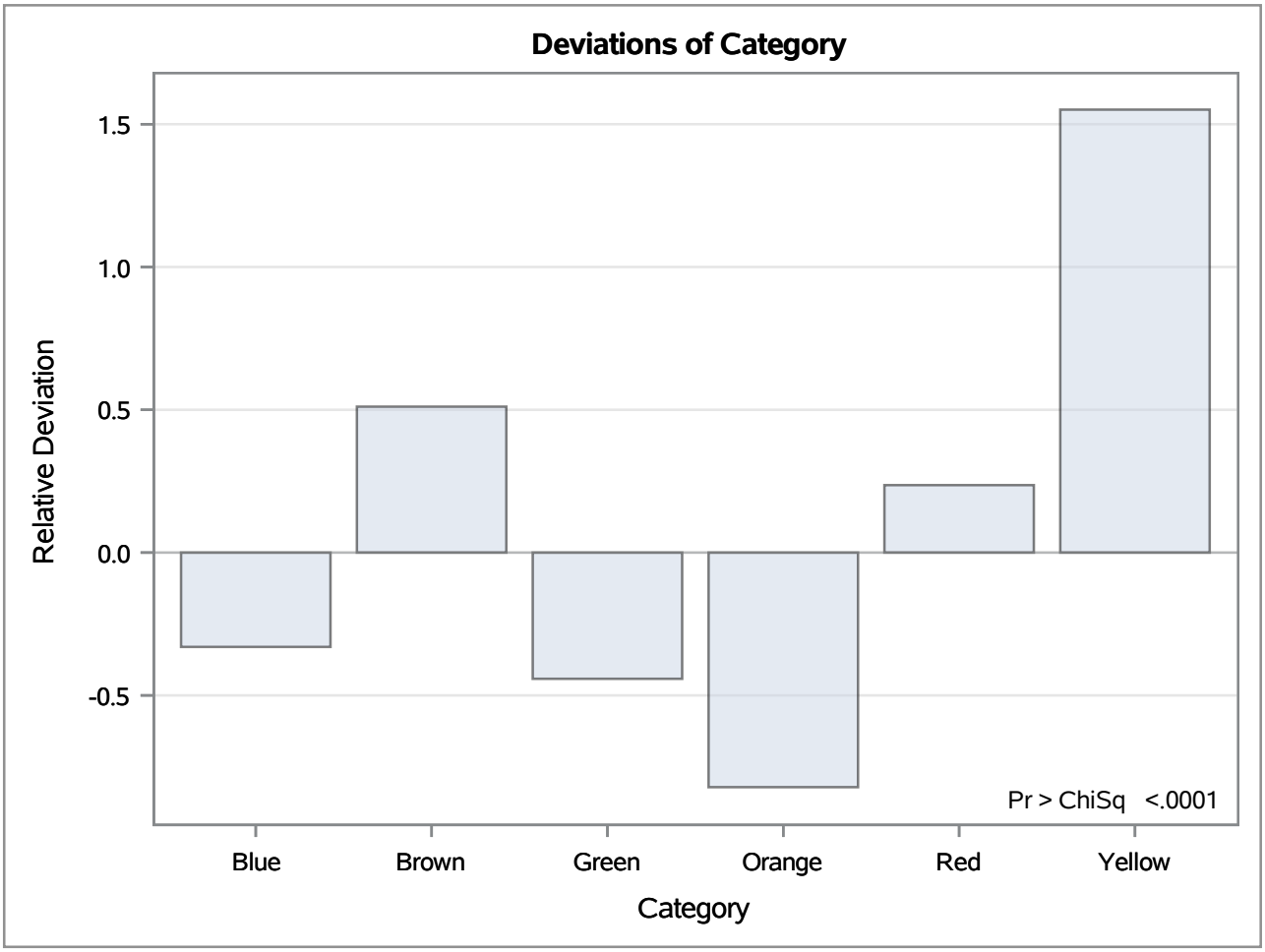
Sample Size = 56

M&M chi-sq goodness of fit analysis-UP proper

The FREQ Procedure

Category	Frequency	Percent	Test Percent
Blue	9	16.07	24.00
Brown	11	19.64	13.00
Green	5	8.93	16.00
Orange	2	3.57	20.00
Red	9	16.07	13.00
Yellow	20	35.71	14.00

Chi-Square Test for Specified Proportions	
Chi-Square	31.9418
DF	5
Pr > ChiSq	<.0001



Sample Size = 56

chi-sq GOF Freq statistics

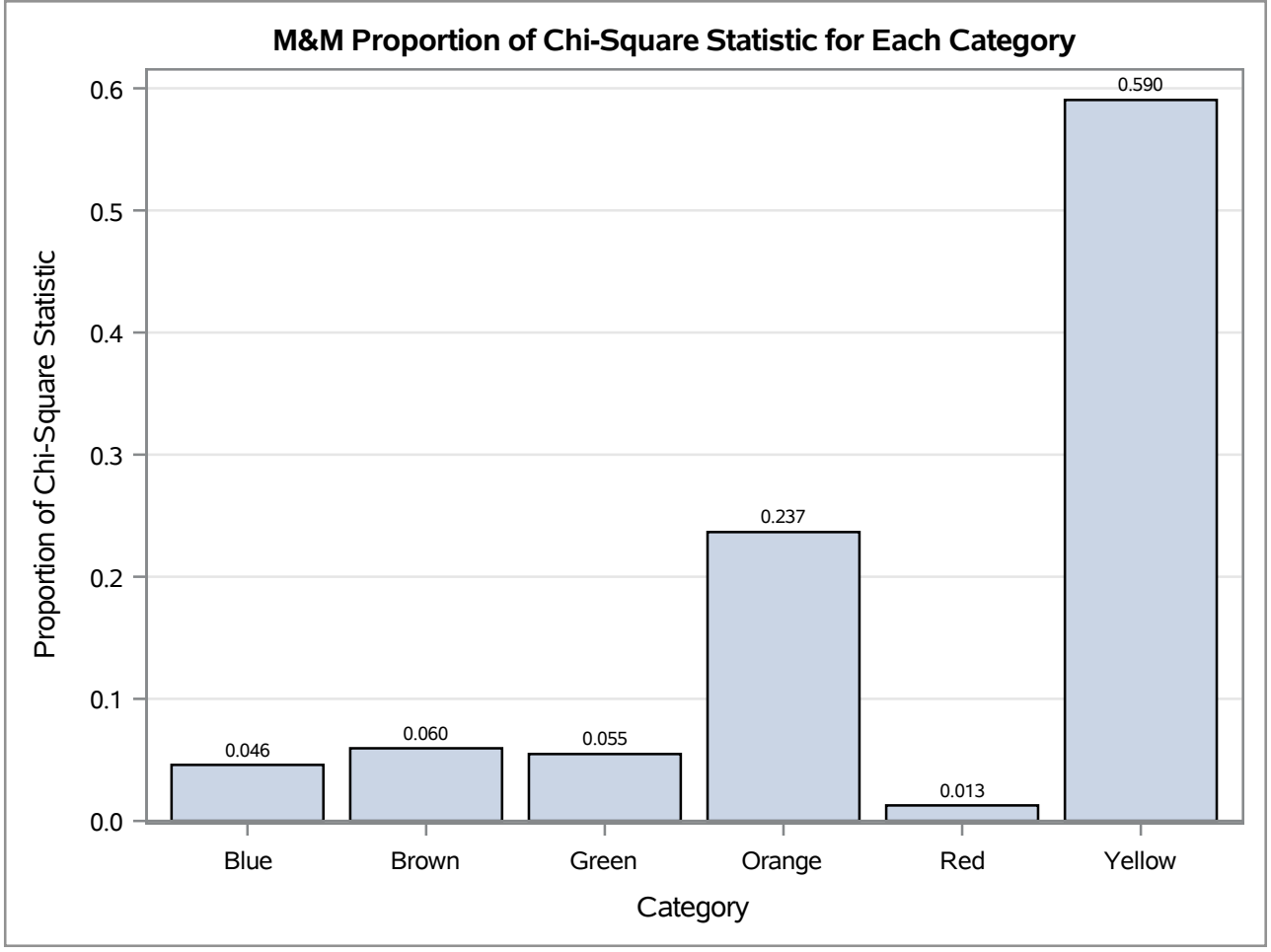
Obs	N	_PCHI_	DF_PCHI	P_PCHI
1	56	31.9418	5	.000006101

M&M chi-sq GOF Debug-All attributes

Obs	Table	F_Category	Category	Frequency	Percent	TestPercent	ExpectedFreq	Deviation	ChiSqContrib	ChiSqPropor
1	Table Category	Blue	Blue	9	16.07	24.00	13.44	-4.44	1.4668	0.046
2	Table Category	Brown	Brown	11	19.64	13.00	7.28	3.72	1.9009	0.060
3	Table Category	Green	Green	5	8.93	16.00	8.96	-3.96	1.7502	0.055
4	Table Category	Orange	Orange	2	3.57	20.00	11.20	-9.20	7.5571	0.237
5	Table Category	Red	Red	9	16.07	13.00	7.28	1.72	0.4064	0.013
6	Table Category	Yellow	Yellow	20	35.71	14.00	7.84	12.16	18.8604	0.590

M&M chi-sq GOF Debug

Obs	F_Category	Category	Frequency	TestPercent	ExpectedFreq	Deviation	ChiSqContrib	ChiSqPropor
1	Blue	Blue	9	24.00	13.44	-4.44	1.4668	0.046
2	Brown	Brown	11	13.00	7.28	3.72	1.9009	0.060
3	Green	Green	5	16.00	8.96	-3.96	1.7502	0.055
4	Orange	Orange	2	20.00	11.20	-9.20	7.5571	0.237
5	Red	Red	9	13.00	7.28	1.72	0.4064	0.013
6	Yellow	Yellow	20	14.00	7.84	12.16	18.8604	0.590


M&M Proportion of Chi-Square Statistic for Each Category
Proportion of Chi-Square Statistic
0.6
0.5
0.4
0.3
0.2
0.1
0.0
0.046
0.060
0.055
0.237
0.013
0.590
Blue
Brown
Green
Orange
Red
Yellow
Category