

Viewing a crosstab


12/03/2024 2:15 pm EST

You've created your first crosstab! Now, let's view it. We will use a very simple crosstab as an example.

Across the top are a series of checkboxes for these elements:

- row percentage
- column percentage
- percentage from expected
- row total
- column total
- count


Removing the check for any of the listed elements will remove the display of that item. You might want to do so to simplify the appearance of the crosstab. For instance, here's one with every box checked:

Row % Col % % from Expected Row Total Column Total Count 

What is your favorite color? All respondents in my account weighted according to U.S. Adults								
Please indicate your gender All respondents in my account	Yellow	Green	Blue	Red	Orange	Black	Purple	Row Total
Male	(-29%) 62	292	(+18%) 981	367	101	168	(-58%) 107	2,079
Row %	3%	14%	47%	18%	5%	8%	5%	
Column %	34%	48%	57%	50%	57%	50%	20%	49%
Female	(+28%) 119	315	(-17%) 736	361	77	169	(+55%) 423	2,199
Row %	5%	14%	33%	16%	4%	8%	19%	
Column %	66%	52%	43%	50%	43%	50%	80%	51%
Column Total	181	607	1,716	728	179	337	530	4,278
Row %	4%	14%	40%	17%	4%	8%	12%	

4,278 Responses. Significance: $X^2_{(df=6)}=242.111$, $p<0.001$, High Strength of Association ($T=0.152$)

Here's the same crosstab with some of the elements removed:

Row % Col % % from Expected Row Total Column Total Count 

What is your favorite color? All respondents in my account weighted according to U.S. Adults							
Please indicate your gender All respondents in my account	Yellow	Green	Blue	Red	Orange	Black	Purple
Male	(-29%) 62	292	(+18%) 981	367	101	168	(-58%) 107
Female	(+28%) 119	315	(-17%) 736	361	77	169	(+55%) 423

4,278 Responses. Significance: $X^2_{(df=6)}=242.111$, $p<0.001$, High Strength of Association ($T=0.152$)

Some items in the crosstab deserve special attention.

Row %
 Col %
 % from Expected
 Row Total
 Column Total
 Count



What is your favorite color?								
All respondents in my account weighted according to U.S. Adults								
Please indicate your gender	Yellow	Green	Blue	Red	Orange	Black	Purple	Row Total
All respondents in my account								
Male	1 (-29%) 62	292	(+18%) 981	367	101	168	(-58%) 107	2,079
Row %	3%	14%	47%	18%	5%	8%	5%	
Column %	34%	48%	57%	50%	57%	50%	20%	49%
Female	(+28%) 119	315	(-17%) 736	361	77	169	(+55%) 423	2,199
Row %	5%	14%	33%	16%	4%	8%	19%	
Column %	66%	52%	43%	50%	43%	50%	80%	51%
Column Total	181	607	1,716	728	179	337	530	4,278
Row %	4%	14%	40%	17%	4%	8%	12%	

4,278 Responses. Significance: $X^2_{(df=6)}=242.111$, $p<0.001$, High Strength of Association ($T=0.152$)

1. The *percentage from expected* shows how far this number is from the value we would expect to see if our variables are independent of each other. It is shown if it is significant. We see above that 29% fewer males chose yellow as their favorite number than we expected.
2. The *p-value* represents the probability that there is no relationship between how respondents have answered each question. The lower the p-value, the more confident we can be that such a relationship exists. The p-value in this crosstab is 0.001, so we can be reasonably confident that a relationship exists.
3. The *T coefficient* is Tschuprow's T, a measure of the strength of the relationship between the variables in the crosstab. The higher the T coefficient, the stronger the association.

[This article](#) goes into more detail about each of these items.