

CORRELATIONS

/VARIABLES=Accuracy Step Momentum epoch

/PRINT=TWOTAIL NOSIG

/MISSING=PAIRWISE.

## Correlations

### Notes

Output Created		23-DEC-2019 21:50:44
Comments		
Input	Data	/home/shaun/dataset1.csv
	Active Dataset	DataSet1
	Filter	<none>
	Weight	<none>
	Split File	<none>
	N of Rows in Working Data File	408
Missing Value Handling	Definition of Missing	User-defined missing values are treated as missing.
	Cases Used	Statistics for each pair of variables are based on all the cases with valid data for that pair.
Syntax		CORRELATIONS  /VARIABLES=Accuracy Step Momentum epoch /PRINT=TWOTAIL NOSIG /MISSING=PAIRWISE.
Resources	Processor Time	00:00:00.00
	Elapsed Time	00:00:00.00

[DataSet1]

## Correlations

		Accuracy	Step	Momentum	epoch
Accuracy	Pearson Correlation	1	-.764**	-.209**	-.025
	Sig. (2-tailed)		.000	.000	.612
	N	408	408	408	408
Step	Pearson Correlation	-.764**	1	-.182**	-.019
	Sig. (2-tailed)	.000		.000	.701
	N	408	408	408	408
Momentum	Pearson Correlation	-.209**	-.182**	1	-.004
	Sig. (2-tailed)	.000	.000		.941
	N	408	408	408	408
epoch	Pearson Correlation	-.025	-.019	-.004	1
	Sig. (2-tailed)	.612	.701	.941	
	N	408	408	408	408

\*\* . Correlation is significant at the 0.01 level (2-tailed).

\* Visual Binning.

\*Accuracy.

```
RECODE Accuracy (MISSING=COPY) (LO THRU 0.0982=1) (LO THRU 0.96455=2) (LO THRU 0.98545=3) (LO THRU
```

```
    HI=4) (ELSE=SYSMIS) INTO Accuracy.quarter
```

```
VARIABLE LABELS Accuracy.quarter 'Accuracy (Binned) '.
```

```
FORMATS Accuracy.quarter (F5.0).
```

```
VALUE LABELS Accuracy.quarter1 ' 2 ' 3 ' 4 '.
```

```
VARIABLE LEVEL Accuracy.quarter (ORDINAL).
```

```
EXECUTE.
```

```
CROSSTABS
```

```
  /TABLES=Step Momentum BY Accuracy.quarter
```

```
  /FORMAT=AVALUE TABLES
```

```
  /STATISTICS=CHISQ PHI
```

```
  /CELLS=COUNT EXPECTED ROW COLUMN ASRESID
```

```
  /COUNT ROUND CELL.
```

## Crosstabs

## Notes

Output Created		23-DEC-2019 21:52:18
Comments		
Input	Data	/home/shaun/dataset1.csv
	Active Dataset	DataSet1
	Filter	<none>
	Weight	<none>
	Split File	<none>
	N of Rows in Working Data File	408
Missing Value Handling	Definition of Missing	User-defined missing values are treated as missing.
	Cases Used	Statistics for each table are based on all the cases with valid data in the specified range(s) for all variables in each table.
Syntax		CROSSTABS /TABLES=Step Momentum BY Accuracy.quarter /FORMAT=AVALUE TABLES /STATISTICS=CHISQ PHI /CELLS=COUNT EXPECTED ROW COLUMN ASRESID /COUNT ROUND CELL.
Resources	Processor Time	00:00:00.01
	Elapsed Time	00:00:00.00
	Dimensions Requested	2
	Cells Available	524245

## Case Processing Summary

	Valid		Cases Missing		Total	
	N	Percent	N	Percent	N	Percent
Step * Accuracy (Binned)	408	100.0%	0	0.0%	408	100.0%
Momentum * Accuracy (Binned)	408	100.0%	0	0.0%	408	100.0%

## Step \* Accuracy (Binned)

### Crosstab

			Accuracy (Binned)				
			1	2	3	4	Total
Step	.01	Count	0	7	43	40	90
		Expected Count	24.7	20.3	22.5	22.5	90.0
		% within Step	0.0%	7.8%	47.8%	44.4%	100.0%
		% within Accuracy (Binned)	0.0%	7.6%	42.2%	39.2%	22.1%
		Adjusted Residual	-6.6	-3.8	5.7	4.8	
	.05	Count	15	4	32	39	90
		Expected Count	24.7	20.3	22.5	22.5	90.0
		% within Step	16.7%	4.4%	35.6%	43.3%	100.0%
		% within Accuracy (Binned)	13.4%	4.3%	31.4%	38.2%	22.1%
		Adjusted Residual	-2.6	-4.7	2.6	4.5	
	.10	Count	37	3	27	23	90
		Expected Count	24.7	20.3	22.5	22.5	90.0
		% within Step	41.1%	3.3%	30.0%	25.6%	100.0%
		% within Accuracy (Binned)	33.0%	3.3%	26.5%	22.5%	22.1%
		Adjusted Residual	3.3	-4.9	1.2	.1	
	.50	Count	30	60	0	0	90
		Expected Count	24.7	20.3	22.5	22.5	90.0
		% within Step	33.3%	66.7%	0.0%	0.0%	100.0%
		% within Accuracy (Binned)	26.8%	65.2%	0.0%	0.0%	22.1%
		Adjusted Residual	1.4	11.3	-6.2	-6.2	
	.70	Count	30	18	0	0	48
		Expected Count	13.2	10.8	12.0	12.0	48.0
		% within Step	62.5%	37.5%	0.0%	0.0%	100.0%
		% within Accuracy (Binned)	26.8%	19.6%	0.0%	0.0%	11.8%
		Adjusted Residual	5.8	2.6	-4.3	-4.3	
Total	Count	112	92	102	102	408	
	Expected Count	112.0	92.0	102.0	102.0	408.0	
	% within Step	27.5%	22.5%	25.0%	25.0%	100.0%	
	% within Accuracy (Binned)	100.0%	100.0%	100.0%	100.0%	100.0%	

### Chi-Square Tests

	Value	df	Asymptotic Significance (2-sided)
Pearson Chi-Square	294.535 <sup>a</sup>	12	.000
Likelihood Ratio	362.993	12	.000
Linear-by-Linear Association	147.706	1	.000
N of Valid Cases	408		

a. 0 cells (0.0%) have expected count less than 5. The minimum expected count is 10.82.

### Symmetric Measures

		Value	Approximate Significance
Nominal by Nominal	Phi	.850	.000
	Cramer's V	.491	.000
N of Valid Cases		408	

### Momentum \* Accuracy (Binned)

### Crosstab

			Accuracy (Binned)			
			1	2	3	4
Momentum	.0	Count	15	17	19	24
		Expected Count	20.6	16.9	18.8	18.8
		% within Momentum	20.0%	22.7%	25.3%	32.0%
		% within Accuracy (Binned)	13.4%	18.5%	18.6%	23.5%
		Adjusted Residual	-1.6	.0	.1	1.5
	.1	Count	0	32	16	27
		Expected Count	20.6	16.9	18.8	18.8
		% within Momentum	0.0%	42.7%	21.3%	36.0%
		% within Accuracy (Binned)	0.0%	34.8%	15.7%	26.5%
		Adjusted Residual	-5.9	4.6	-.8	2.4
	.3	Count	15	16	26	18
		Expected Count	20.6	16.9	18.8	18.8
		% within Momentum	20.0%	21.3%	34.7%	24.0%
		% within Accuracy (Binned)	13.4%	17.4%	25.5%	17.6%
		Adjusted Residual	-1.6	-.3	2.1	-.2
	.5	Count	22	7	16	18
		Expected Count	17.3	14.2	15.8	15.8
		% within Momentum	34.9%	11.1%	25.4%	28.6%
		% within Accuracy (Binned)	19.6%	7.6%	15.7%	17.6%
		Adjusted Residual	1.4	-2.4	.1	.7
	.7	Count	30	5	16	9
		Expected Count	16.5	13.5	15.0	15.0
		% within Momentum	50.0%	8.3%	26.7%	15.0%
		% within Accuracy (Binned)	26.8%	5.4%	15.7%	8.8%
		Adjusted Residual	4.2	-2.9	.3	-1.9
	.9	Count	30	15	9	6
		Expected Count	16.5	13.5	15.0	15.0

### Crosstab

			Total
Momentum	.0	Count	75
		Expected Count	75.0
		% within Momentum	100.0%
		% within Accuracy (Binned)	18.4%
		Adjusted Residual	
	.1	Count	75
		Expected Count	75.0
		% within Momentum	100.0%
		% within Accuracy (Binned)	18.4%
		Adjusted Residual	
	.3	Count	75
		Expected Count	75.0
		% within Momentum	100.0%
		% within Accuracy (Binned)	18.4%
		Adjusted Residual	
	.5	Count	63
		Expected Count	63.0
		% within Momentum	100.0%
		% within Accuracy (Binned)	15.4%
		Adjusted Residual	
	.7	Count	60
		Expected Count	60.0
		% within Momentum	100.0%
		% within Accuracy (Binned)	14.7%
		Adjusted Residual	
	.9	Count	60
		Expected Count	60.0

### Crosstab

		Accuracy (Binned)			
		1	2	3	4
	% within Momentum	50.0%	25.0%	15.0%	10.0%
	% within Accuracy (Binned)	26.8%	16.3%	8.8%	5.9%
	Adjusted Residual	4.2	.5	-1.9	-2.9
Total	Count	112	92	102	102
	Expected Count	112.0	92.0	102.0	102.0
	% within Momentum	27.5%	22.5%	25.0%	25.0%
	% within Accuracy (Binned)	100.0%	100.0%	100.0%	100.0%

### Crosstab

		Total
	% within Momentum	100.0%
	% within Accuracy (Binned)	14.7%
	Adjusted Residual	
Total	Count	408
	Expected Count	408.0
	% within Momentum	100.0%
	% within Accuracy (Binned)	100.0%

### Chi-Square Tests

	Value	df	Asymptotic Significance (2-sided)
Pearson Chi-Square	88.765 <sup>a</sup>	15	.000
Likelihood Ratio	106.483	15	.000
Linear-by-Linear Association	36.921	1	.000
N of Valid Cases	408		

a. 0 cells (0.0%) have expected count less than 5. The minimum expected count is 13.53.



### Symmetric Measures

		Value	Approximate Significance
Nominal by Nominal	Phi	.466	.000
	Cramer's V	.269	.000
N of Valid Cases		408	

## Correlations

Control Variables			Step	Momentum
Accuracy (Binned) & Accuracy & epoch	Step	Correlation	1.000	-.505
		Significance (2-tailed)	.	.000
		df	0	403
	Momentum	Correlation	-.505	1.000
		Significance (2-tailed)	.000	.
		df	403	0