

Type Hints Feature Assists in Detecting Bugs

Case Processing Summary

		Cases			
	Type Hints Feature Assists in Detecting Bugs	Valid		Missing	
		N	Percent	N	Percent
Grdaes With Type Hints	Strongly Disagree	6	100.0%	0	0.0%
	Disagree	6	100.0%	0	0.0%
	Neutral	29	100.0%	0	0.0%
	Agree	55	100.0%	0	0.0%
	Strongly Agree	16	100.0%	0	0.0%

Case Processing Summary

		Cases	
	Type Hints Feature Assists in Detecting Bugs	Total	
		N	Percent
Grdaes With Type Hints	Strongly Disagree	6	100.0%
	Disagree	6	100.0%
	Neutral	29	100.0%
	Agree	55	100.0%
	Strongly Agree	16	100.0%

Descriptives

Type Hints Feature Assists in Detecting Bugs		Statistic	
Grdaes With Type Hints	Strongly Disagree	Mean	6.83
		95% Confidence Interval for Mean	Lower Bound
			Upper Bound
		5% Trimmed Mean	6.59
		Median	6.00
		Variance	47.767
		Std. Deviation	6.911
		Minimum	0
		Maximum	18
		Range	18
		Interquartile Range	13
		Skewness	.746
		Kurtosis	-.046
	Disagree	Mean	4.50
		95% Confidence Interval for Mean	Lower Bound
			Upper Bound
		5% Trimmed Mean	4.39
		Median	2.50
		Variance	22.700
		Std. Deviation	4.764
		Minimum	0
		Maximum	11
		Range	11
		Interquartile Range	10
		Skewness	.799
		Kurtosis	-1.761
	Neutral	Mean	2.62
		95% Confidence Interval for Mean	Lower Bound
			Upper Bound
		5% Trimmed Mean	2.58
		Median	2.00
		Variance	3.744
		Std. Deviation	1.935
		Minimum	0
		Maximum	6
		Range	6
		Interquartile Range	3
		Skewness	.550
		Kurtosis	-.864

Descriptives

Type Hints Feature Assists in Detecting Bugs		Std. Error	
Grdaes With Type Hints	Strongly Disagree	Mean	2.822
		95% Confidence Interval for Mean	Lower Bound
			Upper Bound
		5% Trimmed Mean	
		Median	
		Variance	
		Std. Deviation	
		Minimum	
		Maximum	
		Range	
		Interquartile Range	
		Skewness	.845
		Kurtosis	1.741
	Disagree	Mean	1.945
		95% Confidence Interval for Mean	Lower Bound
			Upper Bound
		5% Trimmed Mean	
		Median	
		Variance	
		Std. Deviation	
		Minimum	
		Maximum	
		Range	
		Interquartile Range	
		Skewness	.845
		Kurtosis	1.741
	Neutral	Mean	.359
		95% Confidence Interval for Mean	Lower Bound
			Upper Bound
		5% Trimmed Mean	
		Median	
		Variance	
		Std. Deviation	
		Minimum	
		Maximum	
		Range	
		Interquartile Range	
		Skewness	.434
		Kurtosis	.845

Descriptives

Type Hints Feature Assists in Detecting Bugs			Statistic	
Agree	Mean		7.07	
	95% Confidence Interval for Mean	Lower Bound	5.77	
		Upper Bound	8.37	
	5% Trimmed Mean		6.89	
	Median		6.00	
	Variance		23.143	
	Std. Deviation		4.811	
	Minimum		1	
	Maximum		18	
	Range		17	
	Interquartile Range		9	
	Skewness		.399	
	Kurtosis		-.999	
	Strongly Agree	Mean		9.06
		95% Confidence Interval for Mean	Lower Bound	5.92
Upper Bound			12.20	
5% Trimmed Mean		9.12		
Median		8.50		
Variance		34.729		
Std. Deviation		5.893		
Minimum		1		
Maximum		16		
Range		15		
Interquartile Range		13		
Skewness		-.014		
Kurtosis		-1.779		

Descriptives

Type Hints Feature Assists in Detecting Bugs			Std. Error
Agree	Mean		.649
	95% Confidence Interval for Mean	Lower Bound	
		Upper Bound	
	5% Trimmed Mean		
	Median		
	Variance		
	Std. Deviation		
	Minimum		
	Maximum		
	Range		
	Interquartile Range		
	Skewness		.322
	Kurtosis		.634
Strongly Agree	Mean		1.473
	95% Confidence Interval for Mean	Lower Bound	
		Upper Bound	
	5% Trimmed Mean		
	Median		
	Variance		
	Std. Deviation		
	Minimum		
	Maximum		
	Range		
	Interquartile Range		
	Skewness		.564
	Kurtosis		1.091

Extreme Values^a

	Type Hints Feature Assists in Detecting Bugs			Case Number	Value
Grdaes With Type Hints	Strongly Disagree	Highest	1	26	18
			2	63	11
			3	24	7
		Lowest	1	29	0
			2	14	0
			3	12	5
	Disagree	Highest	1	38	11
			2	95	10
			3	83	3
		Lowest	1	56	0
			2	48	1
			3	64	2
	Neutral	Highest	1	9	6
			2	11	6
			3	51	6
			4	98	6
			5	44	5 ^b
		Lowest	1	75	0
			2	46	0
			3	45	0
			4	107	1
			5	84	1 ^c
	Agree	Highest	1	30	18
			2	4	16
			3	5	15
			4	80	15
			5	53	14 ^d
		Lowest	1	112	1
			2	105	1
			3	65	1
			4	42	1
			5	40	1 ^c
	Strongly Agree	Highest	1	3	16
			2	31	16
			3	33	16
			4	49	16
			5	16	15
		Lowest	1	68	1
			2	1	1

Extreme Values^a

Type Hints Feature Assists in Detecting Bugs	Case Number	Value
3	47	3
4	27	3
5	103	4

- a. The requested number of extreme values exceeds the number of data points. A smaller number of extremes is displayed.
- b. Only a partial list of cases with the value 5 are shown in the table of upper extremes.
- c. Only a partial list of cases with the value 1 are shown in the table of lower extremes.
- d. Only a partial list of cases with the value 14 are shown in the table of upper extremes.

Tests of Normality

	Type Hints Feature Assists in Detecting Bugs	Kolmogorov-Smirnov ^a			Shapiro-... Statistic
		Statistic	df	Sig.	
Grdaes With Type Hints	Strongly Disagree	.172	6	.200*	.922
	Disagree	.290	6	.125	.827
	Neutral	.212	29	.002	.898
	Agree	.121	55	.043	.930
	Strongly Agree	.174	16	.200*	.865

Tests of Normality

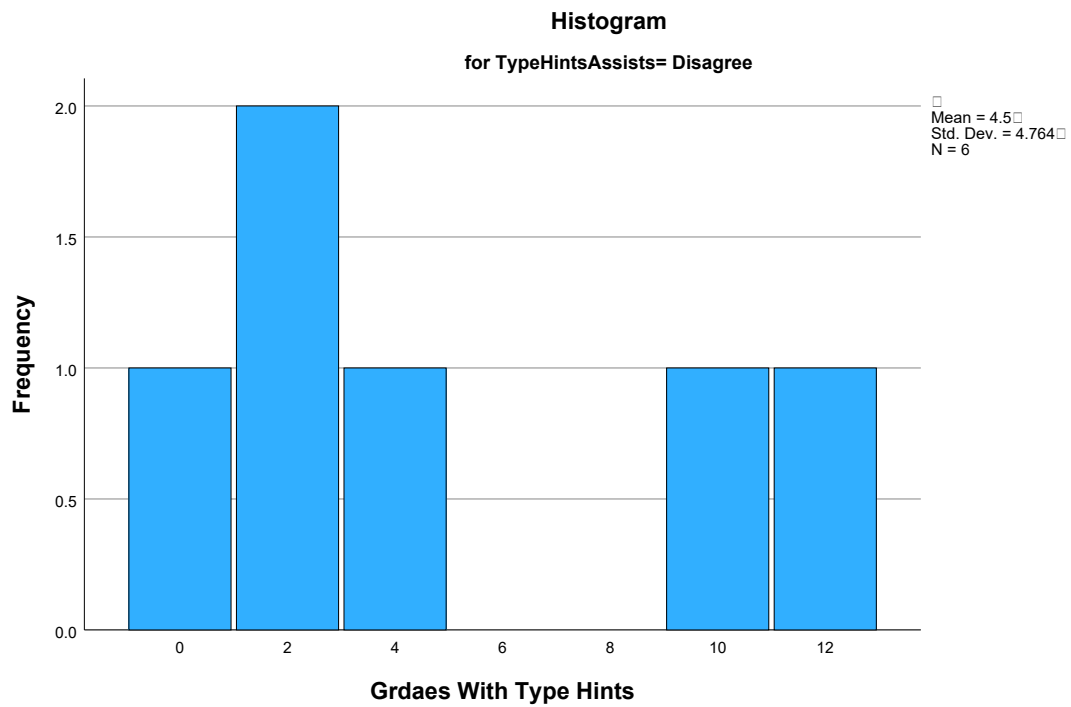
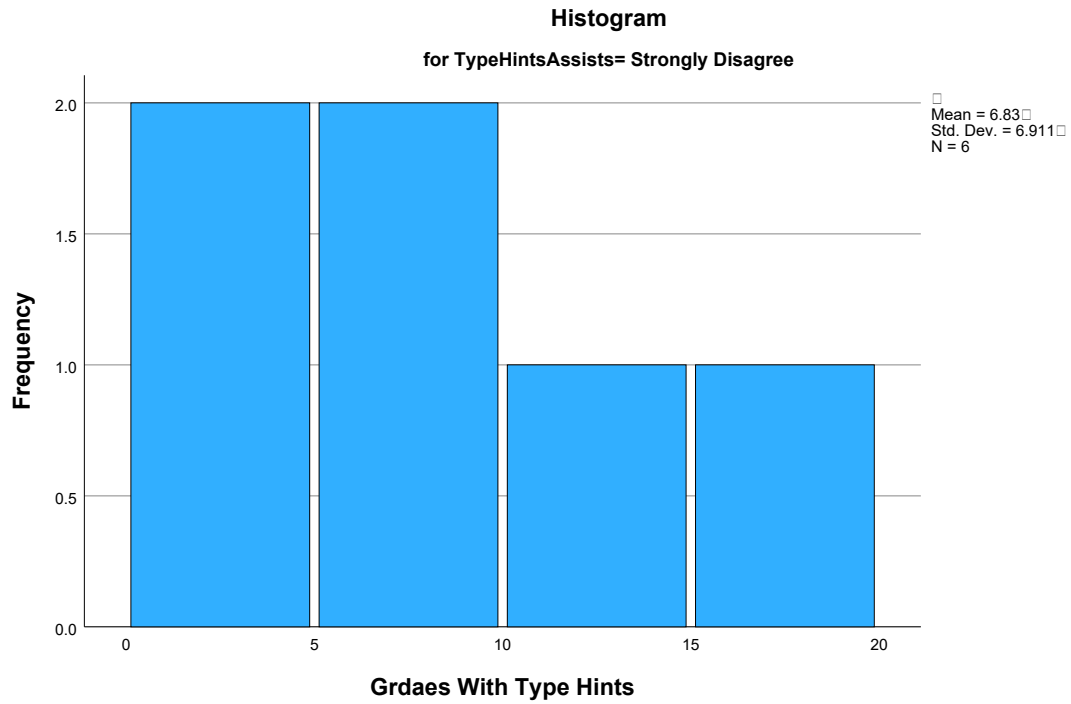
	Type Hints Feature Assists in Detecting Bugs	Shapiro-Wilk	
		df	Sig.
Grdaes With Type Hints	Strongly Disagree	6	.519
	Disagree	6	.101
	Neutral	29	.009
	Agree	55	.003
	Strongly Agree	16	.023

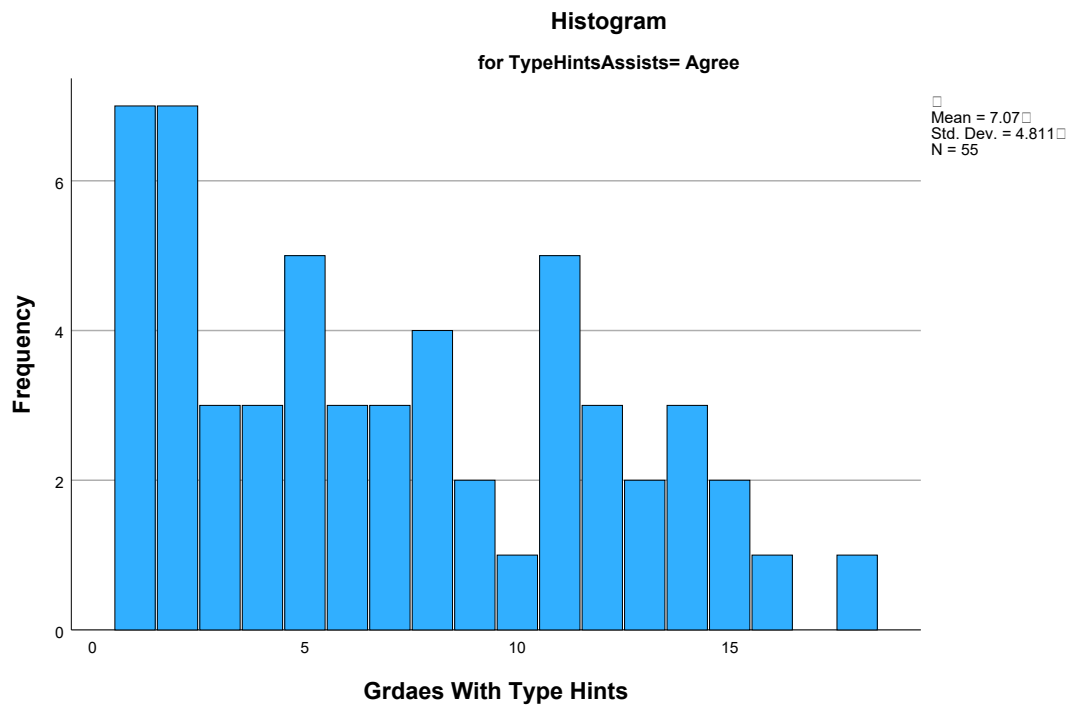
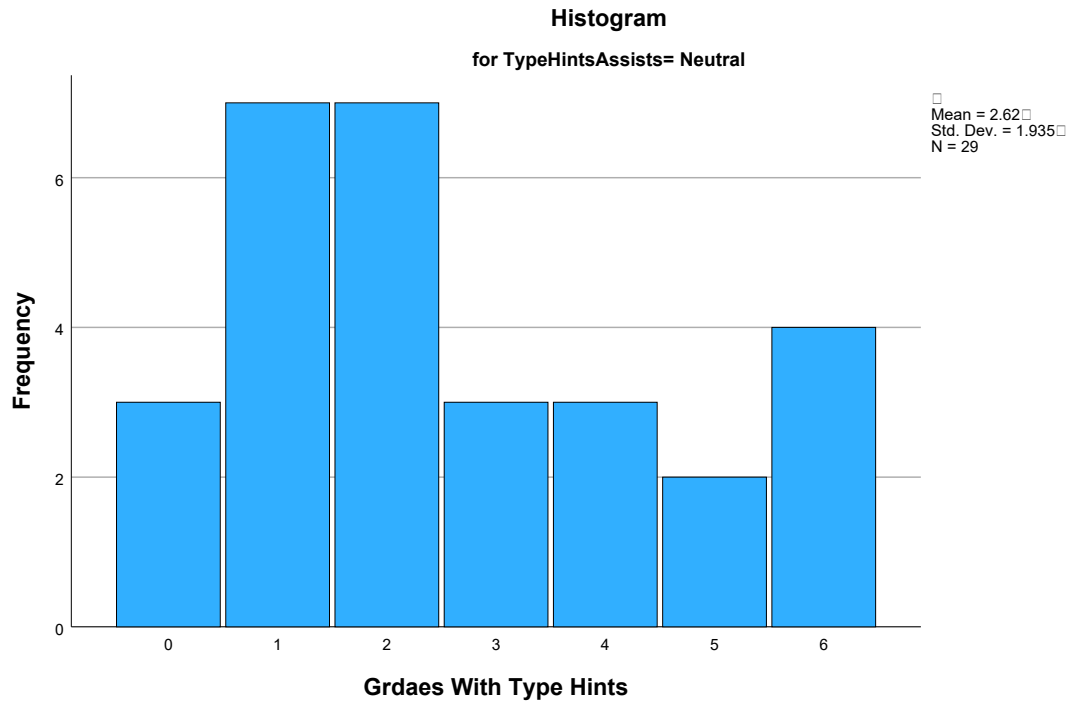
*. This is a lower bound of the true significance.

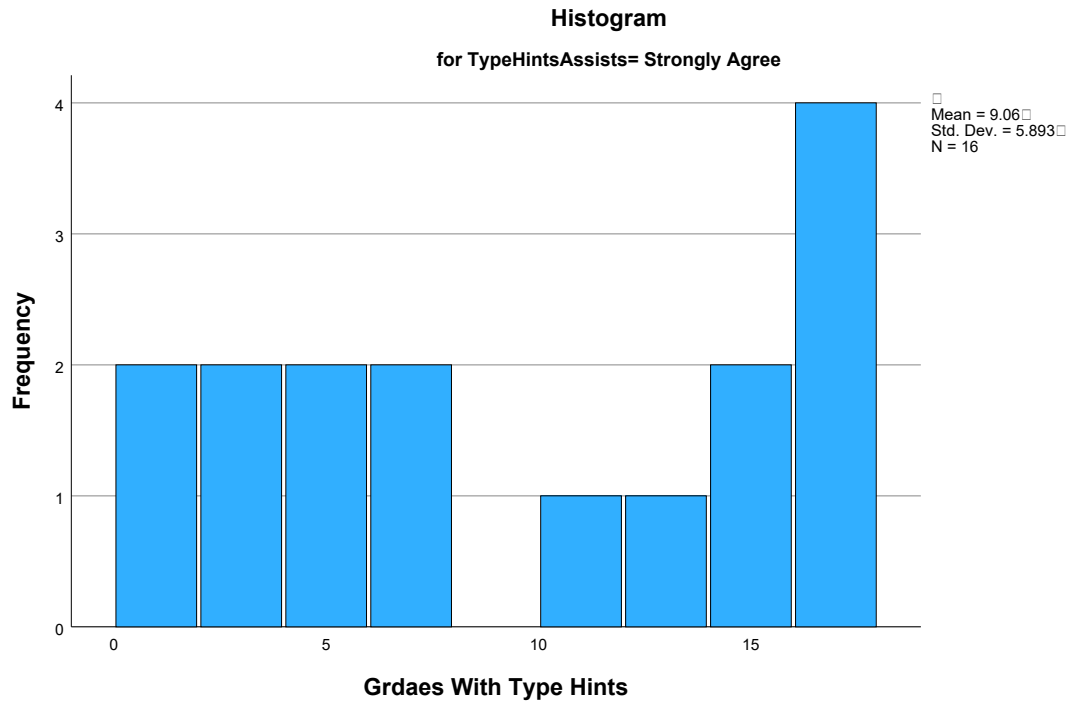
a. Lilliefors Significance Correction

Grdaes With Type Hints

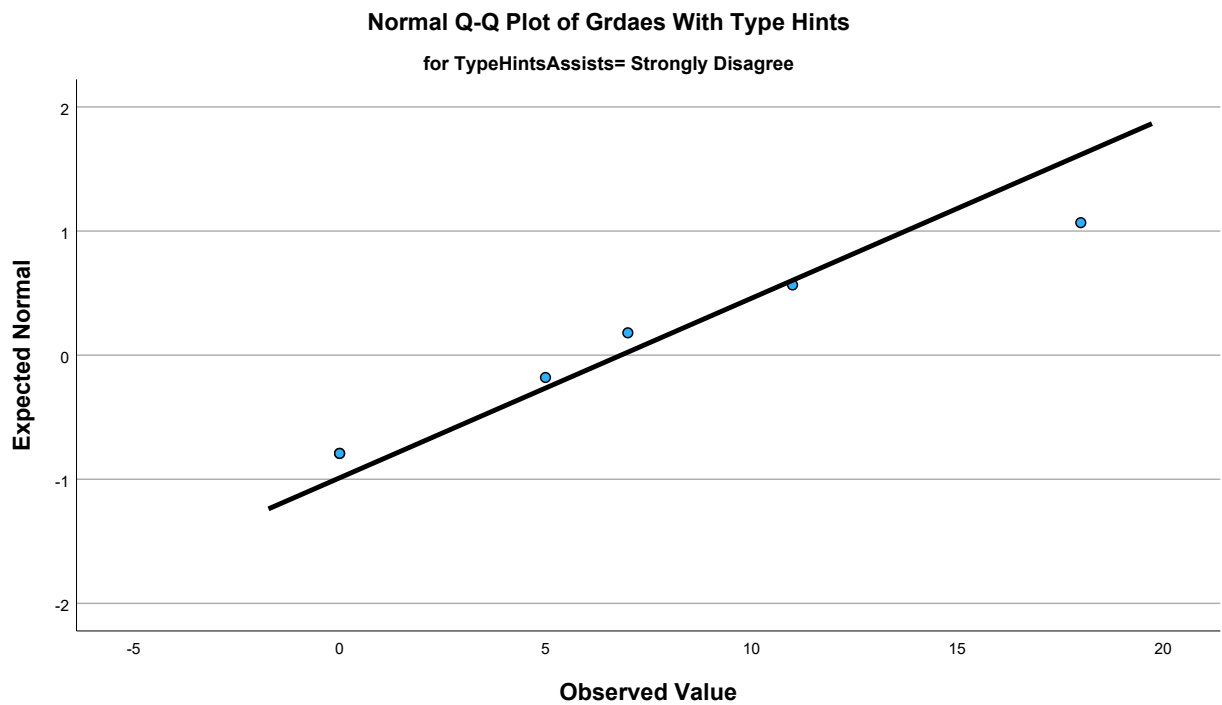
Histograms

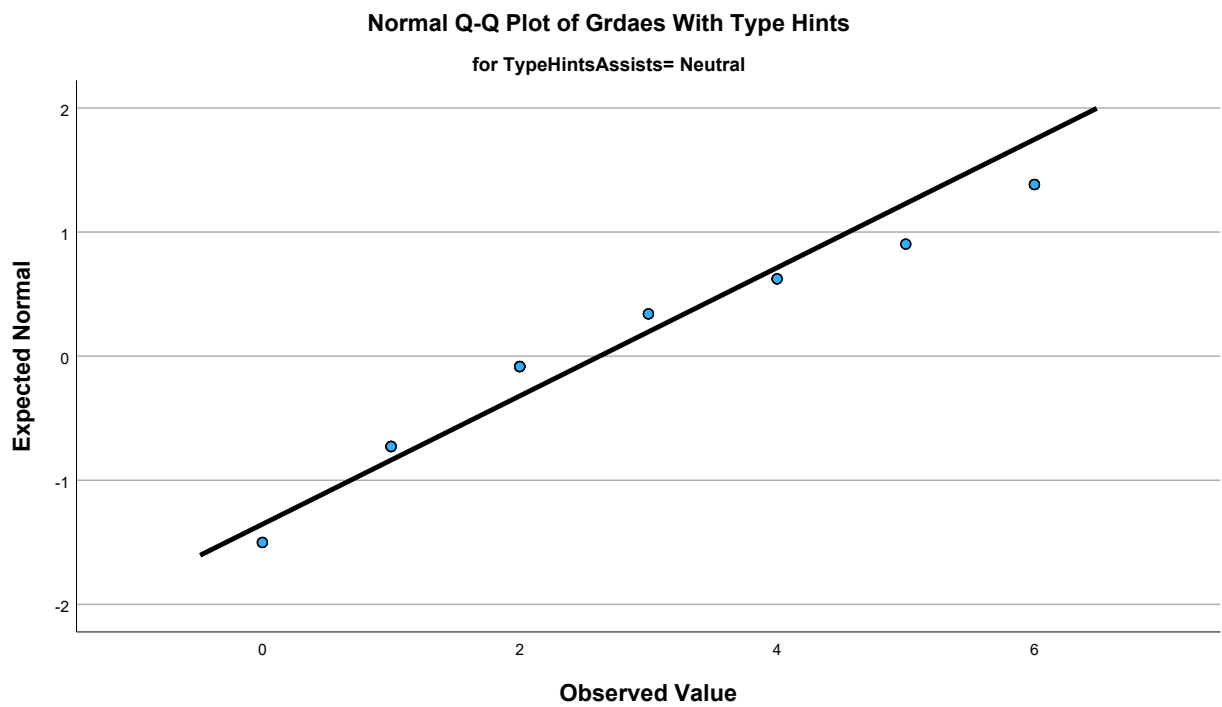
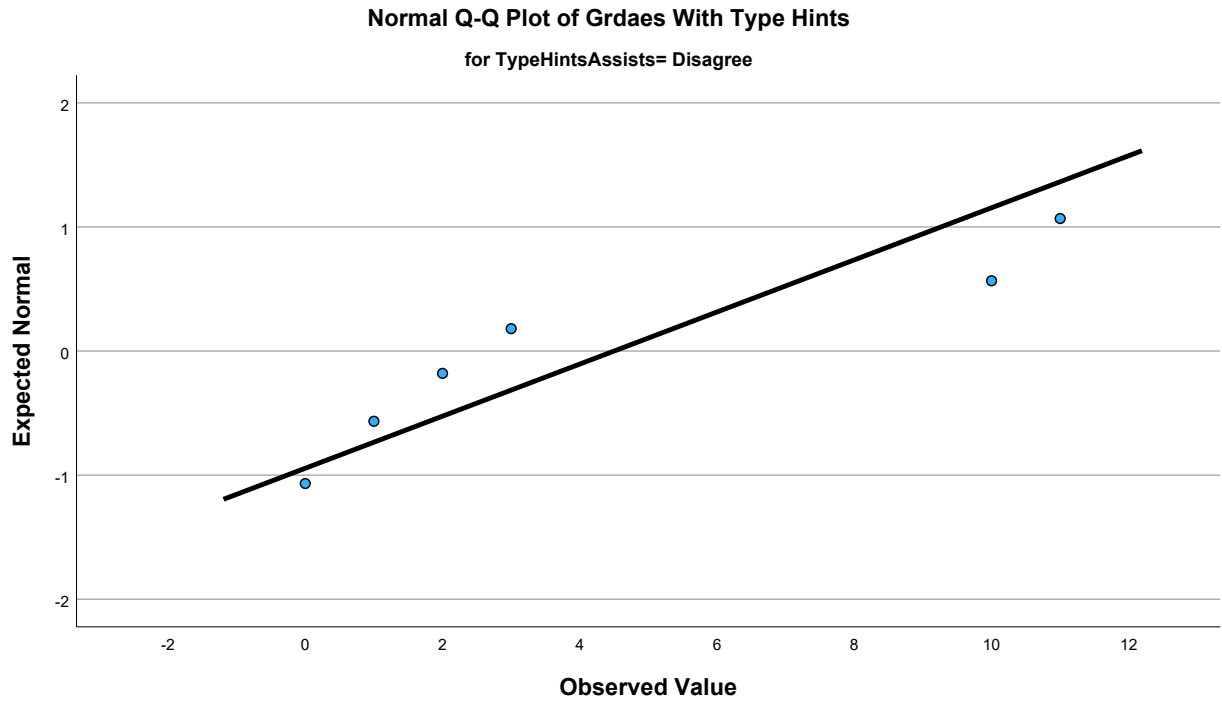


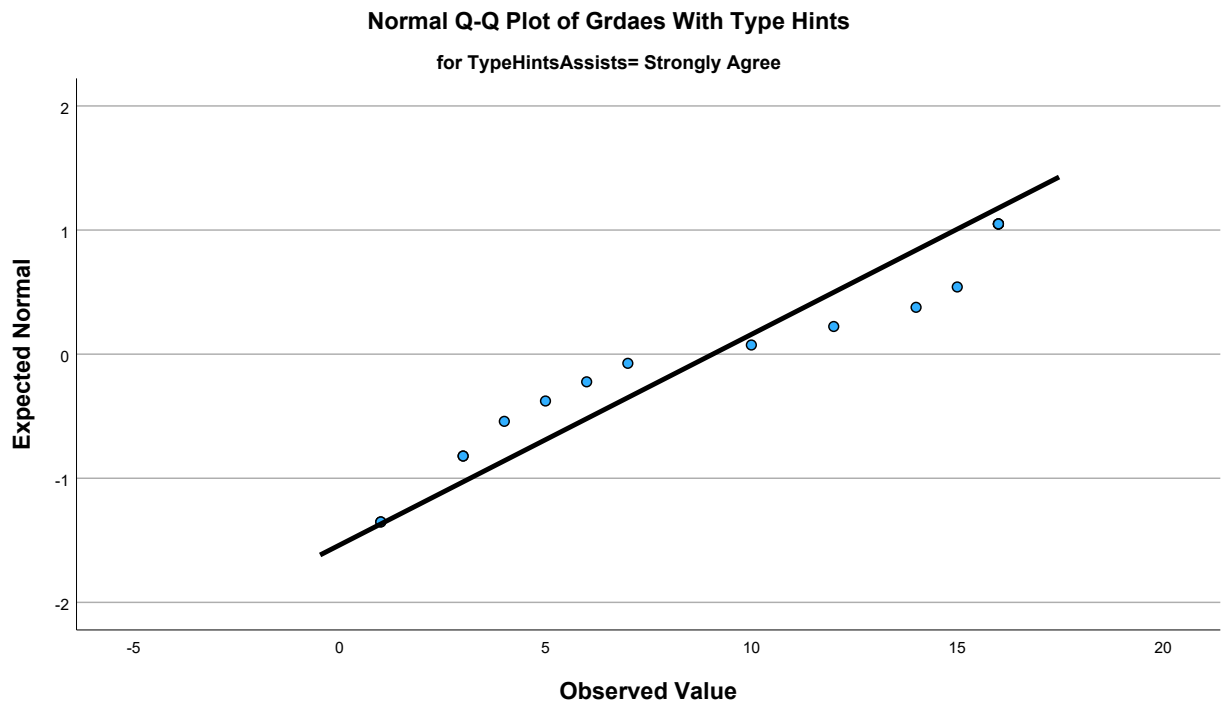
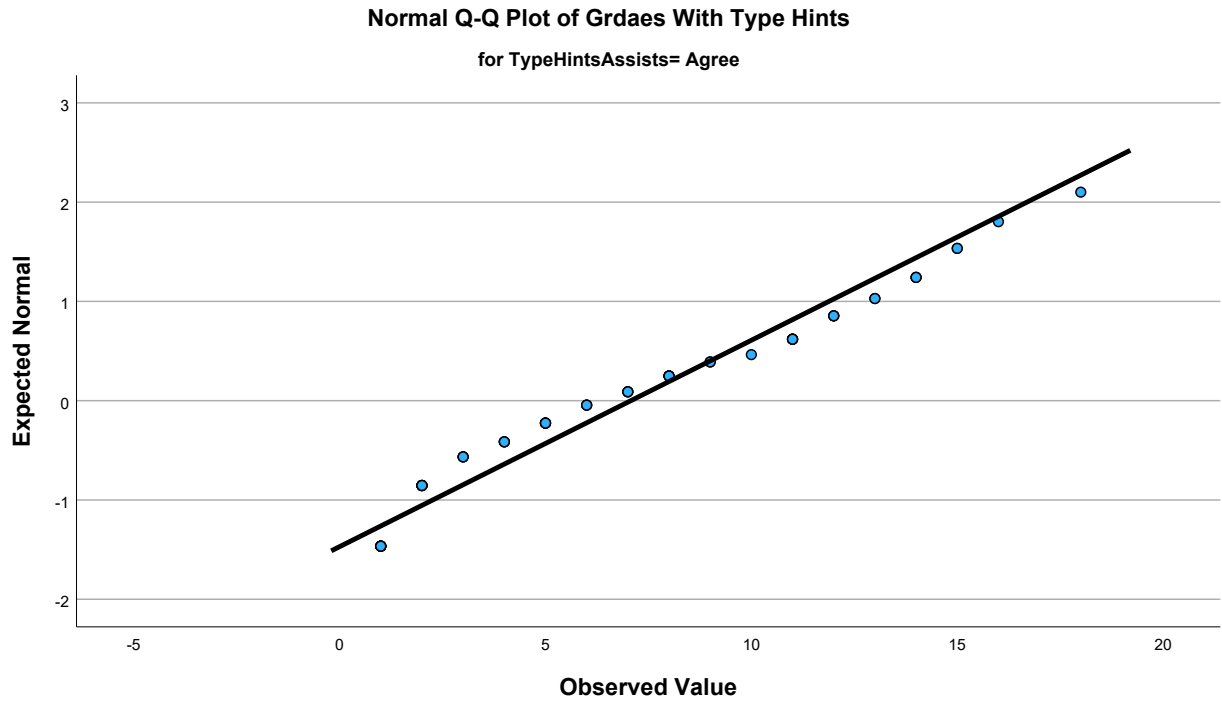




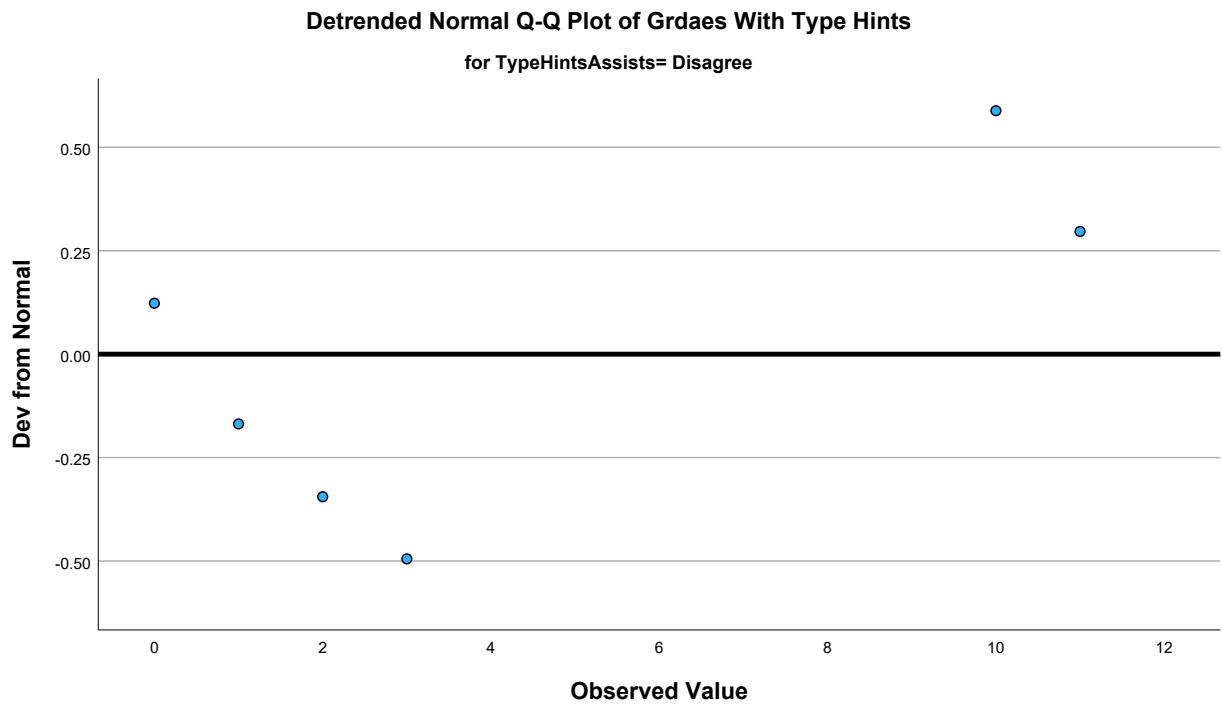
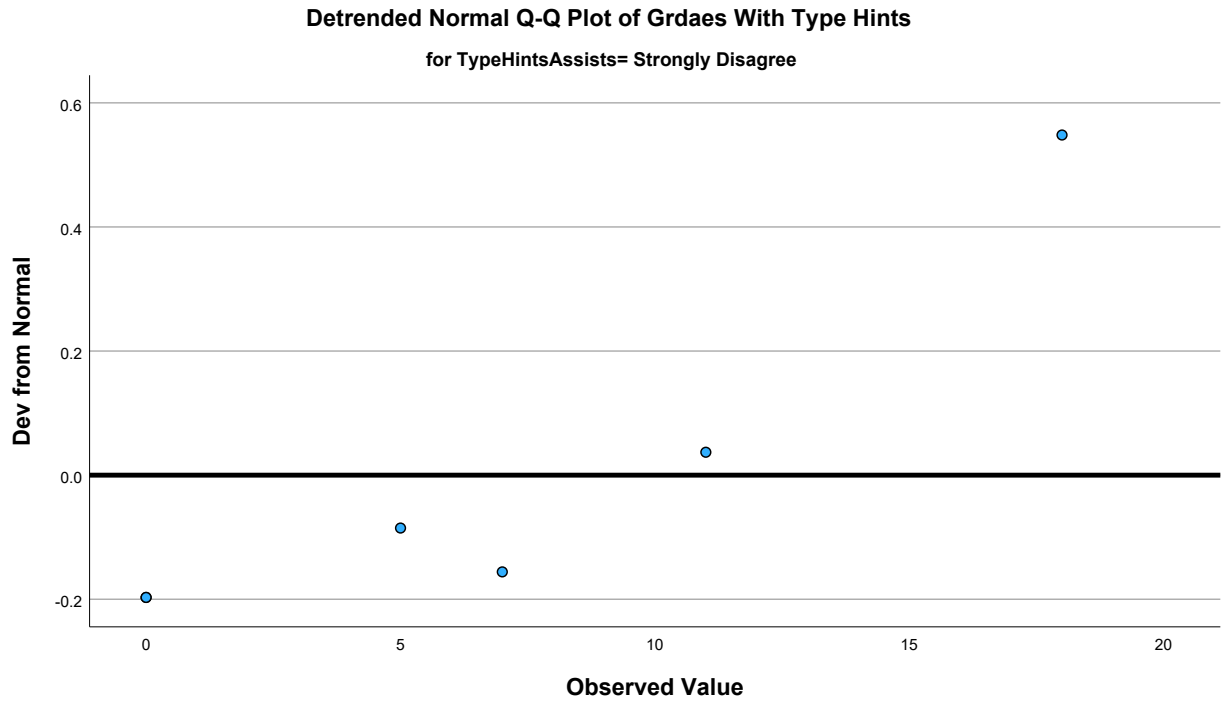
Normal Q-Q Plots

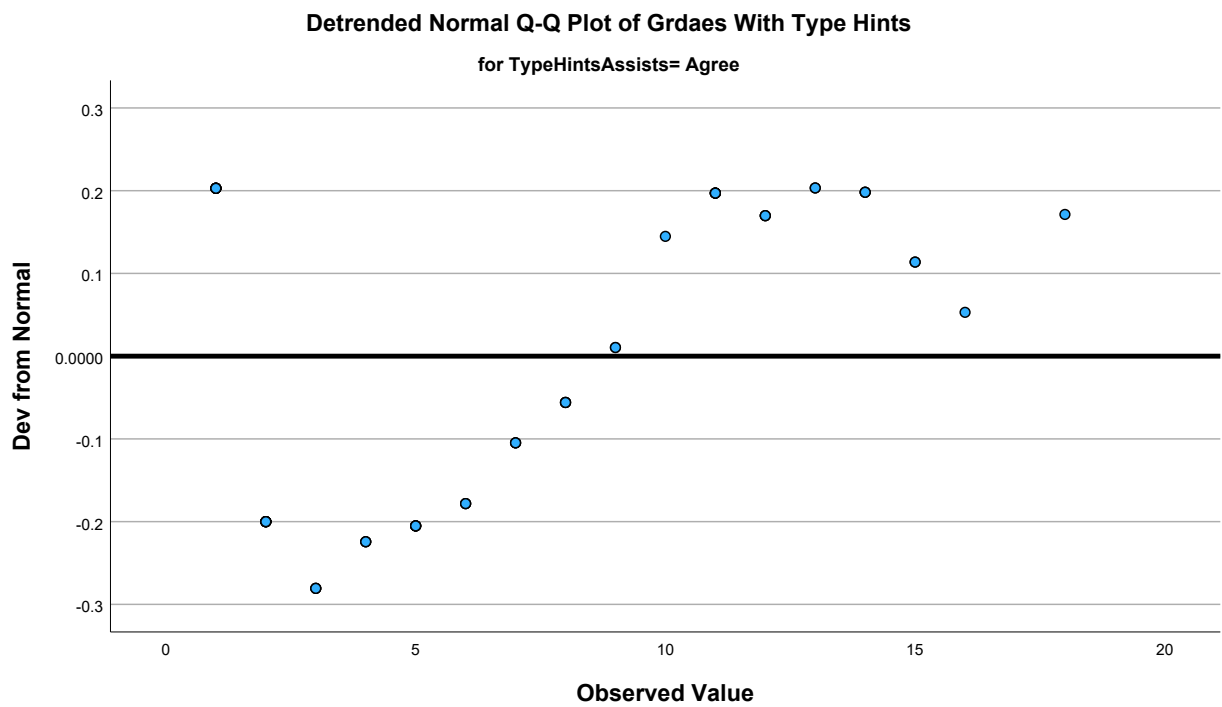
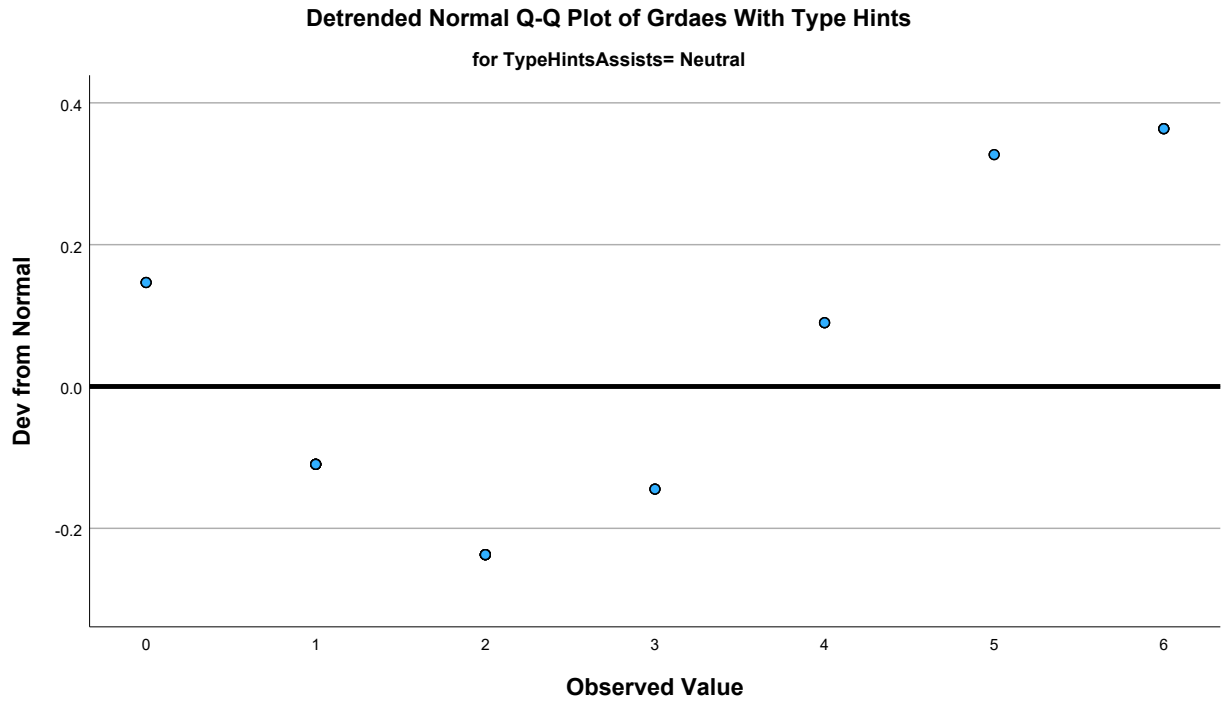


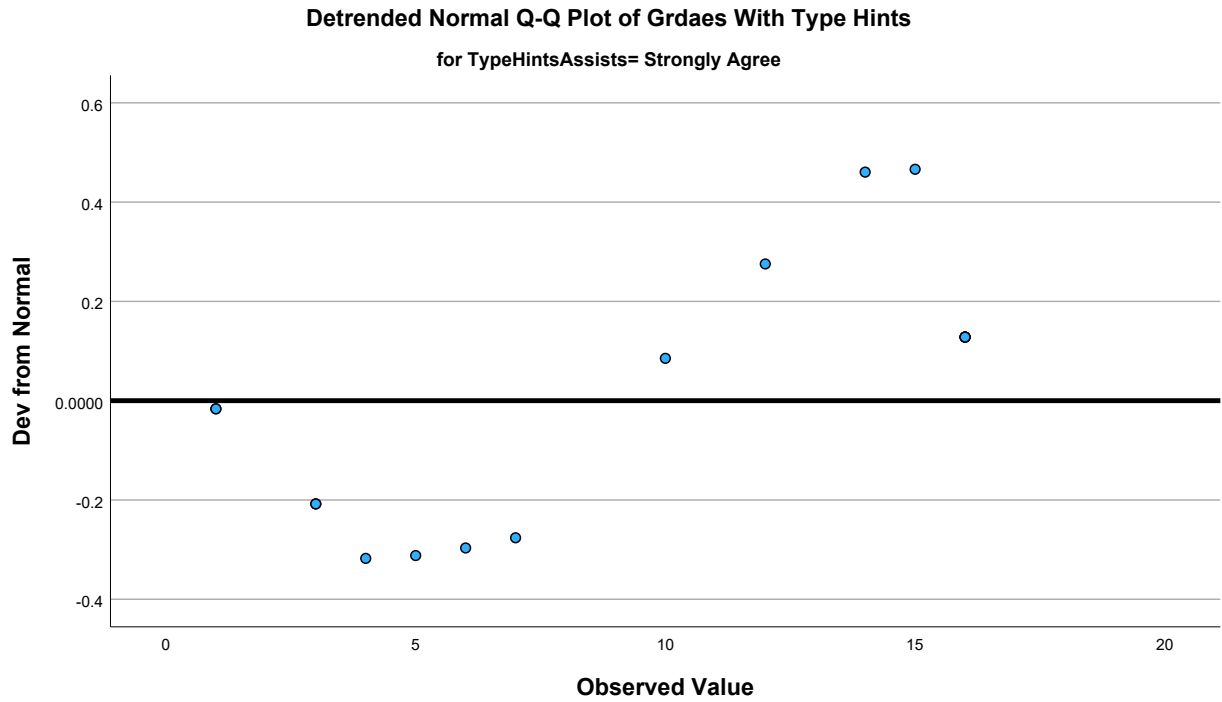




Detrended Normal Q-Q Plots







Boxplots

