

```

GET DATA
  /TYPE=XLSX
  /FILE='Z:\Desktop\lab_crowd_speech_quality.xlsx'
  /SHEET=name 'crowd_vs_lab'
  /CELLRANGE=FULL
  /READNAMES=ON
  /DATATYPEMIN PERCENTAGE=95.0
  /HIDDEN IGNORE=YES.
EXECUTE.
DATASET NAME DataSet4 WINDOW=FRONT.
DATASET ACTIVATE DataSet4.
DATASET CLOSE DataSet3.
EXAMINE VARIABLES=Quality BY Environment
  /PLOT BOXPLOT HISTOGRAM NPLOT
  /COMPARE GROUPS
  /STATISTICS DESCRIPTIVES EXTREME
  /CINTERVAL 95
  /MISSING LISTWISE
  /NOTOTAL.

```

Explore

Environment

Case Processing Summary

		Valid		Cases Missing		Total	
Environment		N	Percent	N	Percent	N	Percent
Quality	0	213	100,0%	0	0,0%	213	100,0%
	1	192	100,0%	0	0,0%	192	100,0%

Descriptives

Environment			Statistic	Std. Error
Quality	0	Mean	3,12	,059
		95% Confidence Interval for Mean	Lower Bound	3,00
			Upper Bound	3,23
		5% Trimmed Mean	3,10	
		Median	3,00	
		Variance	,736	
		Std. Deviation	,858	
		Minimum	1	
		Maximum	5	
		Range	4	
		Interquartile Range	1	
		Skewness	,043	,167
		Kurtosis	-,040	,332
	1	Mean	2,83	,060
		95% Confidence Interval for Mean	Lower Bound	2,71
			Upper Bound	2,95
		5% Trimmed Mean	2,86	
		Median	3,00	
		Variance	,688	
		Std. Deviation	,829	
		Minimum	1	
		Maximum	4	
		Range	3	
		Interquartile Range	1	
		Skewness	-,281	,175
		Kurtosis	-,480	,349

Extreme Values

Environment				Case Number	Value
Quality	0	Highest	1	14	5
			2	65	5
			3	67	5
			4	92	5
			5	104	5 ^a
		Lowest	1	211	1
			2	209	1
			3	208	1
			4	206	1
			5	198	1
	1	Highest	1	222	4
			2	235	4
			3	236	4
			4	247	4
			5	248	4 ^b
		Lowest	1	405	1
			2	404	1
			3	395	1
			4	381	1
			5	340	1 ^c

a. Only a partial list of cases with the value 5 are shown in the table of upper extremes.

b. Only a partial list of cases with the value 4 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.

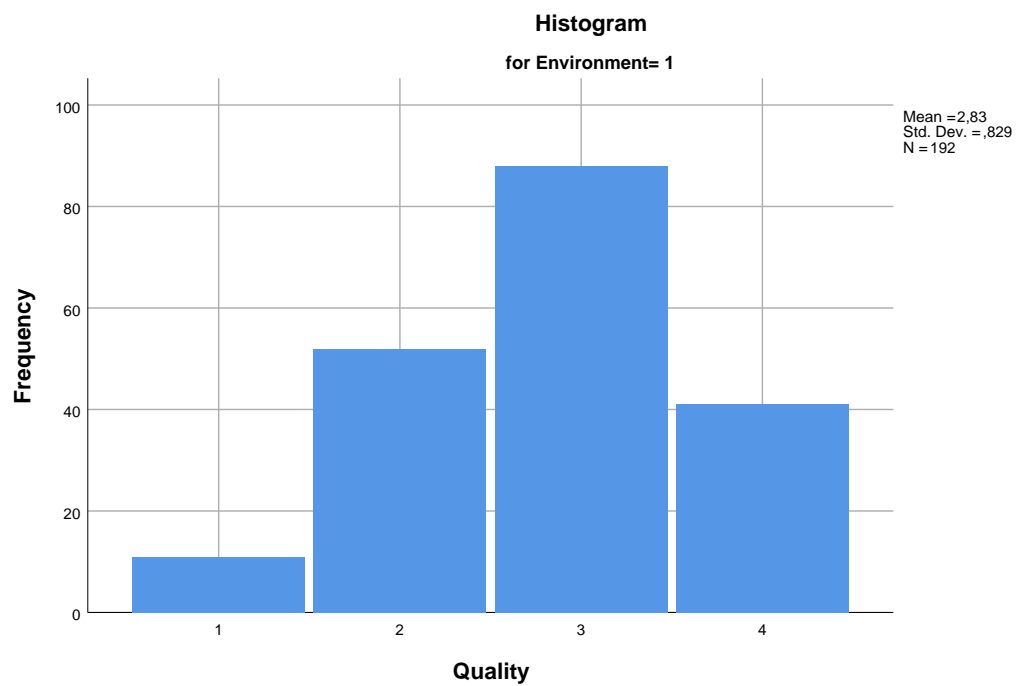
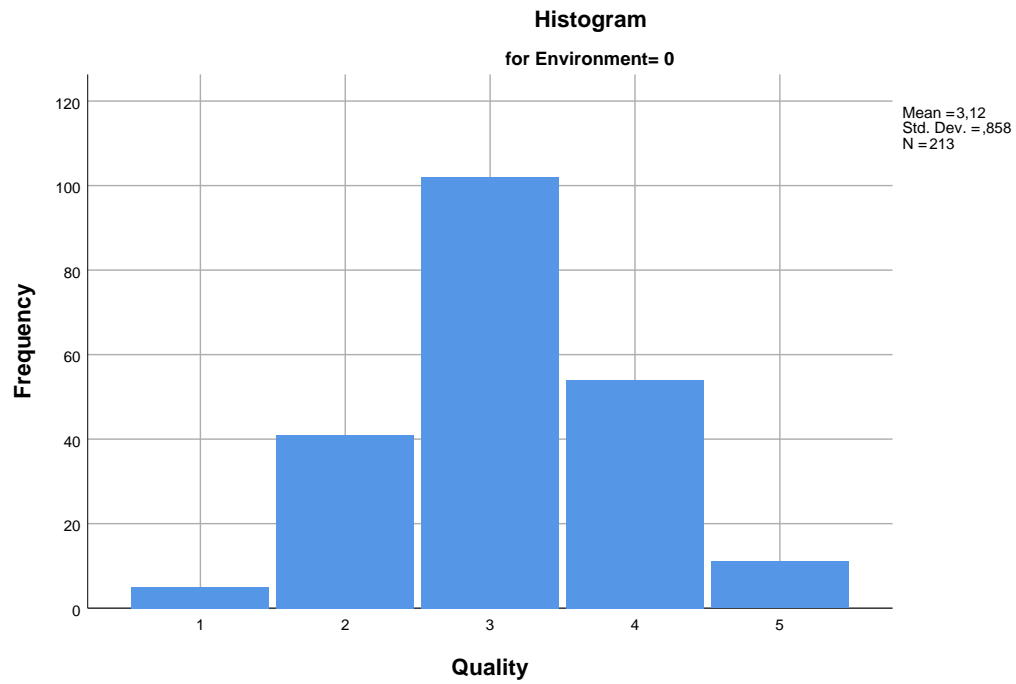
Tests of Normality

Environment		Kolmogorov-Smirnov ^a			Shapiro-Wilk		
		Statistic	df	Sig.	Statistic	df	Sig.
Quality	0	,249	213	,000	,884	213	,000
	1	,254	192	,000	,860	192	,000

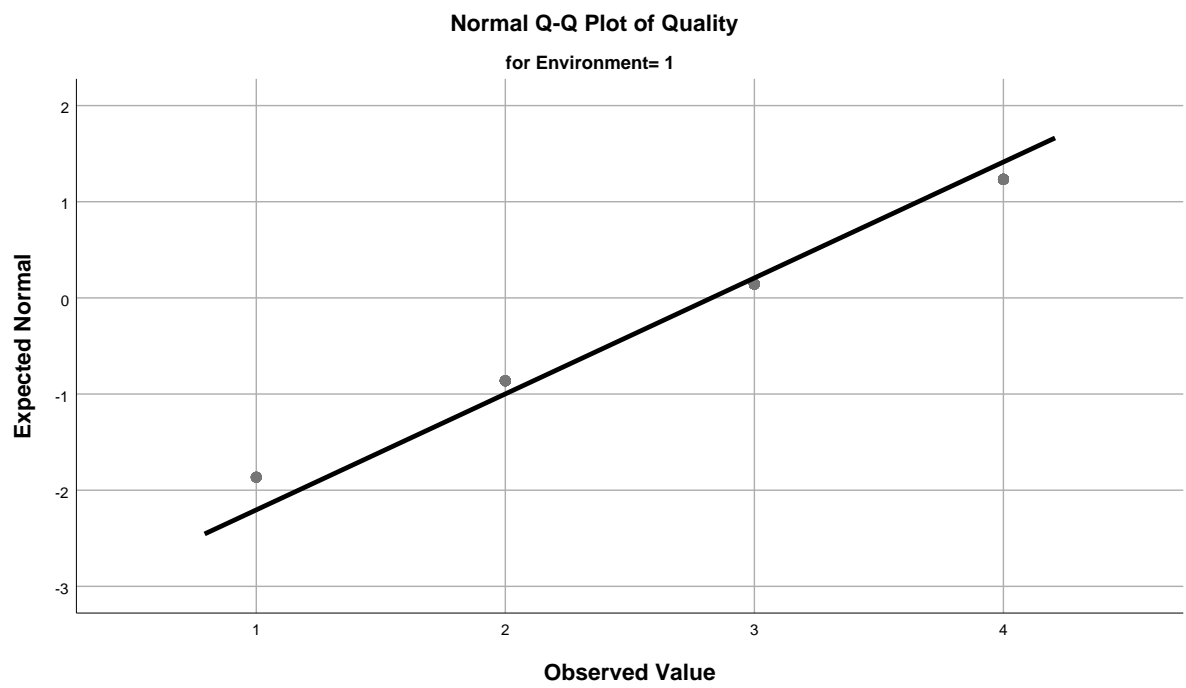
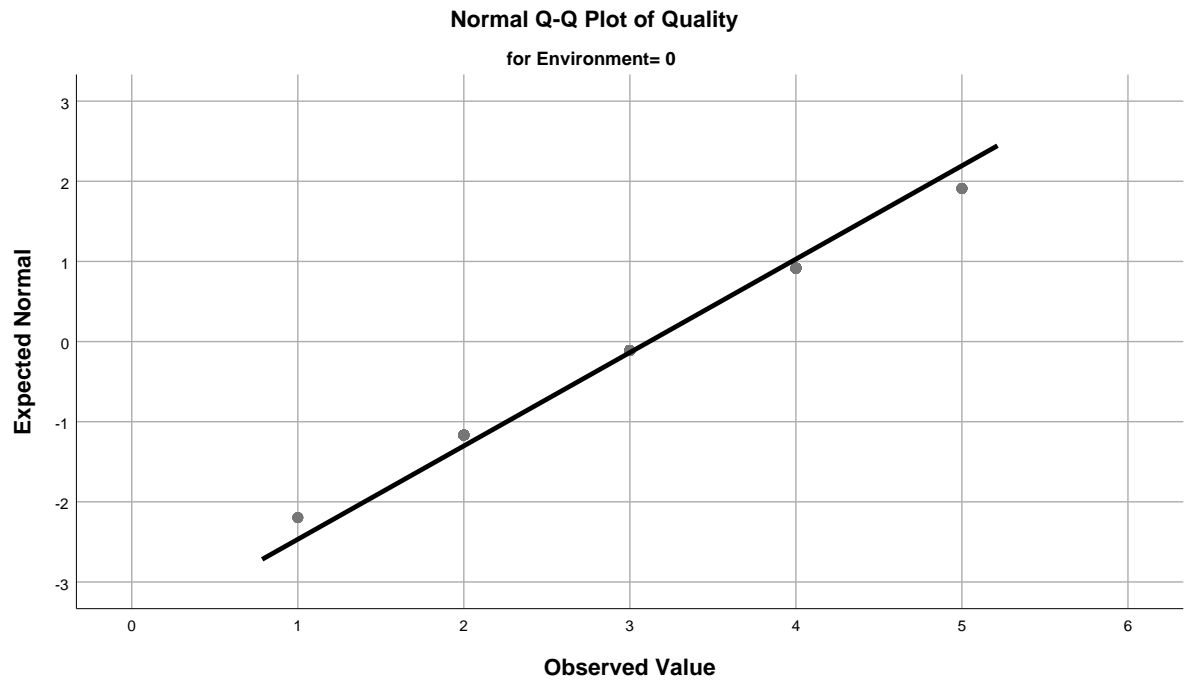
a. Lilliefors Significance Correction

Quality

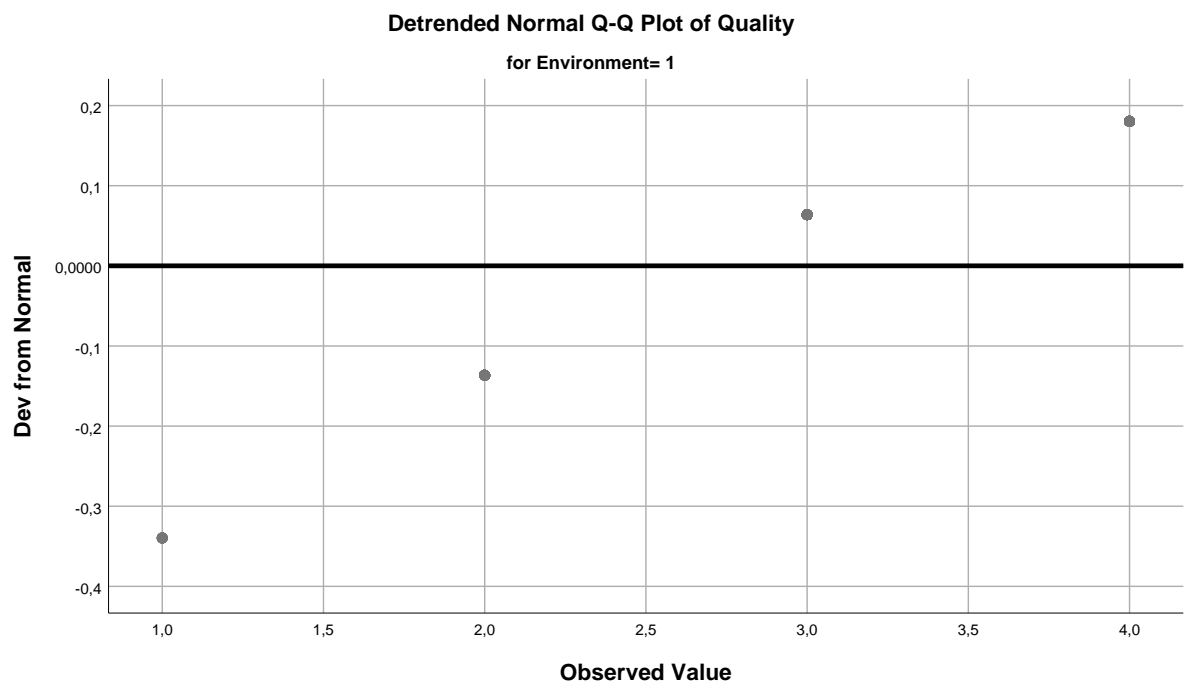
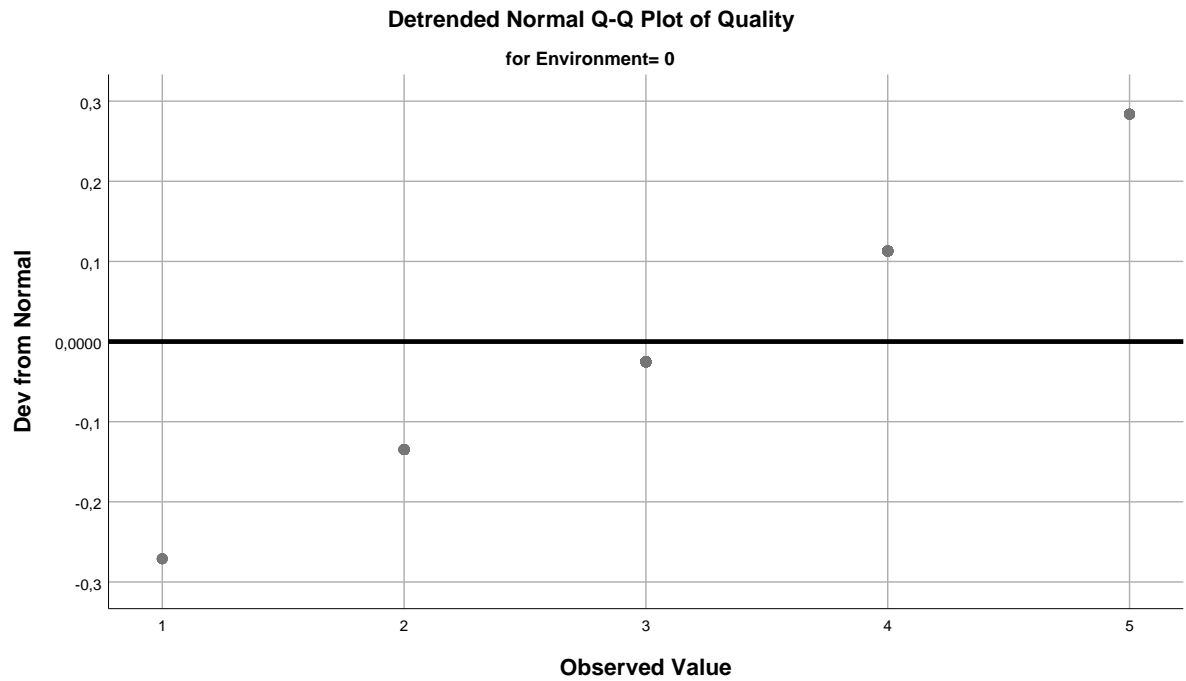
Histograms

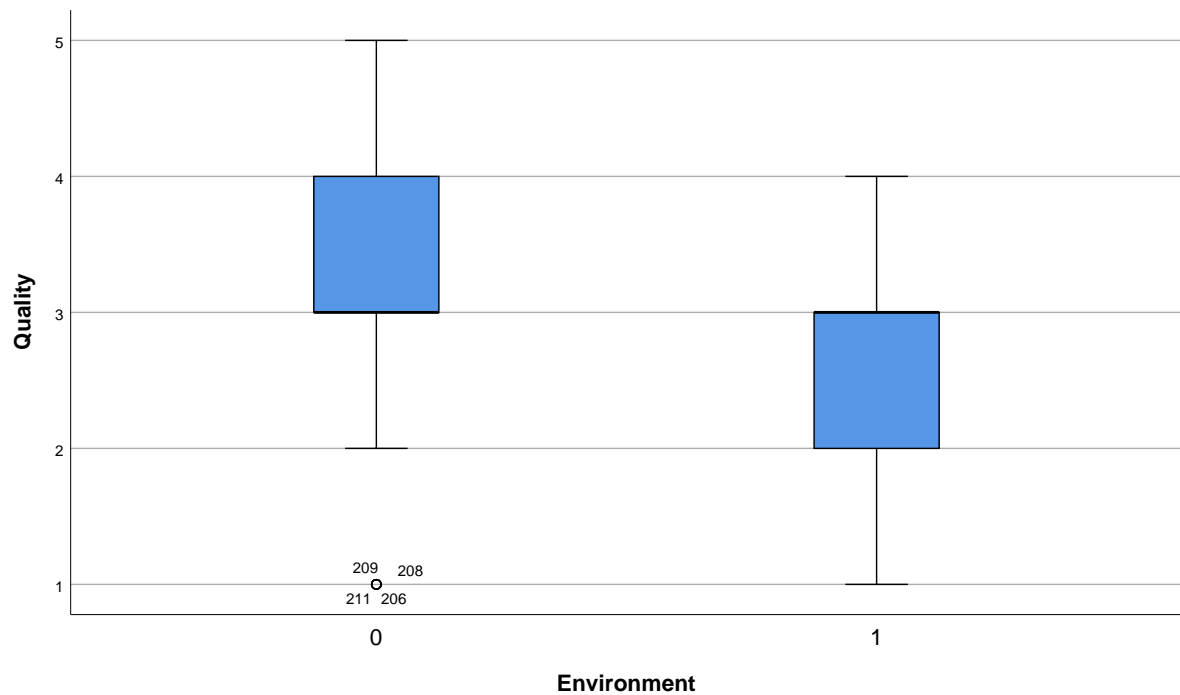


Normal Q-Q Plots



Detrended Normal Q-Q Plots





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T-TEST GROUPS=Environment(0 1)
/MISSING=ANALYSIS
/VARIABLES=Quality
/CRITERIA=CI(.95).
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T-Test

Group Statistics

	Environment	N	Mean	Std. Deviation	Std. Error Mean
Quality	0	213	3,12	,858	,059
	1	192	2,83	,829	,060

Independent Samples Test

		Levene's Test for Equality of Variances		t-test for Equality of Means	
		F	Sig.	t	df
Quality	Equal variances assumed	,090	,764	3,442	403
	Equal variances not assumed			3,448	401,037

Independent Samples Test

		t-test for Equality of Means			
		Sig. (2-tailed)	Mean Difference	Std. Error Difference	95% Confidence ... Lower
Quality	Equal variances assumed	,001	,289	,084	,124
	Equal variances not assumed	,001	,289	,084	,124

Independent Samples Test

		t-test for Equality of Means
		95% Confidence Interval of the ...
		Upper
Quality	Equal variances assumed	,454
	Equal variances not assumed	,454