Univariate Analysis of Variance

Notes

Output Created		24-JAN-2020 11:58:33
Comments		
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Missing Value Handling	Definition of Missing	User-defined missing values are treated as missing.
	Cases Used	Statistics are based on all cases with valid data for all variables in the model.
Syntax		UNIANOVA S1Q5 BY YearsTeachinggroup /METHOD=SSTYPE(3) /INTERCEPT=INCLUDE /PRINT ETASQ HOMOGENEITY OPOWER /CRITERIA=ALPHA(.05) /DESIGN=YearsTeachinggroup.
Resources	Processor Time	00:00:00.05
	Elapsed Time	00:00:00.18

Between-Subjects Factors

		Value Label	N
YearsTeachinggroup	1.00	preservice	13
	2.00	novice (1-6 years)	38
	3.00	intermediate (7-17 years)	39
	4.00	experienced (18+ years)	35

Levene's Test of Equality of Error Variances[a,b]

		Levene Statistic	df1	df2
This is an appropriate choral tone for this style of music.	Based on Mean	4.575	3	121
	Based on Median	1.200	3	121
	Based on Median and with adjusted df	1.200	3	77.245
	Based on trimmed mean	2.880	3	121

Levene's Test of Equality of Error Variances[a,b]

		Sig.
This is an appropriate choral tone for this style of music.	Based on Mean	.005
	Based on Median	.313
	Based on Median and with adjusted df	.316
	Based on trimmed mean	.039

Tests the null hypothesis that the error variance of the dependent variable is equal across groups.

a. Dependent variable: This is an appropriate choral tone for this style of music.

b. Design: Intercept + YearsTeachinggroup

Tests of Between-Subjects Effects

Dependent Variable: This is an appropriate choral tone for this style of music.

Source	Type III Sum of Squares	df	Mean Square	F	Sig.
Corrected Model	1.595[a]	3	.532	1.200	.313
Intercept	2280.009	1	2280.009	5146.514	.000
YearsTeachinggroup	1.595	3	.532	1.200	.313
Error	53.605	121	.443		
Total	2840.000	125			
Corrected Total	55.200	124			

Tests of Between-Subjects Effects

Dependent Variable: This is an appropriate choral tone for this style of music.

Source	Partial Eta Squared	Noncent. Parameter	Observed Power[b]
Corrected Model	.029	3.599	.315
Intercept	.977	5146.514	1.000
YearsTeachinggroup	.029	3.599	.315
Error			
Total			
Corrected Total			

a. R Squared = .029 (Adjusted R Squared = .005)

b. Computed using alpha = .05

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Univariate Analysis of Variance

Notes

Output Created		24-JAN-2020 11:59:47
Comments		
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Missing Value Handling	Definition of Missing	User-defined missing values are treated as missing.
	Cases Used	Statistics are based on all cases with valid data for all variables in the model.
Syntax		UNIANOVA S2Q5 BY YearsTeachinggroup /METHOD=SSTYPE(3) /INTERCEPT=INCLUDE /PRINT ETASQ HOMOGENEITY OPOWER /CRITERIA=ALPHA(.05) /DESIGN=YearsTeachinggroup.
Resources	Processor Time	00:00:00.03
	Elapsed Time	00:00:00.18

Between-Subjects Factors

		Value Label	N
YearsTeachinggroup	1.00	preservice	13
	2.00	novice (1-6 years)	38
	3.00	intermediate (7-17 years)	39
	4.00	experienced (18+ years)	35

Levene's Test of Equality of Error Variances[a,b]

		Levene Statistic	df1	df2
This is an appropriate choral tone for this style of music.	Based on Mean	4.518	3	121
	Based on Median	1.142	3	121
	Based on Median and with adjusted df	1.142	3	90.281
	Based on trimmed mean	2.995	3	121

Levene's Test of Equality of Error Variances[a,b]

		Sig.
This is an appropriate choral tone for this style of music.	Based on Mean	.005
	Based on Median	.335
	Based on Median and with adjusted df	.336
	Based on trimmed mean	.034

Tests the null hypothesis that the error variance of the dependent variable is equal across groups.

a. Dependent variable: This is an appropriate choral tone for this style of music.

b. Design: Intercept + YearsTeachinggroup

Tests of Between-Subjects Effects

Dependent Variable: This is an appropriate choral tone for this style of music.

Source	Type III Sum of Squares	df	Mean Square	F	Sig.
Corrected Model	1.594[a]	3	.531	1.142	.335
Intercept	2188.700	1	2188.700	4704.484	.000
YearsTeachinggroup	1.594	3	.531	1.142	.335
Error	56.294	121	.465		
Total	2777.000	125			
Corrected Total	57.888	124			

Tests of Between-Subjects Effects

Dependent Variable: This is an appropriate choral tone for this style of music.

Source	Partial Eta Squared	Noncent. Parameter	Observed Power[b]
Corrected Model	.028	3.427	.301
Intercept	.975	4704.484	1.000
YearsTeachinggroup	.028	3.427	.301
Error			
Total			
Corrected Total			

a. R Squared = .028 (Adjusted R Squared = .003)

b. Computed using alpha = .05

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Univariate Analysis of Variance

Notes

Output Created		24-JAN-2020 12:00:07
Comments		
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Missing Value Handling	Definition of Missing	User-defined missing values are treated as missing.
	Cases Used	Statistics are based on all cases with valid data for all variables in the model.
Syntax		UNIANOVA S3Q5 BY YearsTeachinggroup /METHOD=SSTYPE(3) /INTERCEPT=INCLUDE /PRINT ETASQ HOMOGENEITY OPOWER /CRITERIA=ALPHA(.05) /DESIGN=YearsTeachinggroup.
Resources	Processor Time	00:00:00.00
	Elapsed Time	00:00:00.16

Between-Subjects Factors

		Value Label	N
YearsTeachinggroup	1.00	preservice	13
	2.00	novice (1-6 years)	38
	3.00	intermediate (7-17 years)	39
	4.00	experienced (18+ years)	35

Levene's Test of Equality of Error Variances[a,b]

		Levene Statistic	df1	df2
This is an appropriate choral tone for this style of music.	Based on Mean	3.273	3	121
	Based on Median	1.388	3	121
	Based on Median and with adjusted df	1.388	3	104.480
	Based on trimmed mean	2.840	3	121

Levene's Test of Equality of Error Variances[a,b]

		Sig.
This is an appropriate choral tone for this style of music.	Based on Mean	.024
	Based on Median	.250
	Based on Median and with adjusted df	.251
	Based on trimmed mean	.041

Tests the null hypothesis that the error variance of the dependent variable is equal across groups.

a. Dependent variable: This is an appropriate choral tone for this style of music.

b. Design: Intercept + YearsTeachinggroup

Tests of Between-Subjects Effects

Dependent Variable: This is an appropriate choral tone for this style of music.

Source	Type III Sum of Squares	df	Mean Square	F	Sig.
Corrected Model	17.562[a]	3	5.854	5.459	.001
Intercept	1461.257	1	1461.257	1362.709	.000
YearsTeachinggroup	17.562	3	5.854	5.459	.001
Error	129.750	121	1.072		
Total	1907.000	125			
Corrected Total	147.312	124			

Tests of Between-Subjects Effects

Dependent Variable: This is an appropriate choral tone for this style of music.

Source	Partial Eta Squared	Noncent. Parameter	Observed Power[b]
Corrected Model	.119	16.377	.932
Intercept	.918	1362.709	1.000
YearsTeachinggroup	.119	16.377	.932
Error			
Total			
Corrected Total			

a. R Squared = .119 (Adjusted R Squared = .097)

b. Computed using alpha = .05

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Univariate Analysis of Variance

Notes

Output Created		24-JAN-2020 12:02:14
Comments		
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	N of Rows in Working Data File	125
Missing Value Handling	Definition of Missing	User-defined missing values are treated as missing.
	Cases Used	Statistics are based on all cases with valid data for all variables in the model.
Syntax		UNIANOVA S4Q5 BY YearsTeachinggroup /METHOD=SSTYPE(3) /INTERCEPT=INCLUDE /PRINT ETASQ HOMOGENEITY OPOWER /CRITERIA=ALPHA(.05) /DESIGN=YearsTeachinggroup.
Resources	Processor Time	00:00:00.05
	Elapsed Time	00:00:00.19

Between-Subjects Factors

		Value Label	N
YearsTeachinggroup	1.00	preservice	13
	2.00	novice (1-6 years)	38
	3.00	intermediate (7-17 years)	39
	4.00	experienced (18+ years)	35

Levene's Test of Equality of Error Variances[a,b]

		Levene Statistic	df1	df2
This is an appropriate choral tone for this style of music.	Based on Mean	4.022	3	121
	Based on Median	1.603	3	121
	Based on Median and with adjusted df	1.603	3	104.579
	Based on trimmed mean	4.191	3	121

Levene's Test of Equality of Error Variances[a,b]

		Sig.
This is an appropriate choral tone for this style of music.	Based on Mean	.009
	Based on Median	.192
	Based on Median and with adjusted df	.193
	Based on trimmed mean	.007

Tests the null hypothesis that the error variance of the dependent variable is equal across groups.

a. Dependent variable: This is an appropriate choral tone for this style of music.

b. Design: Intercept + YearsTeachinggroup

Tests of Between-Subjects Effects

Dependent Variable: This is an appropriate choral tone for this style of music.

Source	Type III Sum of Squares	df	Mean Square	F	Sig.
Corrected Model	4.024[a]	3	1.341	1.603	.192
Intercept	2005.676	1	2005.676	2397.511	.000
YearsTeachinggroup	4.024	3	1.341	1.603	.192
Error	101.224	121	.837		
Total	2641.000	125			
Corrected Total	105.248	124			

Tests of Between-Subjects Effects

Dependent Variable: This is an appropriate choral tone for this style of music.

Source	Partial Eta Squared	Noncent. Parameter	Observed Power[b]
Corrected Model	.038	4.810	.413
Intercept	.952	2397.511	1.000
YearsTeachinggroup	.038	4.810	.413
Error			
Total			
Corrected Total			

a. R Squared = .038 (Adjusted R Squared = .014)

b. Computed using alpha = .05

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Univariate Analysis of Variance

Notes

Output Created		24-JAN-2020 12:02:59
Comments		
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	N of Rows in Working Data File	125
Missing Value Handling	Definition of Missing	User-defined missing values are treated as missing.
	Cases Used	Statistics are based on all cases with valid data for all variables in the model.
Syntax		UNIANOVA S5Q5 BY YearsTeachinggroup /METHOD=SSTYPE(3) /INTERCEPT=INCLUDE /PRINT ETASQ HOMOGENEITY OPOWER /CRITERIA=ALPHA(.05) /DESIGN=YearsTeachinggroup.
Resources	Processor Time	00:00:00.05
	Elapsed Time	00:00:00.16

Between-Subjects Factors

		Value Label	N
YearsTeachinggroup	1.00	preservice	13
	2.00	novice (1-6 years)	38
	3.00	intermediate (7-17 years)	39
	4.00	experienced (18+ years)	35

Levene's Test of Equality of Error Variances[a,b]

		Levene Statistic	df1	df2
This is an appropriate choral tone for this style of music.	Based on Mean	.876	3	121
	Based on Median	.298	3	121
	Based on Median and with adjusted df	.298	3	112.301
	Based on trimmed mean	.638	3	121

Levene's Test of Equality of Error Variances[a,b]

		Sig.
This is an appropriate choral tone for this style of music.	Based on Mean	.456
	Based on Median	.827
	Based on Median and with adjusted df	.827
	Based on trimmed mean	.592

Tests the null hypothesis that the error variance of the dependent variable is equal across groups.

a. Dependent variable: This is an appropriate choral tone for this style of music.

b. Design: Intercept + YearsTeachinggroup

Tests of Between-Subjects Effects

Dependent Variable: This is an appropriate choral tone for this style of music.

Source	Type III Sum of Squares	df	Mean Square	F	Sig.
Corrected Model	1.777[a]	3	.592	1.066	.366
Intercept	1973.118	1	1973.118	3551.153	.000
YearsTeachinggroup	1.777	3	.592	1.066	.366
Error	67.231	121	.556		
Total	2551.000	125			
Corrected Total	69.008	124			

Tests of Between-Subjects Effects

Dependent Variable: This is an appropriate choral tone for this style of music.

Source	Partial Eta Squared	Noncent. Parameter	Observed Power[b]
Corrected Model	.026	3.198	.283
Intercept	.967	3551.153	1.000
YearsTeachinggroup	.026	3.198	.283
Error			
Total			
Corrected Total			

a. R Squared = .026 (Adjusted R Squared = .002)

b. Computed using alpha = .05

```
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Univariate Analysis of Variance

Notes

Output Created		24-JAN-2020 12:03:15
Comments		
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Missing Value Handling	Definition of Missing	User-defined missing values are treated as missing.
	Cases Used	Statistics are based on all cases with valid data for all variables in the model.
Syntax		UNIANOVA S6Q5 BY YearsTeachinggroup /METHOD=SSTYPE(3) /INTERCEPT=INCLUDE /PRINT ETASQ HOMOGENEITY OPOWER /CRITERIA=ALPHA(.05) /DESIGN=YearsTeachinggroup.
Resources	Processor Time	00:00:00.03
	Elapsed Time	00:00:00.19

Between-Subjects Factors

		Value Label	N
YearsTeachinggroup	1.00	preservice	13
	2.00	novice (1-6 years)	38
	3.00	intermediate (7-17 years)	39
	4.00	experienced (18+ years)	35

Levene's Test of Equality of Error Variances[a,b]

		Levene Statistic	df1	df2
This is an appropriate choral tone for this style of music.	Based on Mean	1.489	3	121
	Based on Median	1.020	3	121
	Based on Median and with adjusted df	1.020	3	111.746
	Based on trimmed mean	1.389	3	121

Levene's Test of Equality of Error Variances[a,b]

		Sig.
This is an appropriate choral tone for this style of music.	Based on Mean	.221
	Based on Median	.386
	Based on Median and with adjusted df	.387
	Based on trimmed mean	.250

Tests the null hypothesis that the error variance of the dependent variable is equal across groups.

a. Dependent variable: This is an appropriate choral tone for this style of music.

b. Design: Intercept + YearsTeachinggroup

Tests of Between-Subjects Effects

Dependent Variable: This is an appropriate choral tone for this style of music.

Source	Type III Sum of Squares	df	Mean Square	F	Sig.
Corrected Model	9.942[a]	3	3.314	2.542	.060
Intercept	1621.271	1	1621.271	1243.420	.000
YearsTeachinggroup	9.942	3	3.314	2.542	.060
Error	157.770	121	1.304		
Total	2216.000	125			
Corrected Total	167.712	124			

Tests of Between-Subjects Effects

Dependent Variable: This is an appropriate choral tone for this style of music.

Source	Partial Eta Squared	Noncent. Parameter	Observed Power[b]
Corrected Model	.059	7.625	.615
Intercept	.911	1243.420	1.000
YearsTeachinggroup	.059	7.625	.615
Error			
Total			
Corrected Total			

a. R Squared = .059 (Adjusted R Squared = .036)

b. Computed using alpha = .05

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 /INTERCEPT=INCLUDE
 /PRINT ETASQ HOMOGENEITY OPOWER
 /CRITERIA=ALPHA(.05)
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Univariate Analysis of Variance

Notes

Output Created		24-JAN-2020 12:04:53
Comments		
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Missing Value Handling	Definition of Missing	User-defined missing values are treated as missing.
	Cases Used	Statistics are based on all cases with valid data for all variables in the model.
Syntax		UNIANOVA S7Q5 BY YearsTeachinggroup /METHOD=SSTYPE(3) /INTERCEPT=INCLUDE /PRINT ETASQ HOMOGENEITY OPOWER /CRITERIA=ALPHA(.05) /DESIGN=YearsTeachinggroup.
Resources	Processor Time	00:00:00.02
	Elapsed Time	00:00:00.17

Between-Subjects Factors

		Value Label	N
YearsTeachinggroup	1.00	preservice	13
	2.00	novice (1-6 years)	38
	3.00	intermediate (7-17 years)	39
	4.00	experienced (18+ years)	35

Levene's Test of Equality of Error Variances[a,b]

		Levene Statistic	df1	df2
This is an appropriate choral tone for this style of music.	Based on Mean	1.028	3	121
	Based on Median	.798	3	121
	Based on Median and with adjusted df	.798	3	119.449
	Based on trimmed mean	1.081	3	121

Levene's Test of Equality of Error Variances[a,b]

		Sig.
This is an appropriate choral tone for this style of music.	Based on Mean	.383
	Based on Median	.497
	Based on Median and with adjusted df	.498
	Based on trimmed mean	.360

Tests the null hypothesis that the error variance of the dependent variable is equal across groups.

a. Dependent variable: This is an appropriate choral tone for this style of music.

b. Design: Intercept + YearsTeachinggroup

Tests of Between-Subjects Effects

Dependent Variable: This is an appropriate choral tone for this style of music.

Source	Type III Sum of Squares	df	Mean Square	F	Sig.
Corrected Model	.423[a]	3	.141	.098	.961
Intercept	1295.027	1	1295.027	900.021	.000
YearsTeachinggroup	.423	3	.141	.098	.961
Error	174.105	121	1.439		
Total	1773.000	125			
Corrected Total	174.528	124			

Tests of Between-Subjects Effects

Dependent Variable: This is an appropriate choral tone for this style of music.

Source	Partial Eta Squared	Noncent. Parameter	Observed Power[b]
Corrected Model	.002	.294	.067
Intercept	.881	900.021	1.000
YearsTeachinggroup	.002	.294	.067
Error			
Total			
Corrected Total			

a. R Squared = .002 (Adjusted R Squared = -.022)

b. Computed using alpha = .05

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UNIANOVA S8Q5 BY YearsTeachinggroup
  /METHOD=SSTYPE(3)
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  /PRINT ETASQ HOMOGENEITY OPOWER
  /CRITERIA=ALPHA(.05)
  /DESIGN=YearsTeachinggroup
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Univariate Analysis of Variance

Notes

Output Created		24-JAN-2020 12:05:11
Comments		
Input	Data	\\Client\H$\Dropbox\Emily Dissertation Folder\Choral+Music+Performance+Assessment+Evaluation_11.22.19.sav
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	Split File	<none>
	N of Rows in Working Data File	125
Missing Value Handling	Definition of Missing	User-defined missing values are treated as missing.
	Cases Used	Statistics are based on all cases with valid data for all variables in the model.
Syntax		UNIANOVA S8Q5 BY YearsTeachinggroup /METHOD=SSTYPE(3) /INTERCEPT=INCLUDE /PRINT ETASQ HOMOGENEITY OPOWER /CRITERIA=ALPHA(.05) /DESIGN=YearsTeachinggroup.
Resources	Processor Time	00:00:00.02
	Elapsed Time	00:00:00.16

Between-Subjects Factors

		Value Label	N
YearsTeachinggroup	1.00	preservice	13
	2.00	novice (1-6 years)	38
	3.00	intermediate (7-17 years)	39
	4.00	experienced (18+ years)	35

Levene's Test of Equality of Error Variances[a,b]

		Levene Statistic	df1	df2
This is an appropriate choral tone for this style of music.	Based on Mean	1.777	3	121
	Based on Median	1.966	3	121
	Based on Median and with adjusted df	1.966	3	116.149
	Based on trimmed mean	2.194	3	121

Levene's Test of Equality of Error Variances[a,b]

		Sig.
This is an appropriate choral tone for this style of music.	Based on Mean	.155
	Based on Median	.123
	Based on Median and with adjusted df	.123
	Based on trimmed mean	.092

Tests the null hypothesis that the error variance of the dependent variable is equal across groups.

a. Dependent variable: This is an appropriate choral tone for this style of music.

b. Design: Intercept + YearsTeachinggroup

Tests of Between-Subjects Effects

Dependent Variable: This is an appropriate choral tone for this style of music.

Source	Type III Sum of Squares	df	Mean Square	F	Sig.
Corrected Model	12.694[a]	3	4.231	4.372	.006
Intercept	1818.761	1	1818.761	1879.114	.000
YearsTeachinggroup	12.694	3	4.231	4.372	.006
Error	117.114	121	.968		
Total	2394.000	125			
Corrected Total	129.808	124			

Tests of Between-Subjects Effects

Dependent Variable: This is an appropriate choral tone for this style of music.

Source	Partial Eta Squared	Noncent. Parameter	Observed Power[b]
Corrected Model	.098	13.115	.862
Intercept	.940	1879.114	1.000
YearsTeachinggroup	.098	13.115	.862
Error			
Total			
Corrected Total			

a. R Squared = .098 (Adjusted R Squared = .075)

b. Computed using alpha = .05

```
UNIANOVA S3Q5 BY Racegroup
  /METHOD=SSTYPE(3)
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  /PRINT ETASQ HOMOGENEITY OPOWER
  /CRITERIA=ALPHA(.05)
  /DESIGN=Racegroup.
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UNIANOVA S8Q5 BY YearsTeachinggroup
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  /INTERCEPT=INCLUDE
  /POSTHOC=YearsTeachinggroup(TUKEY)
  /PRINT ETASQ HOMOGENEITY OPOWER
  /CRITERIA=ALPHA(.05)
  /DESIGN=YearsTeachinggroup.
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Univariate Analysis of Variance

Notes

Output Created		24-JAN-2020 12:11:22
Comments		
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	Active Dataset	DataSet1
	Filter	<none>
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	Split File	<none>
	N of Rows in Working Data File	125
Missing Value Handling	Definition of Missing	User-defined missing values are treated as missing.
	Cases Used	Statistics are based on all cases with valid data for all variables in the model.
Syntax		UNIANOVA S8Q5 BY YearsTeachinggroup /METHOD=SSTYPE(3) /INTERCEPT=INCLUDE /POSTHOC=YearsTeachinggroup(TUKEY) /PRINT ETASQ HOMOGENEITY OPOWER /CRITERIA=ALPHA(.05) /DESIGN=YearsTeachinggroup.
Resources	Processor Time	00:00:00.05
	Elapsed Time	00:00:00.20

Between-Subjects Factors

		Value Label	N
YearsTeachinggroup	1.00	preservice	13
	2.00	novice (1-6 years)	38
	3.00	intermediate (7-17 years)	39
	4.00	experienced (18+ years)	35

Levene's Test of Equality of Error Variances[a,b]

		Levene Statistic	df1	df2
This is an appropriate choral tone for this style of music.	Based on Mean	1.777	3	121
	Based on Median	1.966	3	121
	Based on Median and with adjusted df	1.966	3	116.149
	Based on trimmed mean	2.194	3	121

Levene's Test of Equality of Error Variances[a,b]

		Sig.
This is an appropriate choral tone for this style of music.	Based on Mean	.155
	Based on Median	.123
	Based on Median and with adjusted df	.123
	Based on trimmed mean	.092

Tests the null hypothesis that the error variance of the dependent variable is equal across groups.

a. Dependent variable: This is an appropriate choral tone for this style of music.

b. Design: Intercept + YearsTeachinggroup

Tests of Between-Subjects Effects

Dependent Variable: This is an appropriate choral tone for this style of music.

Source	Type III Sum of Squares	df	Mean Square	F	Sig.
Corrected Model	12.694[a]	3	4.231	4.372	.006
Intercept	1818.761	1	1818.761	1879.114	.000
YearsTeachinggroup	12.694	3	4.231	4.372	.006
Error	117.114	121	.968		
Total	2394.000	125			
Corrected Total	129.808	124			

Tests of Between-Subjects Effects

Dependent Variable: This is an appropriate choral tone for this style of music.

Source	Partial Eta Squared	Noncent. Parameter	Observed Power[b]
Corrected Model	.098	13.115	.862
Intercept	.940	1879.114	1.000
YearsTeachinggroup	.098	13.115	.862
Error			
Total			
Corrected Total			

a. R Squared = .098 (Adjusted R Squared = .075)

b. Computed using alpha = .05

Post Hoc Tests

YearsTeachinggroup

Multiple Comparisons

Dependent Variable: This is an appropriate choral tone for this style of music.

Tukey HSD

(I) YearsTeachinggroup	(J) YearsTeachinggroup	Mean Difference (I-J)	Std. Error	Sig.
preservice	novice (1-6 years)	-.50	.316	.386
	intermediate (7-17 years)	-.13	.315	.977
	experienced (18+ years)	.33	.320	.739
novice (1-6 years)	preservice	.50	.316	.386
	intermediate (7-17 years)	.38	.224	.341
	experienced (18+ years)	.83*	.230	.003
intermediate (7-17 years)	preservice	.13	.315	.977
	novice (1-6 years)	-.38	.224	.341
	experienced (18+ years)	.45	.229	.201
experienced (18+ years)	preservice	-.33	.320	.739
	novice (1-6 years)	-.83*	.230	.003
	intermediate (7-17 years)	-.45	.229	.201

Multiple Comparisons

Dependent Variable: This is an appropriate choral tone for this style of music.

Tukey HSD

(I) YearsTeachinggroup	(J) YearsTeachinggroup	95% Confidence Interval	
		Lower Bound	Upper Bound
preservice	novice (1-6 years)	-1.33	.32
	intermediate (7-17 years)	-.95	.69
	experienced (18+ years)	-.51	1.16
novice (1-6 years)	preservice	-.32	1.33
	intermediate (7-17 years)	-.21	.96
	experienced (18+ years)	.23	1.43
intermediate (7-17 years)	preservice	-.69	.95
	novice (1-6 years)	-.96	.21
	experienced (18+ years)	-.14	1.05
experienced (18+ years)	preservice	-1.16	.51
	novice (1-6 years)	-1.43	-.23
	intermediate (7-17 years)	-1.05	.14

Based on observed means.
The error term is Mean Square(Error) = .968.

*. The mean difference is significant at the .05 level.

Homogeneous Subsets

This is an appropriate choral tone for this style of music.

Tukey HSD[a,b,c]

YearsTeachinggroup	N	Subset	
		1	2
experienced (18+ years)	35	3.83	
preservice	13	4.15	4.15
intermediate (7-17 years)	39	4.28	4.28
novice (1-6 years)	38		4.66
Sig.		.359	.266

Means for groups in homogeneous subsets are displayed.
Based on observed means.
The error term is Mean Square(Error) = .968.

a. Uses Harmonic Mean Sample Size = 25.405.

b. The group sizes are unequal. The harmonic mean of the group sizes is used. Type I error levels are not guaranteed.

c. Alpha = .05.

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Univariate Analysis of Variance

Notes

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Between-Subjects Factors

		Value Label	N
YearsTeachinggroup	1.00	preservice	13
	2.00	novice (1-6 years)	38
	3.00	intermediate (7-17 years)	39
	4.00	experienced (18+ years)	35

Descriptive Statistics

Dependent Variable: This is an appropriate choral tone for this style of music.

YearsTeachinggroup	Mean	Std. Deviation	N
preservice	4.15	.899	13
novice (1-6 years)	4.66	.847	38
intermediate (7-17 years)	4.28	.972	39
experienced (18+ years)	3.83	1.150	35
Total	4.26	1.023	125

Levene's Test of Equality of Error Variances[a,b]

		Levene Statistic	df1	df2
This is an appropriate choral tone for this style of music.	Based on Mean	1.777	3	121
	Based on Median	1.966	3	121
	Based on Median and with adjusted df	1.966	3	116.149
	Based on trimmed mean	2.194	3	121

Levene's Test of Equality of Error Variances[a,b]

		Sig.
This is an appropriate choral tone for this style of music.	Based on Mean	.155
	Based on Median	.123
	Based on Median and with adjusted df	.123
	Based on trimmed mean	.092

Tests the null hypothesis that the error variance of the dependent variable is equal across groups.

a. Dependent variable: This is an appropriate choral tone for this style of music.

b. Design: Intercept + YearsTeachinggroup

Tests of Between-Subjects Effects

Dependent Variable: This is an appropriate choral tone for this style of music.

Source	Type III Sum of Squares	df	Mean Square	F	Sig.
Corrected Model	12.694[a]	3	4.231	4.372	.006
Intercept	1818.761	1	1818.761	1879.114	.000
YearsTeachinggroup	12.694	3	4.231	4.372	.006
Error	117.114	121	.968		
Total	2394.000	125			
Corrected Total	129.808	124			

Tests of Between-Subjects Effects

Dependent Variable: This is an appropriate choral tone for this style of music.

Source	Partial Eta Squared	Noncent. Parameter	Observed Power[b]
Corrected Model	.098	13.115	.862
Intercept	.940	1879.114	1.000
YearsTeachinggroup	.098	13.115	.862
Error			
Total			
Corrected Total			

a. R Squared = .098 (Adjusted R Squared = .075)

b. Computed using alpha = .05

Post Hoc Tests

YearsTeachinggroup

Multiple Comparisons

Dependent Variable: This is an appropriate choral tone for this style of music.

Tukey HSD

(I) YearsTeachinggroup	(J) YearsTeachinggroup	Mean Difference (I-J)	Std. Error	Sig.
preservice	novice (1-6 years)	-.50	.316	.386
	intermediate (7-17 years)	-.13	.315	.977
	experienced (18+ years)	.33	.320	.739
novice (1-6 years)	preservice	.50	.316	.386
	intermediate (7-17 years)	.38	.224	.341
	experienced (18+ years)	.83*	.230	.003
intermediate (7-17 years)	preservice	.13	.315	.977
	novice (1-6 years)	-.38	.224	.341
	experienced (18+ years)	.45	.229	.201
experienced (18+ years)	preservice	-.33	.320	.739
	novice (1-6 years)	-.83*	.230	.003
	intermediate (7-17 years)	-.45	.229	.201

Multiple Comparisons

Dependent Variable: This is an appropriate choral tone for this style of music.

Tukey HSD

		95% Confidence Interval	
(I) YearsTeachinggroup	(J) YearsTeachinggroup	Lower Bound	Upper Bound
preservice	novice (1-6 years)	-1.33	.32
	intermediate (7-17 years)	-.95	.69
	experienced (18+ years)	-.51	1.16
novice (1-6 years)	preservice	-.32	1.33
	intermediate (7-17 years)	-.21	.96
	experienced (18+ years)	.23	1.43
intermediate (7-17 years)	preservice	-.69	.95
	novice (1-6 years)	-.96	.21
	experienced (18+ years)	-.14	1.05
experienced (18+ years)	preservice	-1.16	.51
	novice (1-6 years)	-1.43	-.23
	intermediate (7-17 years)	-1.05	.14

Based on observed means.
The error term is Mean Square(Error) = .968.

*. The mean difference is significant at the .05 level.

Homogeneous Subsets

This is an appropriate choral tone for this style of music.

Tukey HSD[a,b,c]

YearsTeachinggroup	N	Subset 1	Subset 2
experienced (18+ years)	35	3.83	
preservice	13	4.15	4.15
intermediate (7-17 years)	39	4.28	4.28
novice (1-6 years)	38		4.66
Sig.		.359	.266

Means for groups in homogeneous subsets are displayed.
Based on observed means.
The error term is Mean Square(Error) = .968.

a. Uses Harmonic Mean Sample Size = 25.405.

b. The group sizes are unequal. The harmonic mean of the group sizes is used. Type I error levels are not guaranteed.

c. Alpha = .05.

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Univariate Analysis of Variance

Notes

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	Cases Used	Statistics are based on all cases with valid data for all variables in the model.
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Between-Subjects Factors

		Value Label	N
YearsTeachinggroup	1.00	preservice	13
	2.00	novice (1-6 years)	38
	3.00	intermediate (7-17 years)	39
	4.00	experienced (18+ years)	35

Descriptive Statistics

Dependent Variable: This is an appropriate choral tone for this style of music.

YearsTeachinggroup	Mean	Std. Deviation	N
preservice	4.08	.862	13
novice (1-6 years)	3.76	1.101	38
intermediate (7-17 years)	4.13	.894	39
experienced (18+ years)	3.20	1.158	35
Total	3.75	1.090	125

Levene's Test of Equality of Error Variances[a,b]

		Levene Statistic	df1	df2
This is an appropriate choral tone for this style of music.	Based on Mean	3.273	3	121
	Based on Median	1.388	3	121
	Based on Median and with adjusted df	1.388	3	104.480
	Based on trimmed mean	2.840	3	121

Levene's Test of Equality of Error Variances[a,b]

		Sig.
This is an appropriate choral tone for this style of music.	Based on Mean	.024
	Based on Median	.250
	Based on Median and with adjusted df	.251
	Based on trimmed mean	.041

Tests the null hypothesis that the error variance of the dependent variable is equal across groups.

a. Dependent variable: This is an appropriate choral tone for this style of music.

b. Design: Intercept + YearsTeachinggroup

Tests of Between-Subjects Effects

Dependent Variable: This is an appropriate choral tone for this style of music.

Source	Type III Sum of Squares	df	Mean Square	F	Sig.
Corrected Model	17.562[a]	3	5.854	5.459	.001
Intercept	1461.257	1	1461.257	1362.709	.000
YearsTeachinggroup	17.562	3	5.854	5.459	.001
Error	129.750	121	1.072		
Total	1907.000	125			
Corrected Total	147.312	124			

Tests of Between-Subjects Effects

Dependent Variable: This is an appropriate choral tone for this style of music.

Source	Partial Eta Squared	Noncent. Parameter	Observed Power[b]
Corrected Model	.119	16.377	.932
Intercept	.918	1362.709	1.000
YearsTeachinggroup	.119	16.377	.932
Error			
Total			
Corrected Total			

a. R Squared = .119 (Adjusted R Squared = .097)

b. Computed using alpha = .05

Post Hoc Tests

YearsTeachinggroup

Multiple Comparisons

Dependent Variable: This is an appropriate choral tone for this style of music.

Tukey HSD

(I) YearsTeachinggroup	(J) YearsTeachinggroup	Mean Difference (I-J)	Std. Error	Sig.
preservice	novice (1-6 years)	.31	.333	.782
	intermediate (7-17 years)	-.05	.332	.999
	experienced (18+ years)	.88*	.336	.050
novice (1-6 years)	preservice	-.31	.333	.782
	intermediate (7-17 years)	-.37	.236	.413
	experienced (18+ years)	.56	.243	.099
intermediate (7-17 years)	preservice	.05	.332	.999
	novice (1-6 years)	.37	.236	.413
	experienced (18+ years)	.93*	.241	.001
experienced (18+ years)	preservice	-.88*	.336	.050
	novice (1-6 years)	-.56	.243	.099
	intermediate (7-17 years)	-.93*	.241	.001

Multiple Comparisons

Dependent Variable: This is an appropriate choral tone for this style of music.

Tukey HSD

		95% Confidence Interval	
(I) YearsTeachinggroup	(J) YearsTeachinggroup	Lower Bound	Upper Bound
preservice	novice (1-6 years)	-.55	1.18
	intermediate (7-17 years)	-.92	.81
	experienced (18+ years)	.00	1.75
novice (1-6 years)	preservice	-1.18	.55
	intermediate (7-17 years)	-.98	.25
	experienced (18+ years)	-.07	1.20
intermediate (7-17 years)	preservice	-.81	.92
	novice (1-6 years)	-.25	.98
	experienced (18+ years)	.30	1.56
experienced (18+ years)	preservice	-1.75	.00
	novice (1-6 years)	-1.20	.07
	intermediate (7-17 years)	-1.56	-.30

Based on observed means.
The error term is Mean Square(Error) = 1.072.

*. The mean difference is significant at the .05 level.

Homogeneous Subsets

This is an appropriate choral tone for this style of music.

Tukey HSD[a,b,c]

YearsTeachinggroup	N	Subset 1	Subset 2
experienced (18+ years)	35	3.20	
novice (1-6 years)	38	3.76	3.76
preservice	13		4.08
intermediate (7-17 years)	39		4.13
Sig.		.218	.592

Means for groups in homogeneous subsets are displayed.
Based on observed means.
The error term is Mean Square(Error) = 1.072.

a. Uses Harmonic Mean Sample Size = 25.405.

b. The group sizes are unequal. The harmonic mean of the group sizes is used. Type I error levels are not guaranteed.

c. Alpha = .05.

```
 *Nonparametric Tests: Independent Samples.
NPTESTS
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LE COMPARE=PAIRWISE)
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Nonparametric Tests

Notes

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Hypothesis Test Summary

	Null Hypothesis	Test	Sig.
1	The medians of This is an appropriate choral tone for this style of music. are the same across categories of YearsTeachinggroup.	Independent-Samples Median Test	.034

Hypothesis Test Summary

	Decision
1	Reject the null hypothesis.

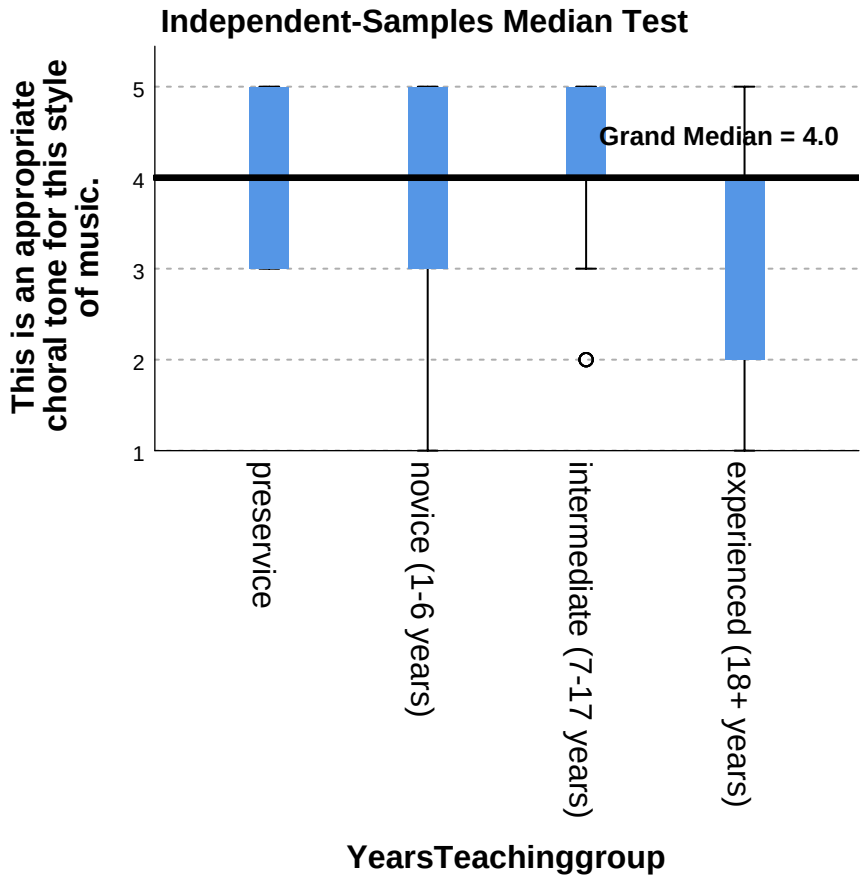
Asymptotic significances are displayed. The significance level is .050.

Independent-Samples Median Test

This is an appropriate choral tone for this style of music. across Year sTeachinggroup

Independent-Samples Median Test Summary

Total N	125
Median	4.000
Test Statistic	8.639
Degree Of Freedom	3
Asymptotic Sig.(2-sided test)	.034



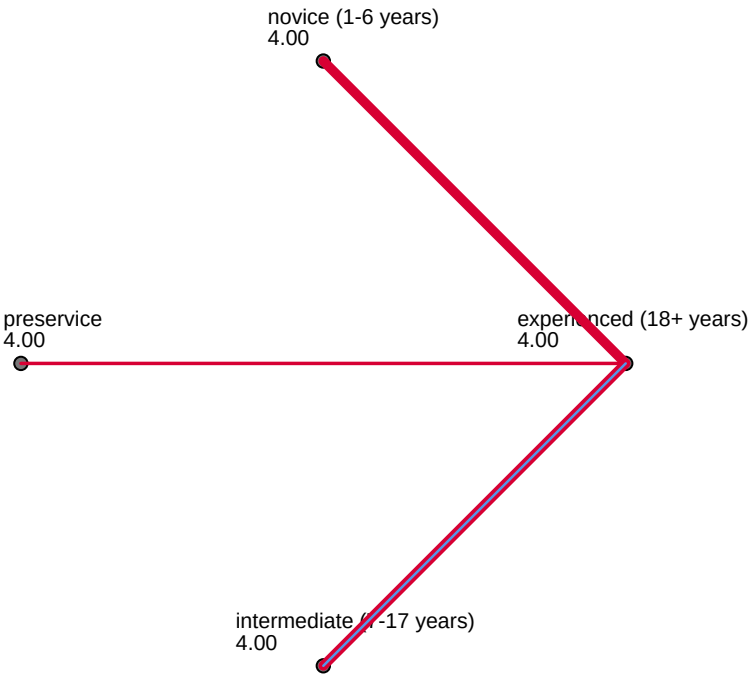
Pairwise Comparisons of YearsTeachinggroup

Sample 1-Sample 2	Test Statistic	Sig.	Adj. Sig.[a]
preservice-novice (1-6 years)	.688	.407	1.000
preservice-intermediate (7-17 years)	.028	.868	1.000
preservice-experienced (18+ years)	6.098	.014	.081
novice (1-6 years)-intermediate (7-17 years)	.824	.364	1.000
novice (1-6 years)-experienced (18+ years)	3.919	.048	.286
intermediate (7-17 years)-experienced (18+ years)	7.784	.005	.032

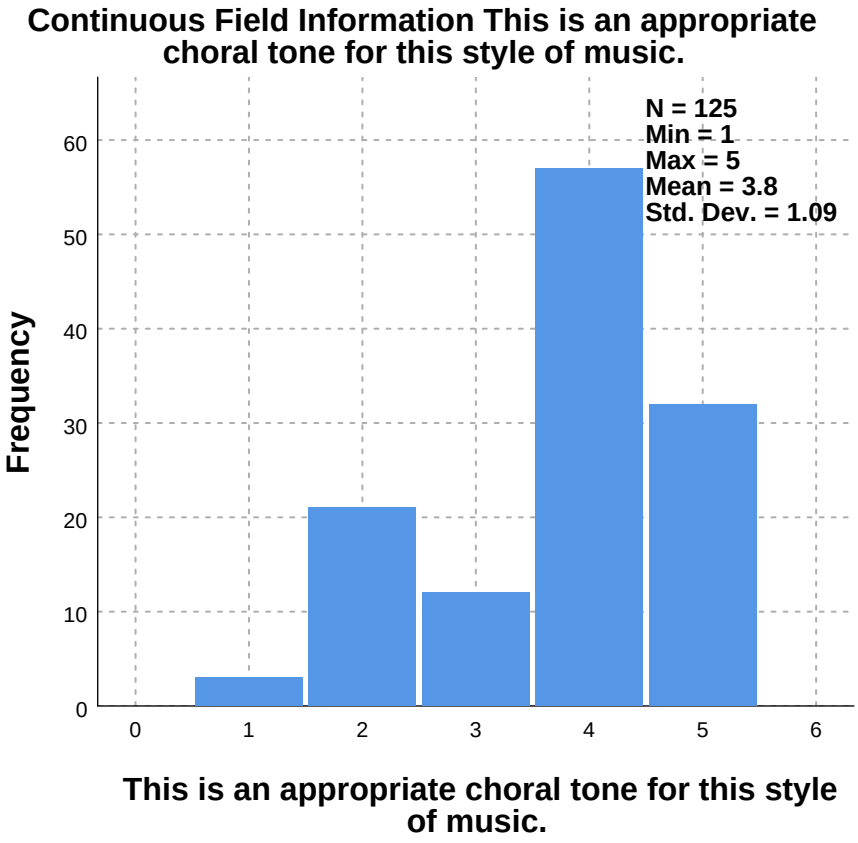
Each row tests the null hypothesis that the Sample 1 and Sample 2 distributions are the same.
Asymptotic significances (2-sided tests) are displayed. The significance level is .05.

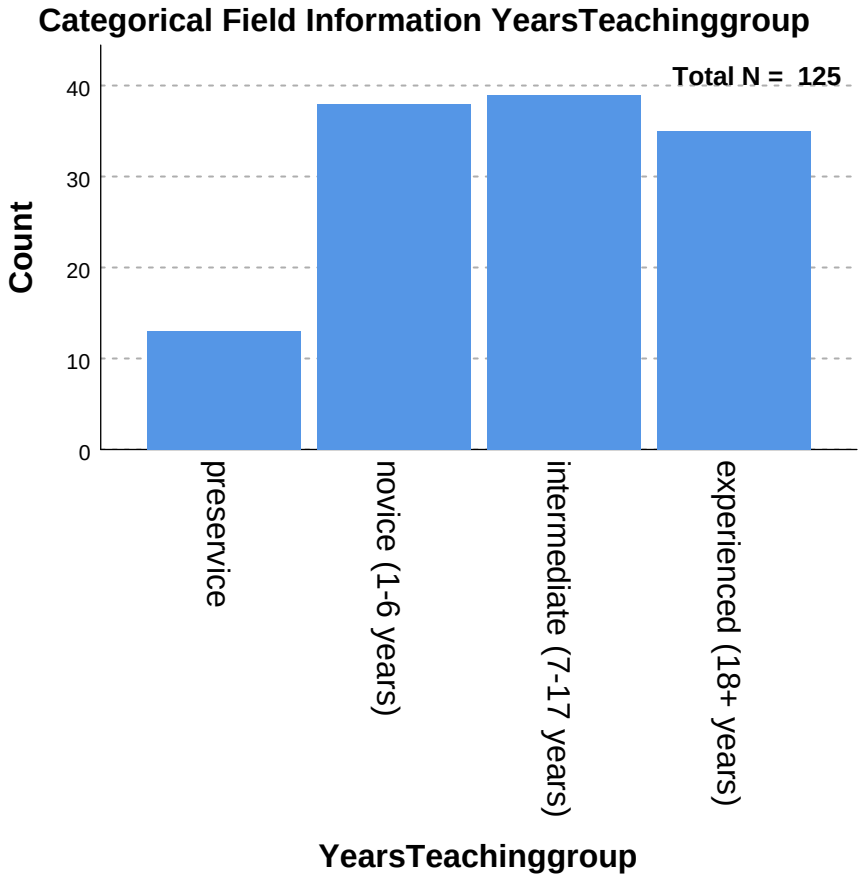
a. Significance values have been adjusted by the Bonferroni correction for multiple tests.

Pairwise Comparisons of YearsTeachinggroup



Each node shows the sample average rank of YearsTeachinggroup.


Continuous Field Information This is an appropriate choral tone for this style of music.
N = 125
Min = 1
Max = 5
Mean = 3.8
Std. Dev. = 1.09
Frequency
60
50
40
30
20
10
0
0
1
2
3
4
5
6
This is an appropriate choral tone for this style of music.

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 *Nonparametric Tests: Independent Samples.
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Nonparametric Tests

Notes

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Hypothesis Test Summary

	Null Hypothesis	Test	Sig.
1	The distribution of This is an appropriate choral tone for this style of music. is the same across categories of YearsTeachinggroup.	Independent-Samples Kruskal-Wallis Test	.764

Hypothesis Test Summary

	Decision
1	Retain the null hypothesis.

Asymptotic significances are displayed. The significance level is .050.

Independent-Samples Kruskal-Wallis Test

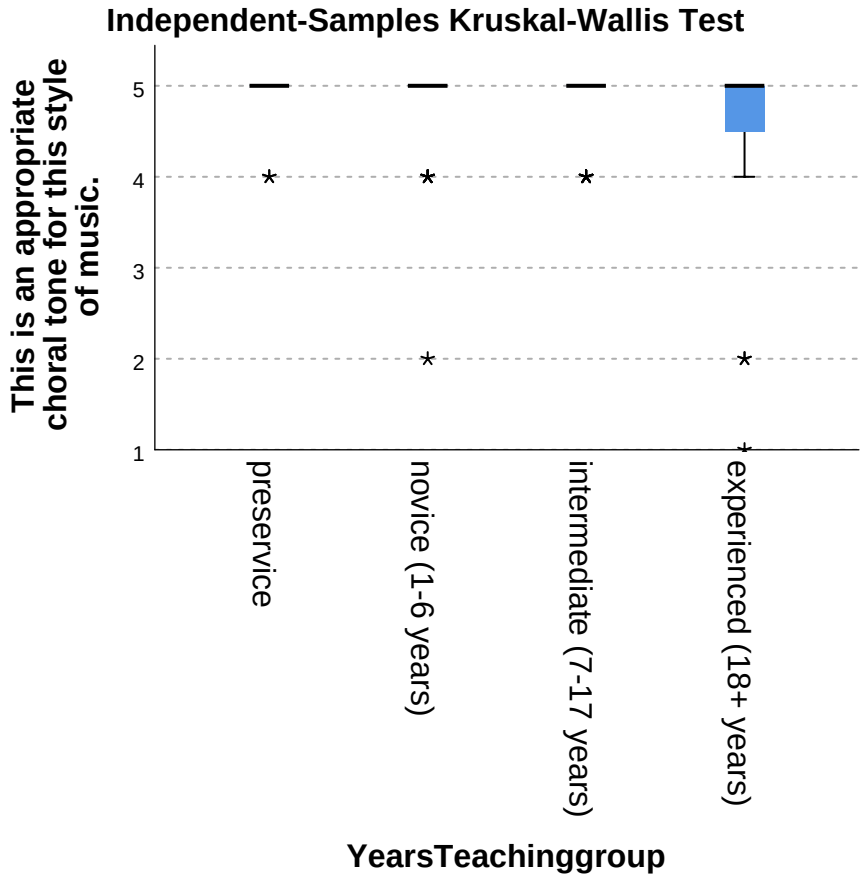
This is an appropriate choral tone for this style of music. across YearsTeachinggroup

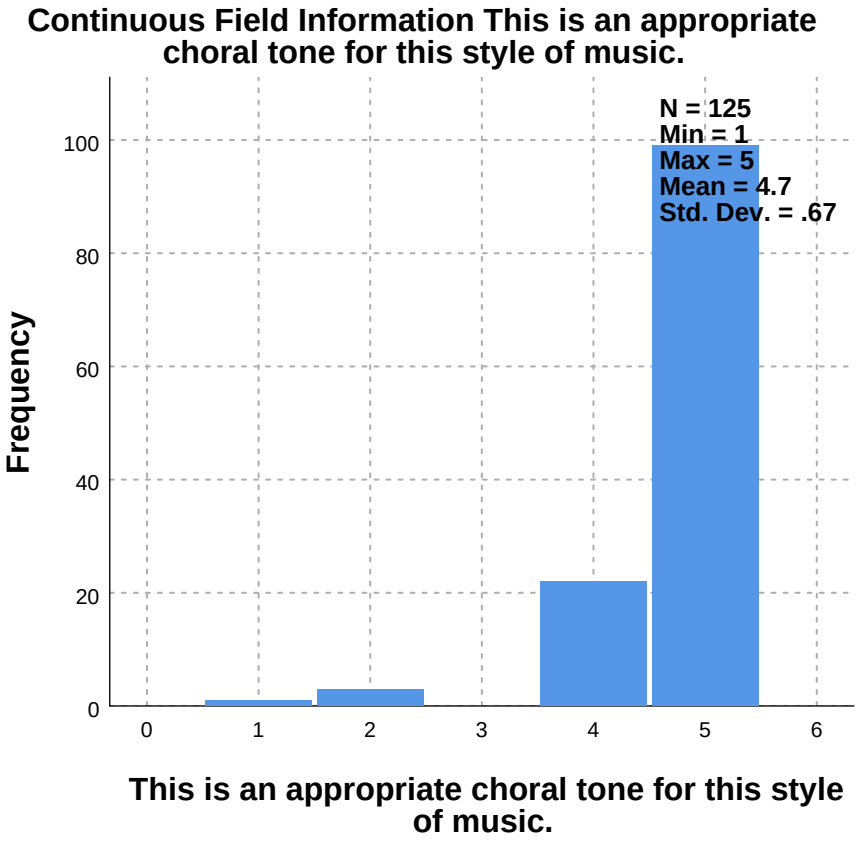
Independent-Samples Kruskal-Wallis Test Summary

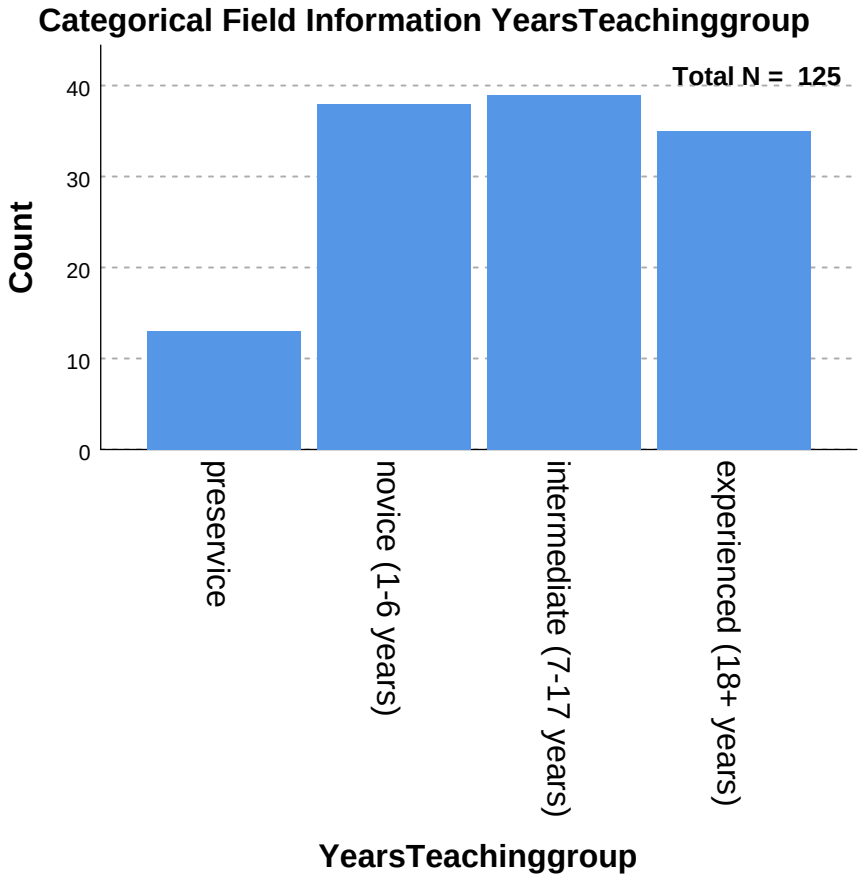
Total N	125
Test Statistic	1.155[a,b]
Degree Of Freedom	3
Asymptotic Sig.(2-sided test)	.764

a. The test statistic is adjusted for ties.

b. Multiple comparisons are not performed because the overall test does not show significant differences across samples.




Continuous Field Information This is an appropriate choral tone for this style of music.
N = 125
Min = 1
Max = 5
Mean = 4.7
Std. Dev. = .67
Frequency
100
80
60
40
20
0
0
1
2
3
4
5
6
This is an appropriate choral tone for this style of music.




```
 *Nonparametric Tests: Independent Samples.
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Nonparametric Tests

Notes

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Hypothesis Test Summary

	Null Hypothesis	Test	Sig.
1	The distribution of This is an appropriate choral tone for this style of music. is the same across categories of YearsTeachinggroup.	Independent-Samples Kruskal-Wallis Test	.597

Hypothesis Test Summary

	Decision
1	Retain the null hypothesis.

Asymptotic significances are displayed. The significance level is .050.

Independent-Samples Kruskal-Wallis Test

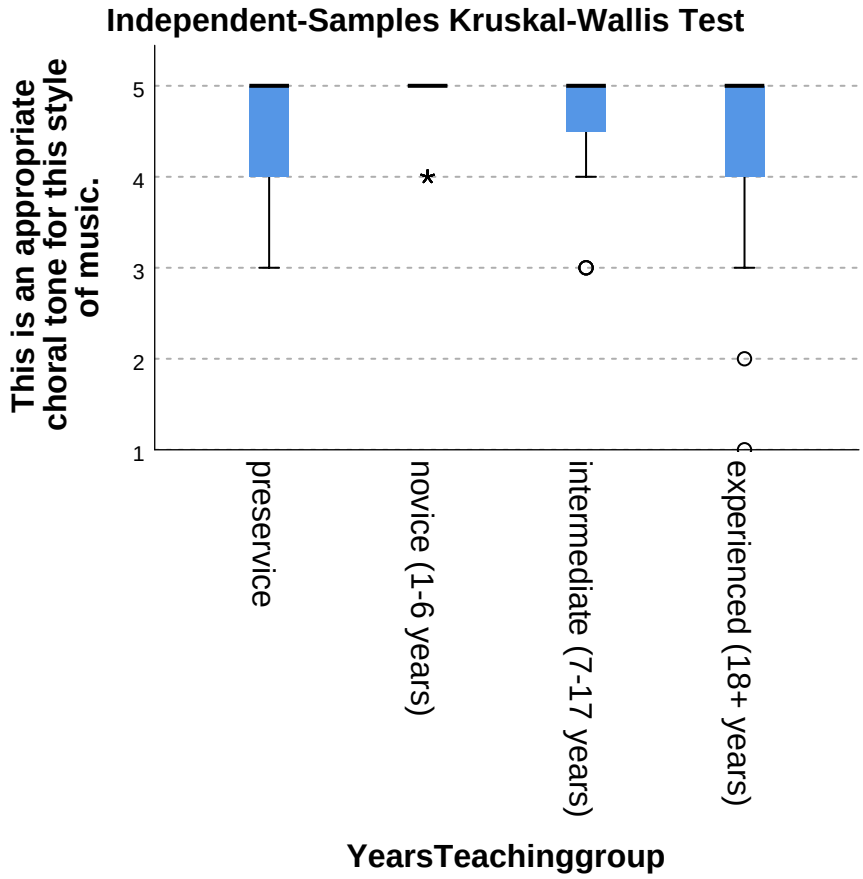
This is an appropriate choral tone for this style of music. across Year sTeachinggroup

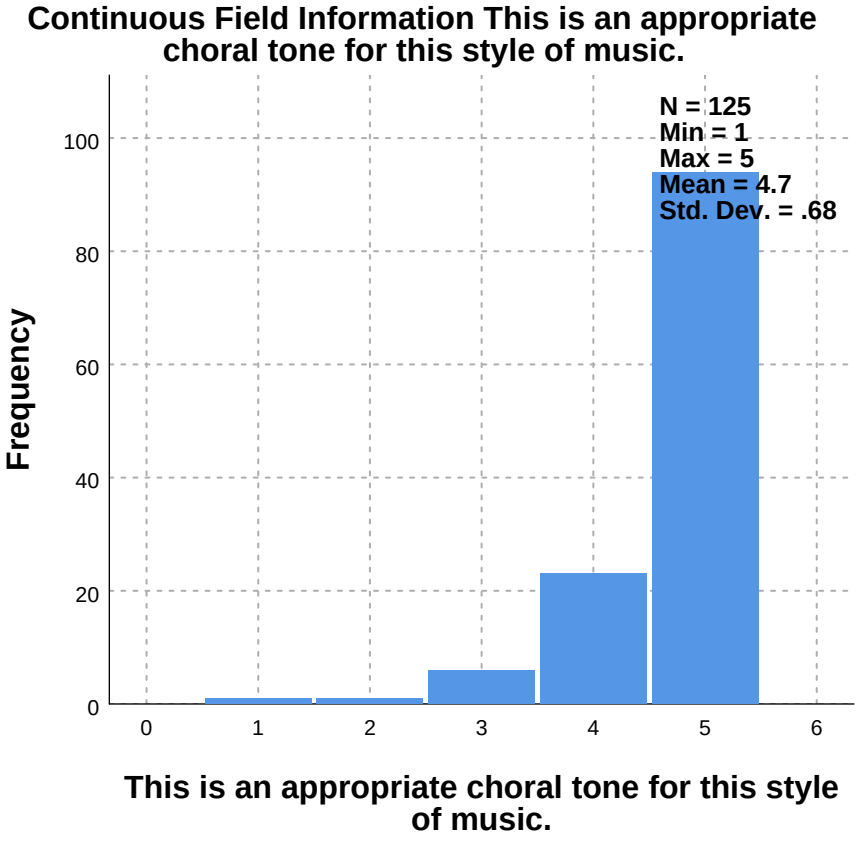
Independent-Samples Kruskal-Wallis Test Summary

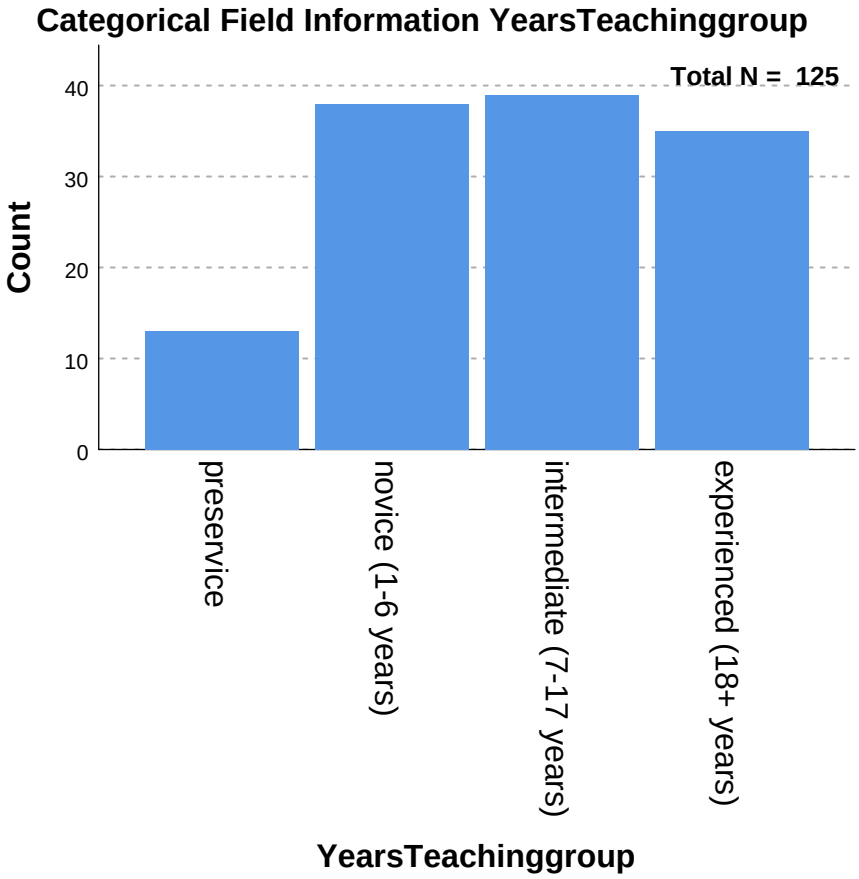
Total N	125
Test Statistic	1.885[a,b]
Degree Of Freedom	3
Asymptotic Sig.(2-sided test)	.597

a. The test statistic is adjusted for ties.

b. Multiple comparisons are not performed because the overall test does not show significant differences across samples.




Continuous Field Information This is an appropriate choral tone for this style of music.
N = 125
Min = 1
Max = 5
Mean = 4.7
Std. Dev. = .68
Frequency
100
80
60
40
20
0
0
1
2
3
4
5
6
This is an appropriate choral tone for this style of music.




```
 *Nonparametric Tests: Independent Samples.
NPTESTS
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  /CRITERIA ALPHA=0.05  CILEVEL=95.
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Nonparametric Tests

Notes

Output Created		24-JAN-2020 12:32:16
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Hypothesis Test Summary

	Null Hypothesis	Test	Sig.
1	The distribution of This is an appropriate choral tone for this style of music. is the same across categories of YearsTeachinggroup.	Independent-Samples Kruskal-Wallis Test	.003

Hypothesis Test Summary

	Decision
1	Reject the null hypothesis.

Asymptotic significances are displayed. The significance level is .050.

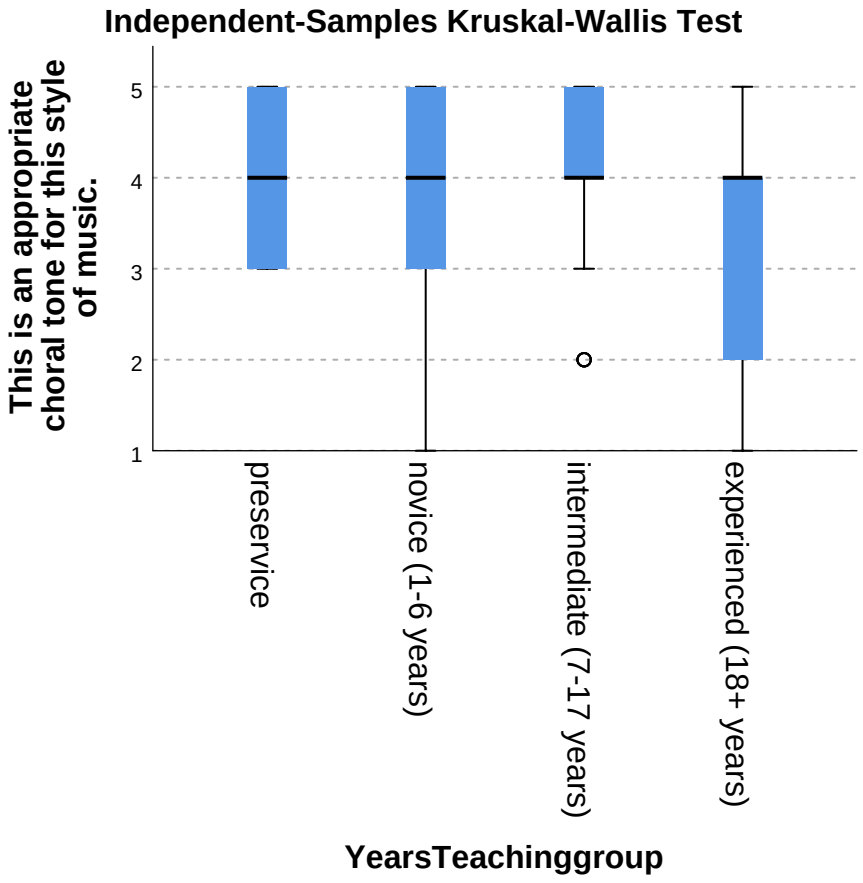
Independent-Samples Kruskal-Wallis Test

This is an appropriate choral tone for this style of music. across Year sTeachinggroup

Independent-Samples Kruskal-Wallis Test Summary

Total N	125
Test Statistic	14.045[a]
Degree Of Freedom	3
Asymptotic Sig.(2-sided test)	.003

a. The test statistic is adjusted for ties.



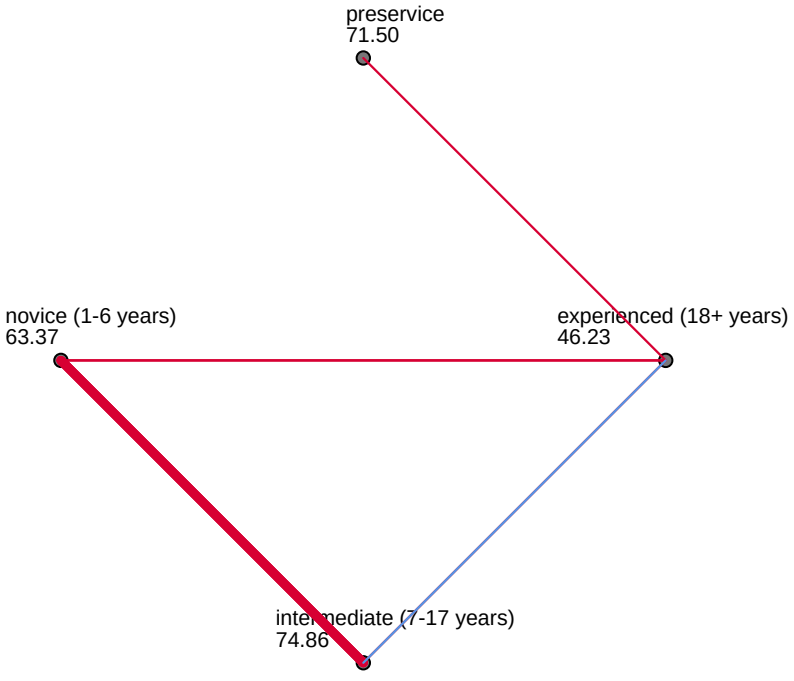
Pairwise Comparisons of YearsTeachinggroup

Sample 1-Sample 2	Test Statistic	Std. Error	Std. Test Statistic	Sig.	Adj. Sig.[a]
experienced (18+ years)-novice (1-6 years)	17.140	7.975	2.149	.032	.190
experienced (18+ years)-preservice	25.271	11.056	2.286	.022	.134
experienced (18+ years)-intermediate (7-17 years)	28.630	7.926	3.612	.000	.002
novice (1-6 years)-preservice	8.132	10.937	.743	.457	1.000
novice (1-6 years)-intermediate (7-17 years)	-11.491	7.759	-1.481	.139	.832
preservice-intermediate (7-17 years)	-3.359	10.901	-.308	.758	1.000

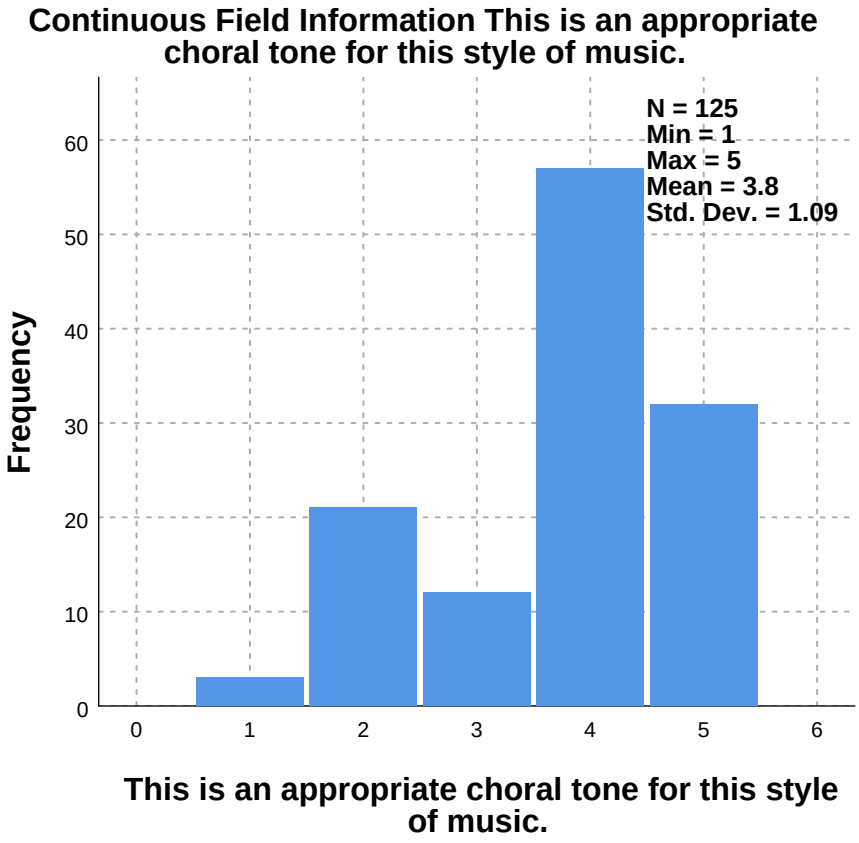
Each row tests the null hypothesis that the Sample 1 and Sample 2 distributions are the same. Asymptotic significances (2-sided tests) are displayed. The significance level is .05.

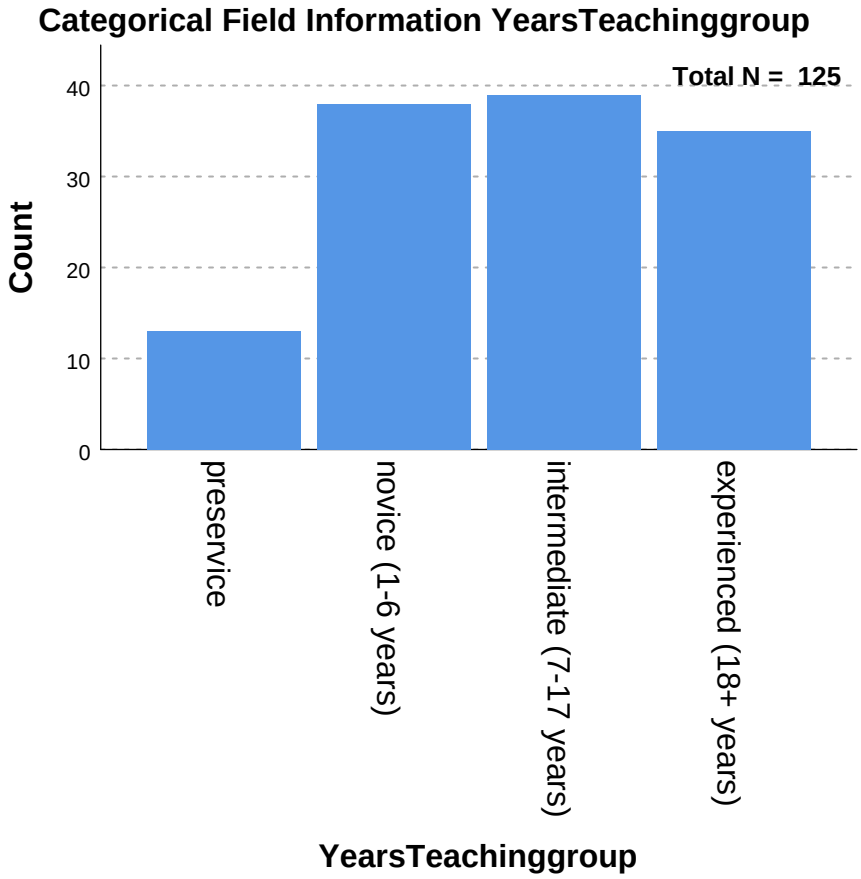
a. Significance values have been adjusted by the Bonferroni correction for multiple tests.

Pairwise Comparisons of YearsTeachinggroup



Each node shows the sample average rank of YearsTeachinggroup.


Continuous Field Information This is an appropriate choral tone for this style of music.
N = 125
Min = 1
Max = 5
Mean = 3.8
Std. Dev. = 1.09
Frequency
60
50
40
30
20
10
0
0
1
2
3
4
5
6
This is an appropriate choral tone for this style of music.




```
 *Nonparametric Tests: Independent Samples.
NPTESTS
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Nonparametric Tests

Notes

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Resources	Processor Time	00:00:00.80
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Hypothesis Test Summary

	Null Hypothesis	Test	Sig.
1	The distribution of This is an appropriate choral tone for this style of music. is the same across categories of YearsTeachinggroup.	Independent-Samples Kruskal-Wallis Test	.311

Hypothesis Test Summary

	Decision
1	Retain the null hypothesis.

Asymptotic significances are displayed. The significance level is .050.

Independent-Samples Kruskal-Wallis Test

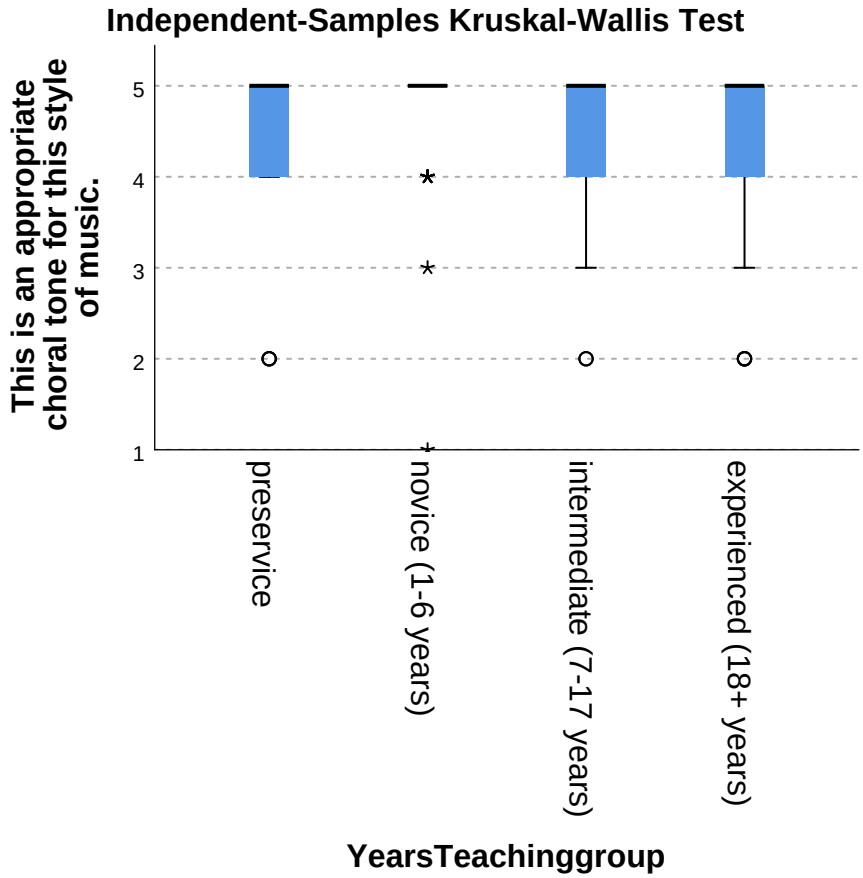
This is an appropriate choral tone for this style of music. across Year sTeachinggroup

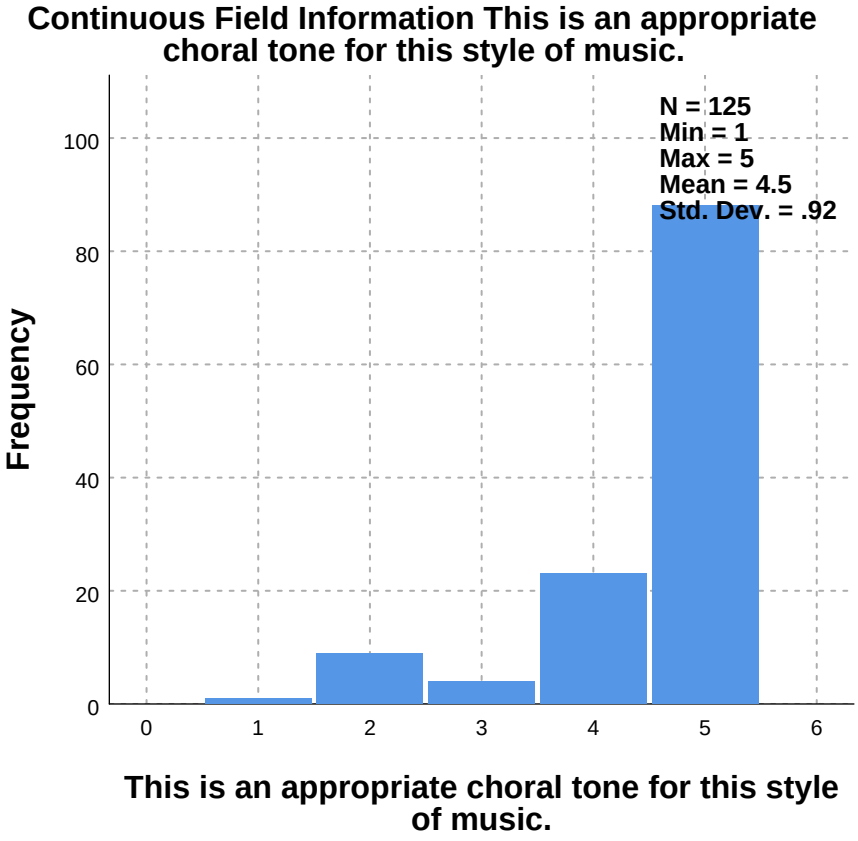
Independent-Samples Kruskal-Wallis Test Summary

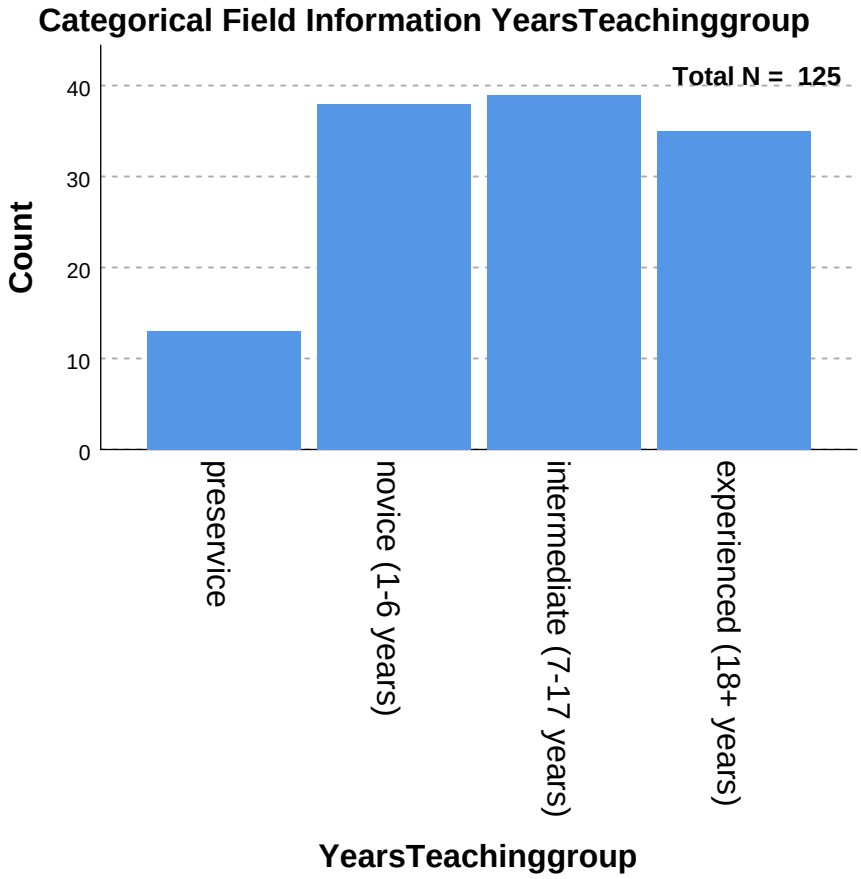
Total N	125
Test Statistic	3.575[a,b]
Degree Of Freedom	3
Asymptotic Sig.(2-sided test)	.311

a. The test statistic is adjusted for ties.

b. Multiple comparisons are not performed because the overall test does not show significant differences across samples.




Continuous Field Information This is an appropriate choral tone for this style of music.
N = 125
Min = 1
Max = 5
Mean = 4.5
Std. Dev. = .92
Frequency
100
80
60
40
20
0
0
1
2
3
4
5
6
This is an appropriate choral tone for this style of music.




```
 *Nonparametric Tests: Independent Samples.
NPTESTS
  /INDEPENDENT TEST (S5Q5) GROUP (YearsTeachinggroup)
  /MISSING SCOPE=ANALYSIS USERMISSING=EXCLUDE
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```

Nonparametric Tests

Notes

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Hypothesis Test Summary

	Null Hypothesis	Test	Sig.
1	The distribution of This is an appropriate choral tone for this style of music. is the same across categories of YearsTeachinggroup.	Independent-Samples Kruskal-Wallis Test	.202

Hypothesis Test Summary

	Decision
1	Retain the null hypothesis.

Asymptotic significances are displayed. The significance level is .050.

Independent-Samples Kruskal-Wallis Test

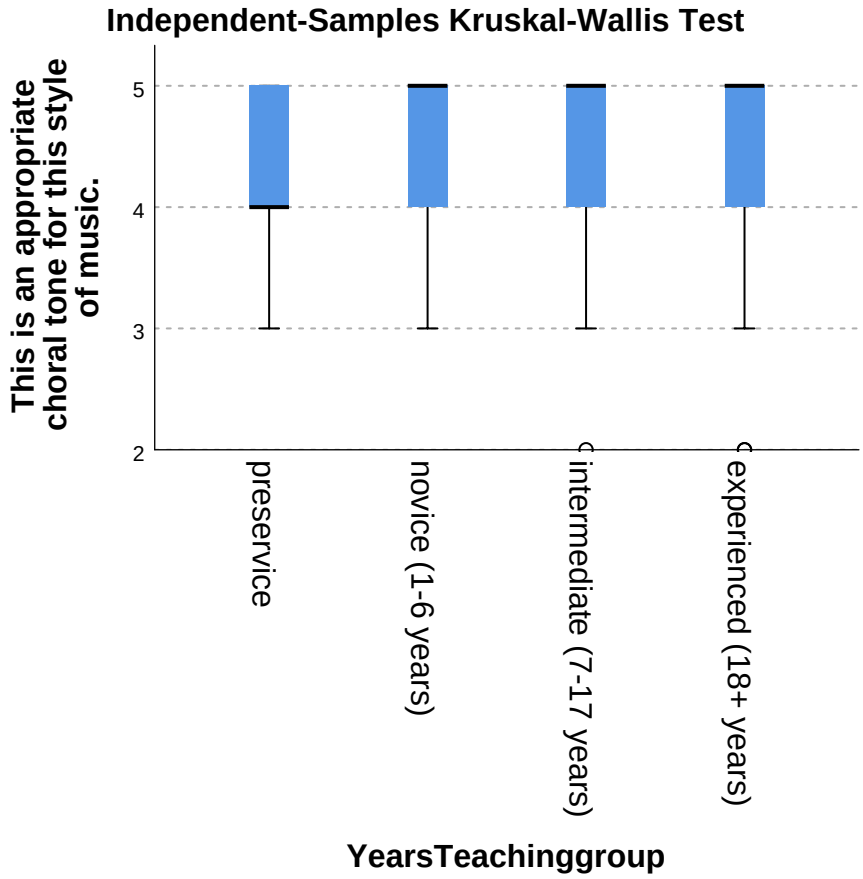
This is an appropriate choral tone for this style of music. across YearsTeachinggroup

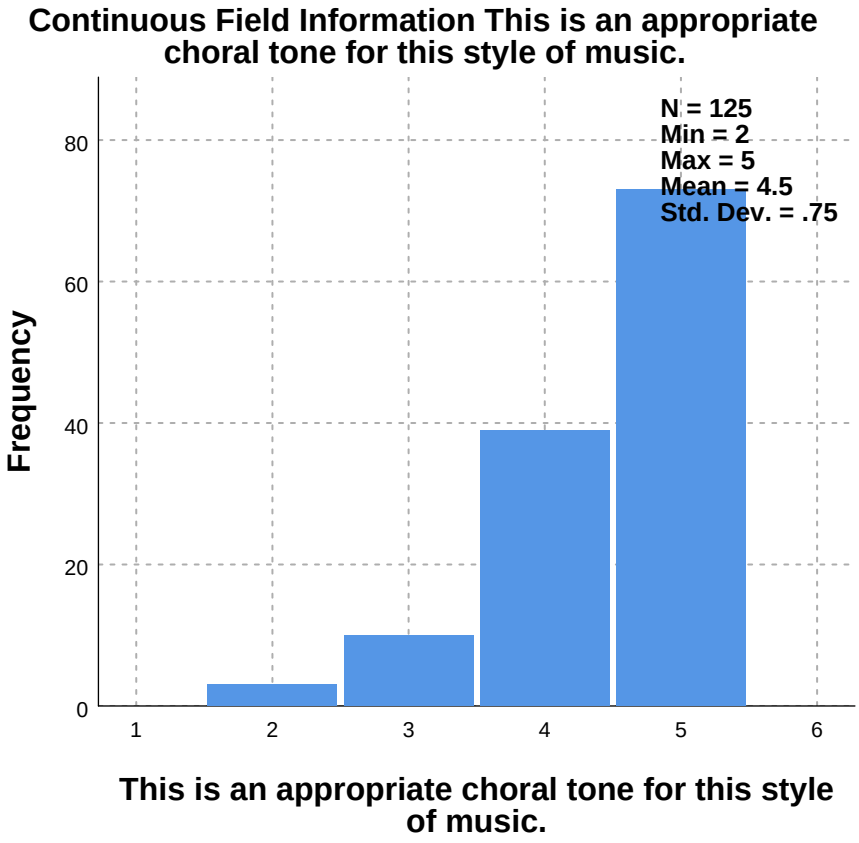
Independent-Samples Kruskal-Wallis Test Summary

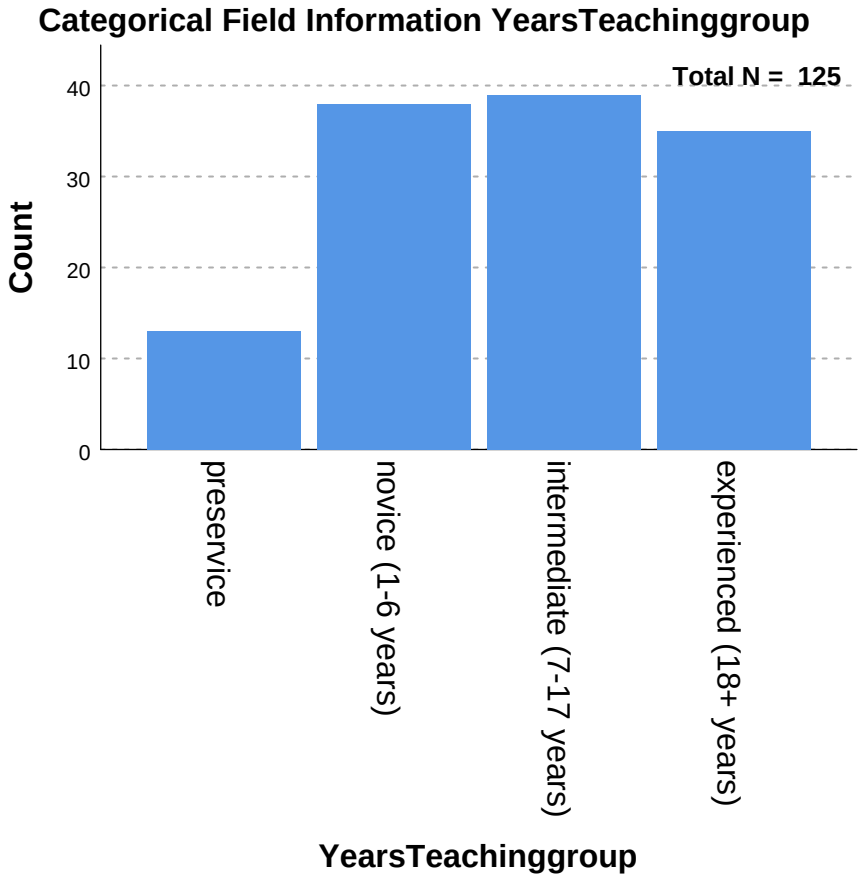
Total N	125
Test Statistic	4.613[a,b]
Degree Of Freedom	3
Asymptotic Sig.(2-sided test)	.202

a. The test statistic is adjusted for ties.

b. Multiple comparisons are not performed because the overall test does not show significant differences across samples.




Continuous Field Information This is an appropriate choral tone for this style of music.
N = 125
Min = 2
Max = 5
Mean = 4.5
Std. Dev. = .75
Frequency
80
60
40
20
0
1
2
3
4
5
6
This is an appropriate choral tone for this style of music.




```
 *Nonparametric Tests: Independent Samples.
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```

Nonparametric Tests

Notes

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Resources	Processor Time	00:00:00.70
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Hypothesis Test Summary

	Null Hypothesis	Test	Sig.
1	The distribution of This is an appropriate choral tone for this style of music. is the same across categories of YearsTeachinggroup.	Independent-Samples Kruskal-Wallis Test	.052

Hypothesis Test Summary

	Decision
1	Retain the null hypothesis.

Asymptotic significances are displayed. The significance level is .050.

Independent-Samples Kruskal-Wallis Test

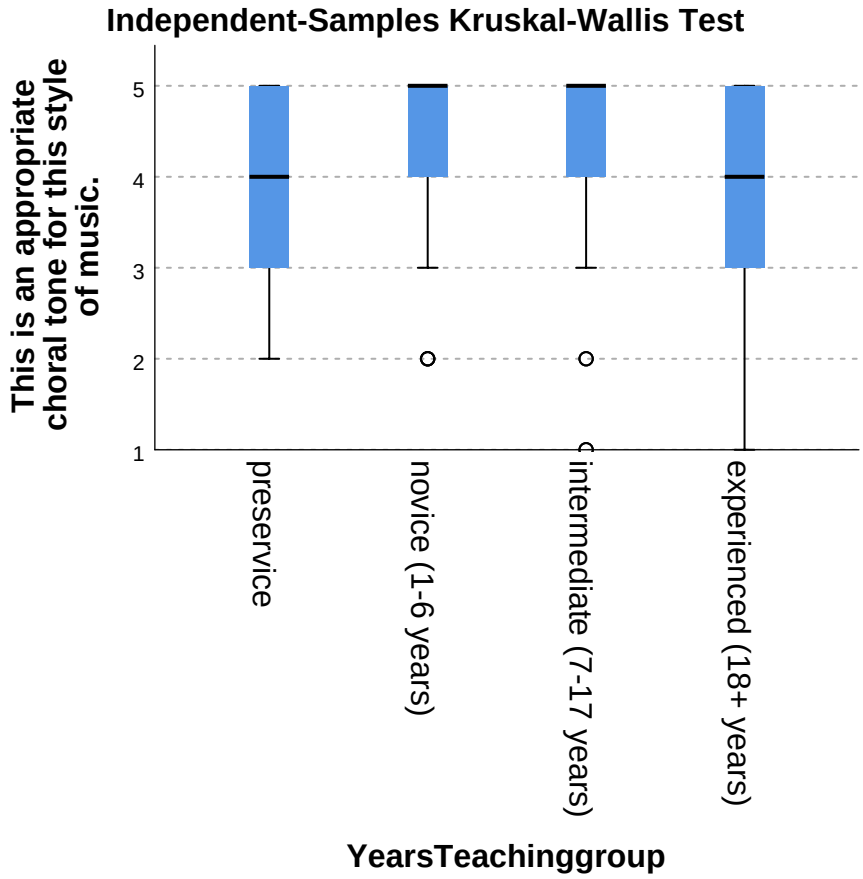
This is an appropriate choral tone for this style of music. across Year sTeachinggroup

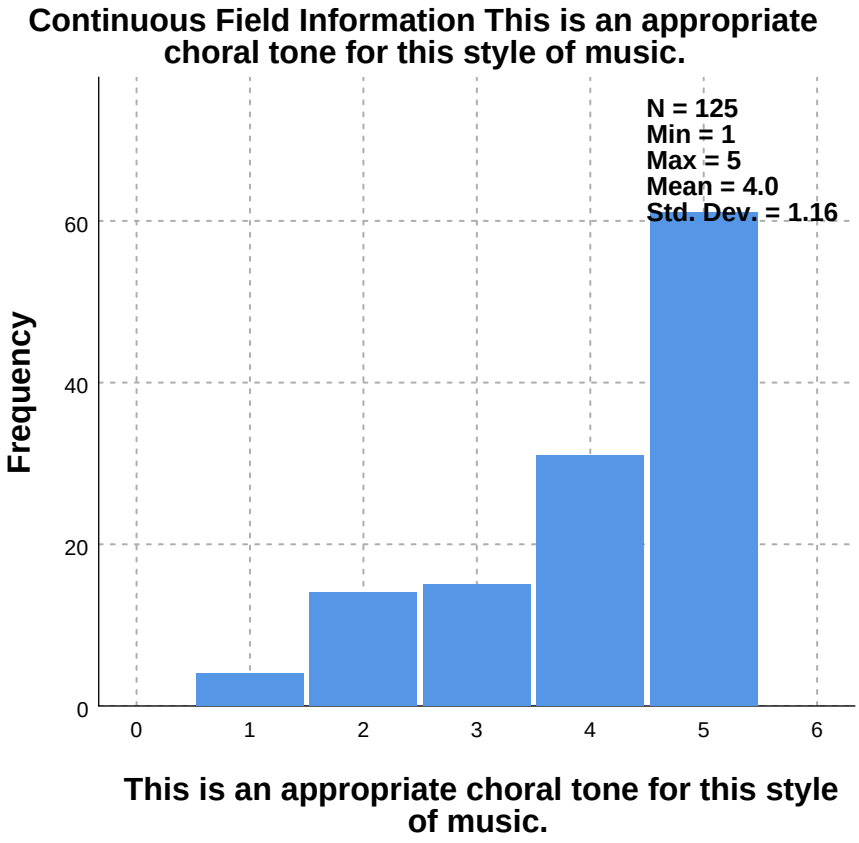
Independent-Samples Kruskal-Wallis Test Summary

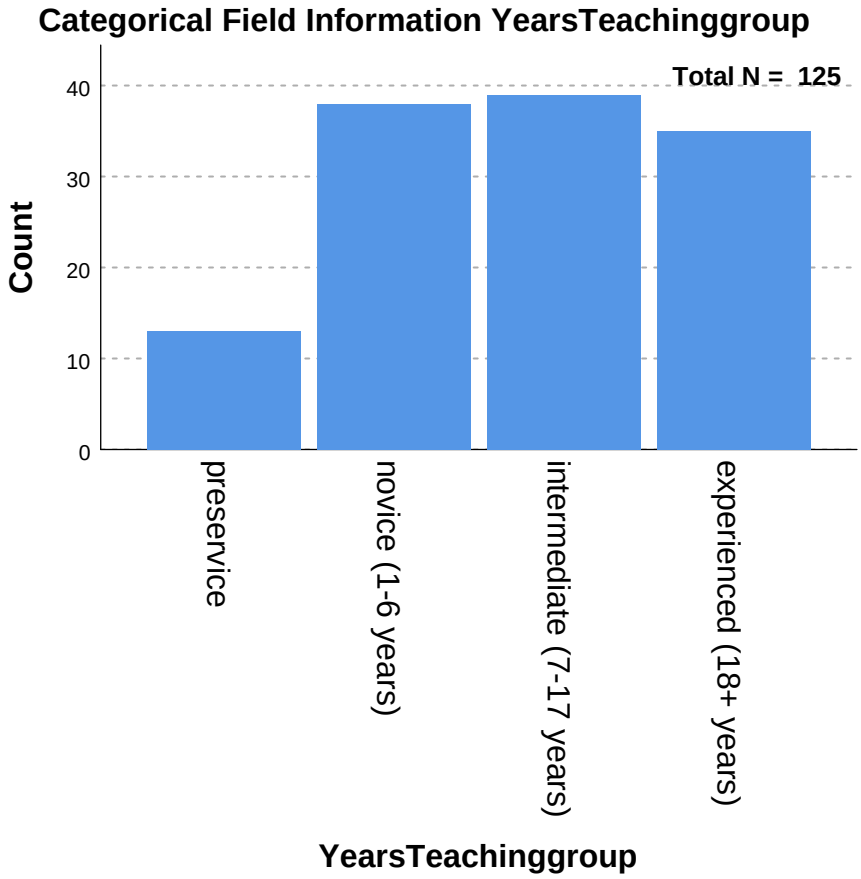
Total N	125
Test Statistic	7.711[a,b]
Degree Of Freedom	3
Asymptotic Sig.(2-sided test)	.052

a. The test statistic is adjusted for ties.

b. Multiple comparisons are not performed because the overall test does not show significant differences across samples.




Continuous Field Information This is an appropriate choral tone for this style of music.
N = 125
Min = 1
Max = 5
Mean = 4.0
Std. Dev. = 1.16
Frequency
60
40
20
0
0
1
2
3
4
5
6
This is an appropriate choral tone for this style of music.




```
 *Nonparametric Tests: Independent Samples.
NPTESTS
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Nonparametric Tests

Notes

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Resources	Processor Time	00:00:00.77
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Hypothesis Test Summary

	Null Hypothesis	Test	Sig.
1	The distribution of This is an appropriate choral tone for this style of music. is the same across categories of YearsTeachinggroup.	Independent-Samples Kruskal-Wallis Test	.977

Hypothesis Test Summary

	Decision
1	Retain the null hypothesis.

Asymptotic significances are displayed. The significance level is .050.

Independent-Samples Kruskal-Wallis Test

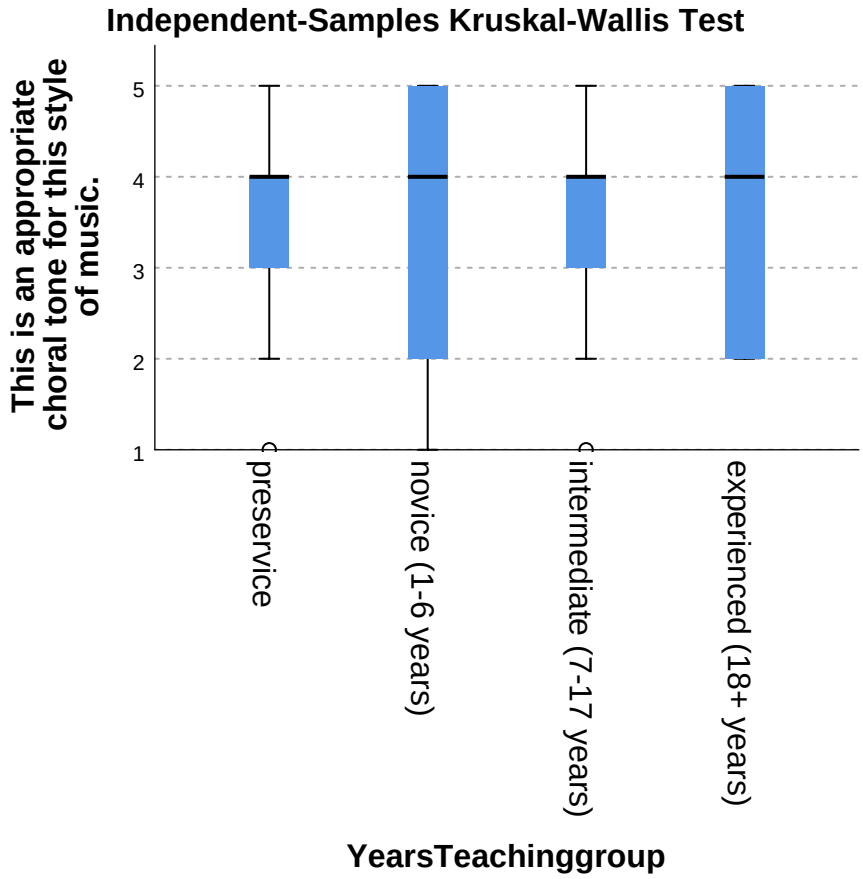
This is an appropriate choral tone for this style of music. across Year sTeachinggroup

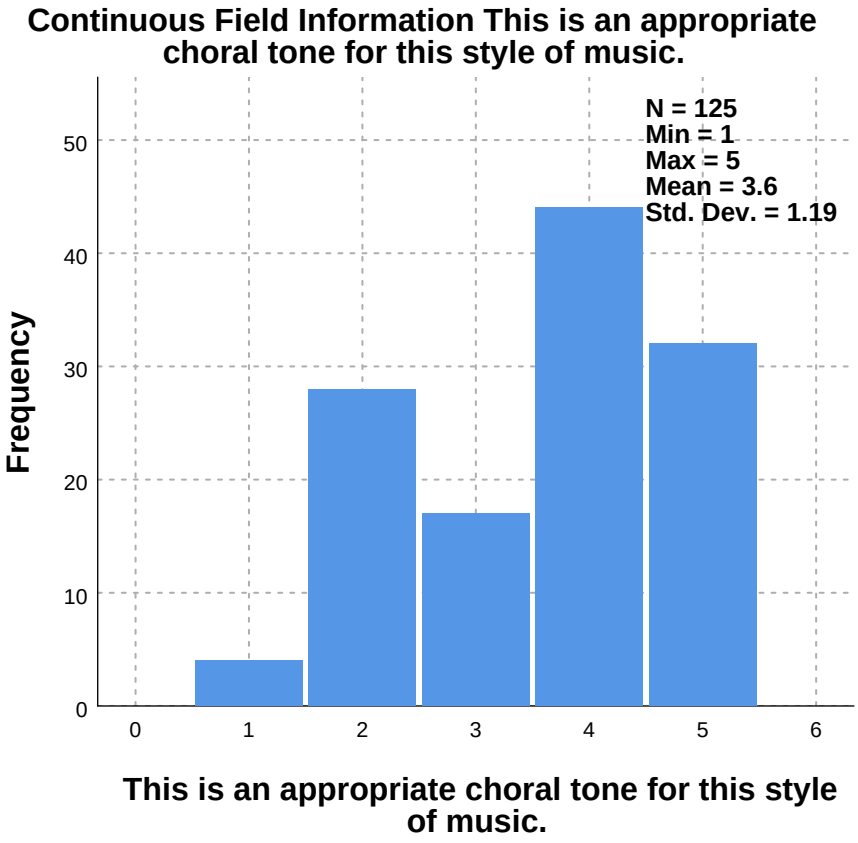
Independent-Samples Kruskal-Wallis Test Summary

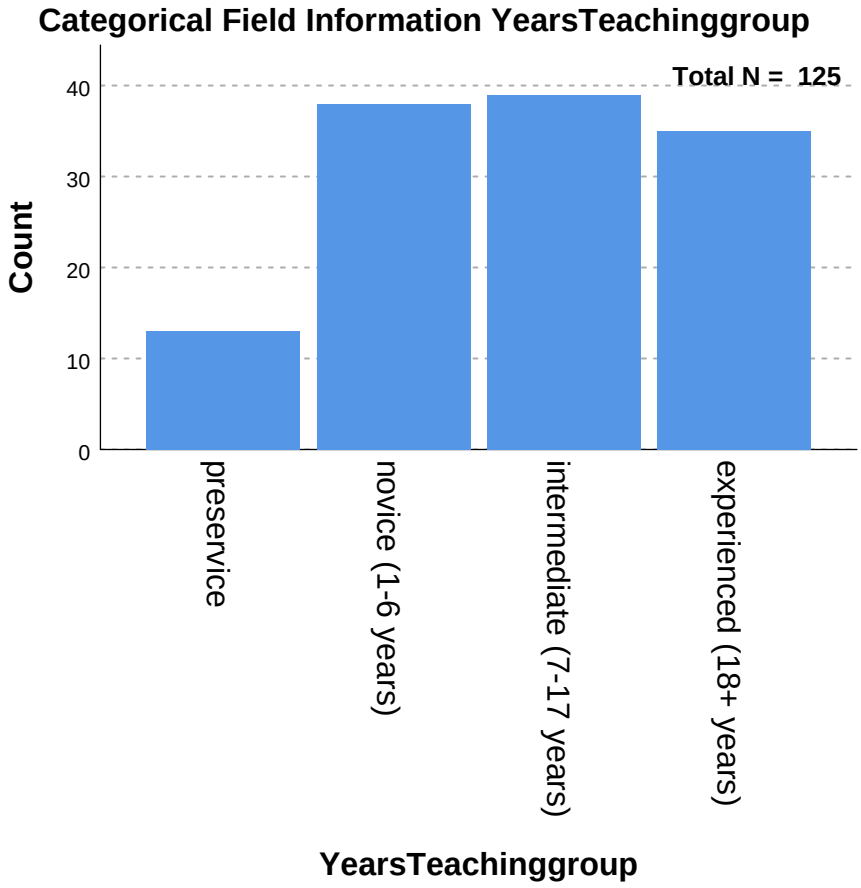
Total N	125
Test Statistic	.201[a,b]
Degree Of Freedom	3
Asymptotic Sig.(2-sided test)	.977

a. The test statistic is adjusted for ties.

b. Multiple comparisons are not performed because the overall test does not show significant differences across samples.




Continuous Field Information This is an appropriate choral tone for this style of music.
N = 125
Min = 1
Max = 5
Mean = 3.6
Std. Dev. = 1.19
Frequency
50
40
30
20
10
0
0
1
2
3
4
5
6
This is an appropriate choral tone for this style of music.




```
 *Nonparametric Tests: Independent Samples.
NPTESTS
  /INDEPENDENT TEST (S8Q5) GROUP (YearsTeachinggroup)
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Nonparametric Tests

Notes

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Resources	Processor Time	00:00:00.94
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Hypothesis Test Summary

	Null Hypothesis	Test	Sig.
1	The distribution of This is an appropriate choral tone for this style of music. is the same across categories of YearsTeachinggroup.	Independent-Samples Kruskal-Wallis Test	.001

Hypothesis Test Summary

	Decision
1	Reject the null hypothesis.

Asymptotic significances are displayed. The significance level is .050.

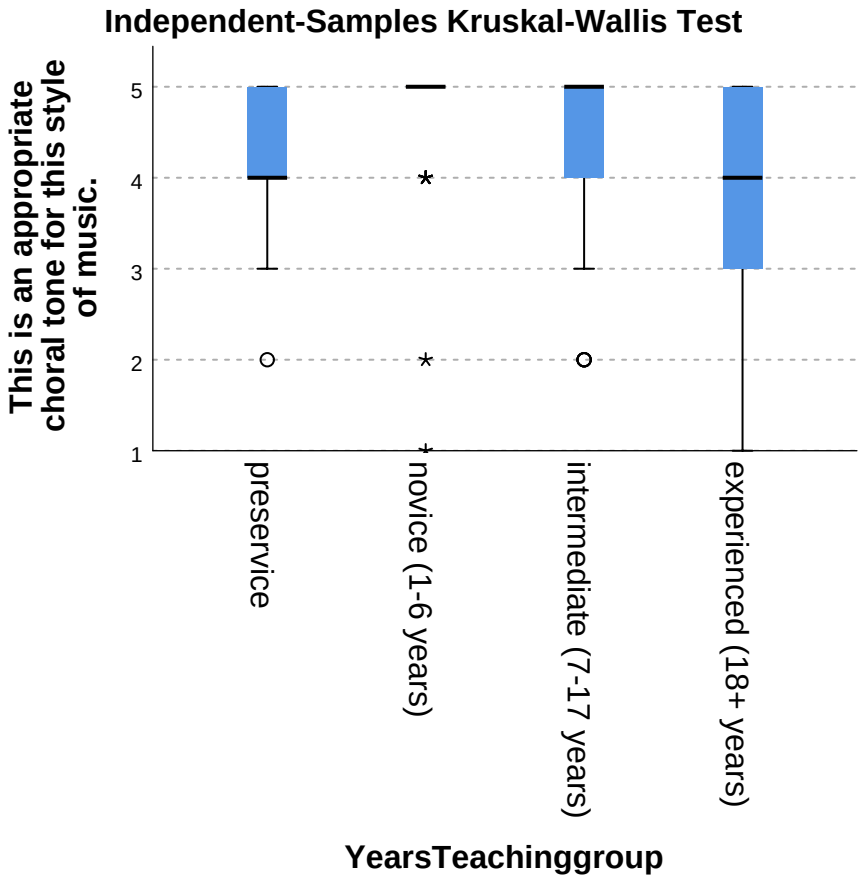
Independent-Samples Kruskal-Wallis Test

This is an appropriate choral tone for this style of music. across Year sTeachinggroup

Independent-Samples Kruskal-Wallis Test Summary

Total N	125
Test Statistic	17.372[a]
Degree Of Freedom	3
Asymptotic Sig.(2-sided test)	.001

a. The test statistic is adjusted for ties.



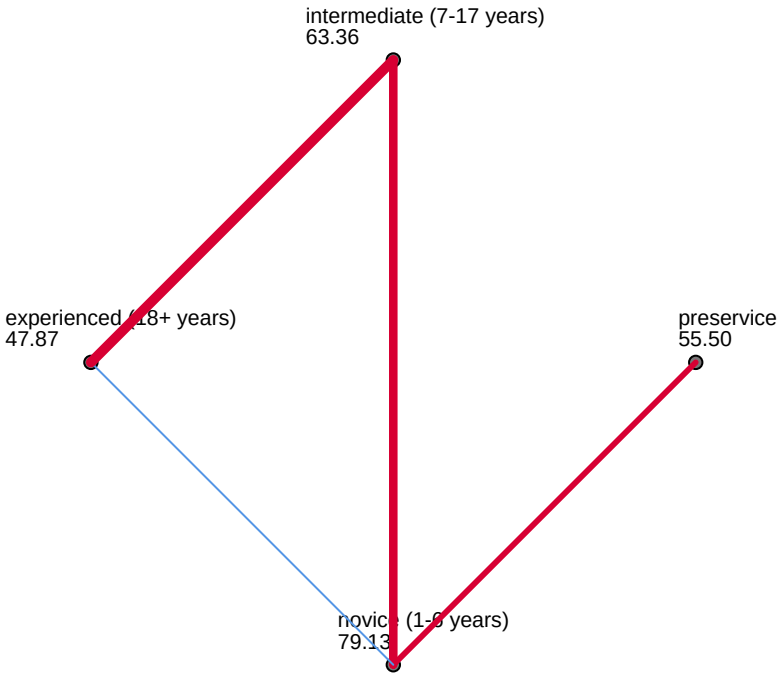
Pairwise Comparisons of YearsTeachinggroup

Sample 1-Sample 2	Test Statistic	Std. Error	Std. Test Statistic	Sig.	Adj. Sig.[a]
experienced (18+ years)-preservice	7.629	10.638	.717	.473	1.000
experienced (18+ years)-intermediate (7-17 years)	15.488	7.626	2.031	.042	.254
experienced (18+ years)-novice (1-6 years)	31.260	7.673	4.074	.000	.000
preservice-intermediate (7-17 years)	-7.859	10.489	-.749	.454	1.000
preservice-novice (1-6 years)	-23.632	10.524	-2.246	.025	.148
intermediate (7-17 years)-novice (1-6 years)	15.773	7.466	2.113	.035	.208

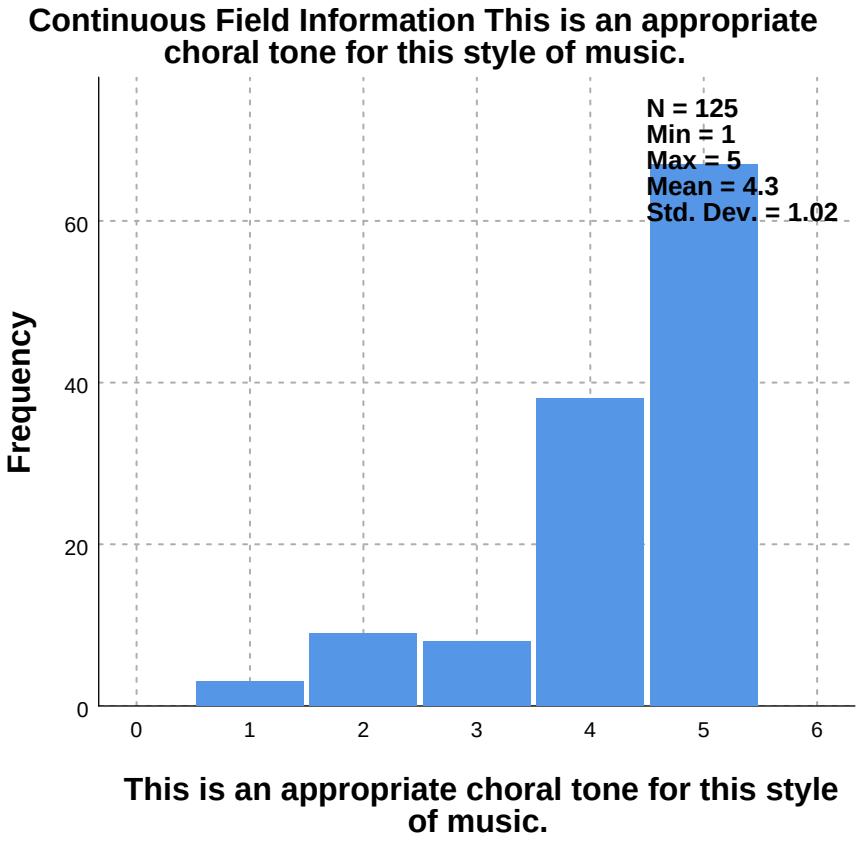
Each row tests the null hypothesis that the Sample 1 and Sample 2 distributions are the same. Asymptotic significances (2-sided tests) are displayed. The significance level is .05.

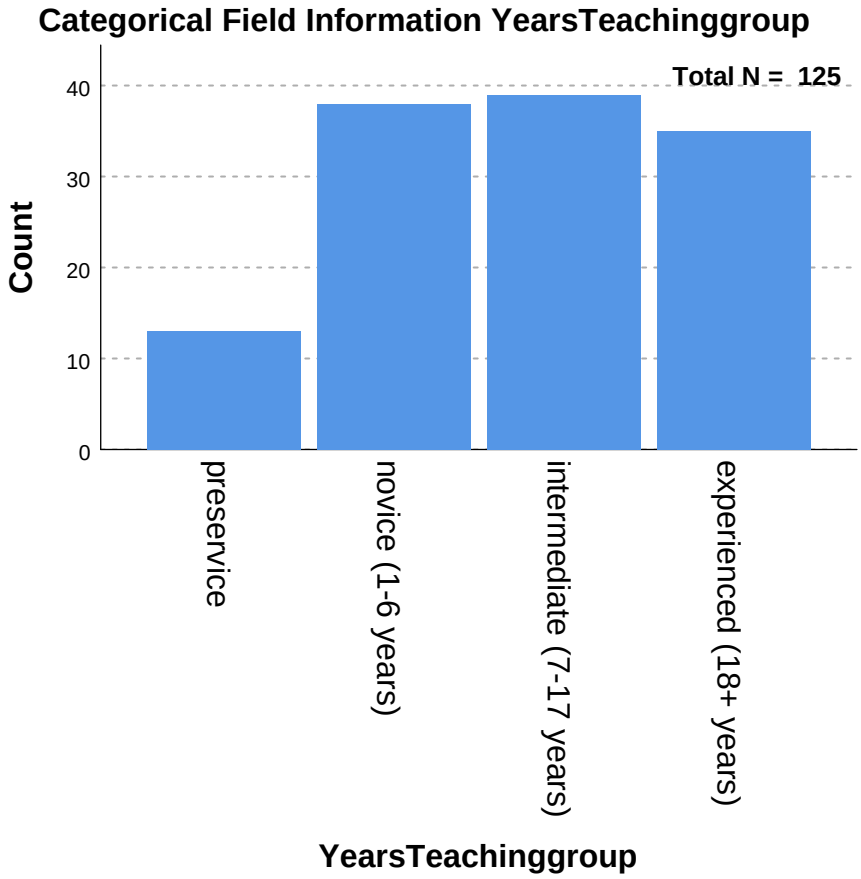
a. Significance values have been adjusted by the Bonferroni correction for multiple tests.

Pairwise Comparisons of YearsTeachinggroup



Each node shows the sample average rank of YearsTeachinggroup.


Continuous Field Information This is an appropriate choral tone for this style of music.
N = 125
Min = 1
Max = 5
Mean = 4.3
Std. Dev. = 1.02
Frequency
0
20
40
60
0
1
2
3
4
5
6
This is an appropriate choral tone for this style of music.




```
 *Nonparametric Tests: Independent Samples.
NPTESTS
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Nonparametric Tests

Notes

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Comments		
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	N of Rows in Working Data File	125
Syntax		NPTESTS /INDEPENDENT TEST (S8Q4 S8Q3 S8Q2) GROUP (YearsTeachinggroup) /MISSING SCOPE=ANALYSIS USERMISSING=EXCLUDE /CRITERIA ALPHA=0.05 CILEVEL=95.
Resources	Processor Time	00:00:02.05
	Elapsed Time	00:00:02.20

Hypothesis Test Summary

	Null Hypothesis	Test	Sig.
1	The distribution of This tone is dark / covered. is the same across categories of YearsTeachinggroup.	Independent-Samples Kruskal-Wallis Test	.019
2	The distribution of The choral tone is bright and/or forward. is the same across categories of YearsTeachinggroup.	Independent-Samples Kruskal-Wallis Test	.065
3	The distribution of The choral tone is pushed / strained. is the same across categories of YearsTeachinggroup.	Independent-Samples Kruskal-Wallis Test	.036

Hypothesis Test Summary

	Decision
1	Reject the null hypothesis.
2	Retain the null hypothesis.
3	Reject the null hypothesis.

Asymptotic significances are displayed. The significance level is .050.

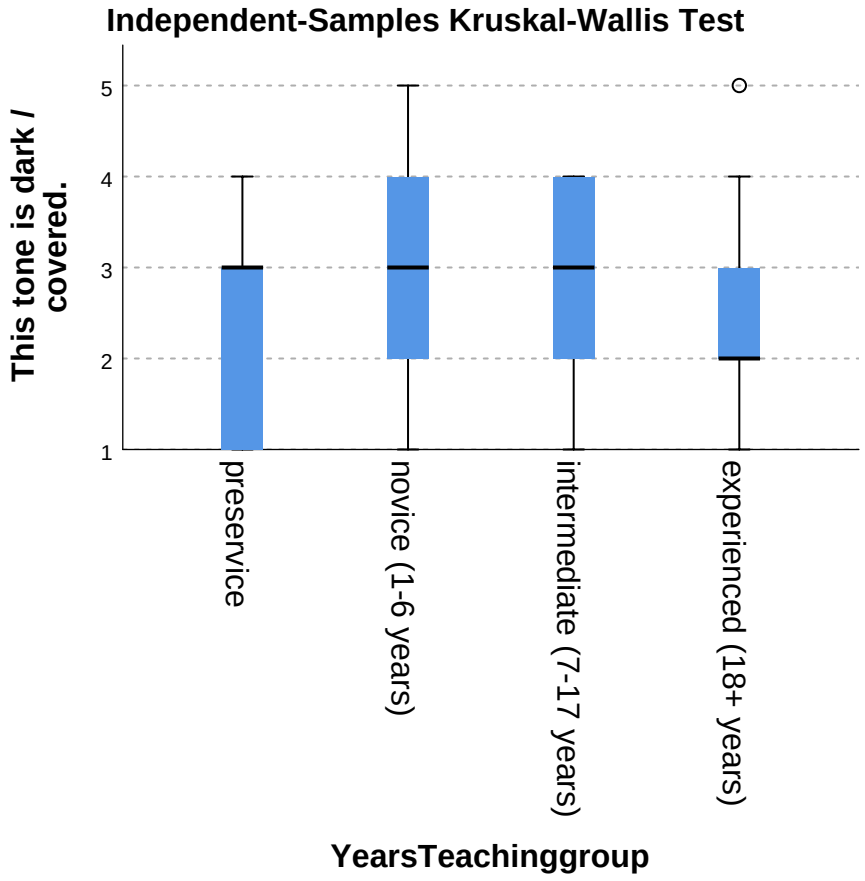
Independent-Samples Kruskal-Wallis Test

This tone is dark / covered. across YearsTeachinggroup

Independent-Samples Kruskal-Wallis Test Summary

Total N	125
Test Statistic	10.003[a]
Degree Of Freedom	3
Asymptotic Sig.(2-sided test)	.019

a. The test statistic is adjusted for ties.



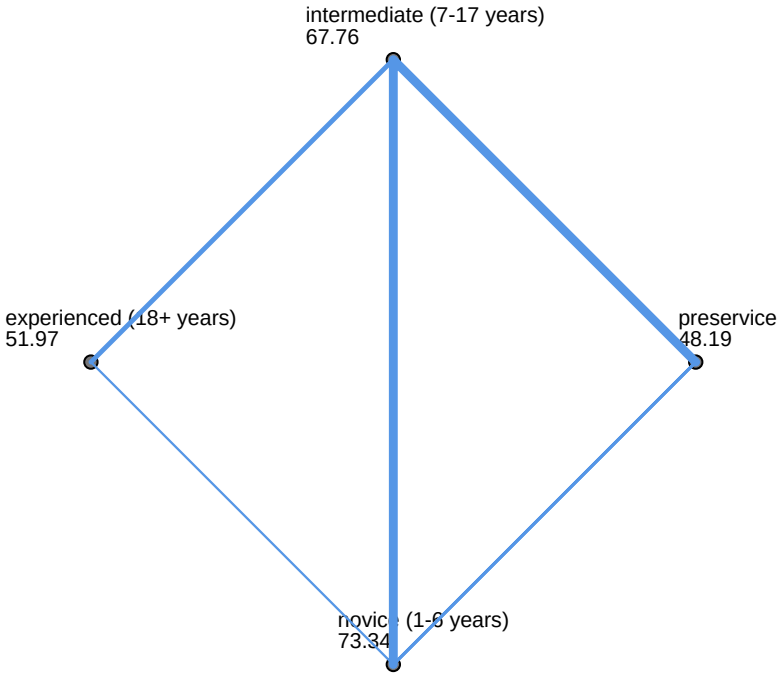
Pairwise Comparisons of YearsTeachinggroup

Sample 1-Sample 2	Test Statistic	Std. Error	Std. Test Statistic	Sig.	Adj. Sig.[a]
preservice-experienced (18+ years)	-3.779	11.275	-.335	.737	1.000
preservice-intermediate (7-17 years)	-19.564	11.118	-1.760	.078	.471
preservice-novice (1-6 years)	-25.150	11.154	-2.255	.024	.145
experienced (18+ years)-intermediate (7-17 years)	15.785	8.083	1.953	.051	.305
experienced (18+ years)-novice (1-6 years)	21.371	8.133	2.628	.009	.052
intermediate (7-17 years)-novice (1-6 years)	5.586	7.913	.706	.480	1.000

Each row tests the null hypothesis that the Sample 1 and Sample 2 distributions are the same. Asymptotic significances (2-sided tests) are displayed. The significance level is .05.

a. Significance values have been adjusted by the Bonferroni correction for multiple tests.

Pairwise Comparisons of YearsTeachinggroup



Each node shows the sample average rank of YearsTeachinggroup.

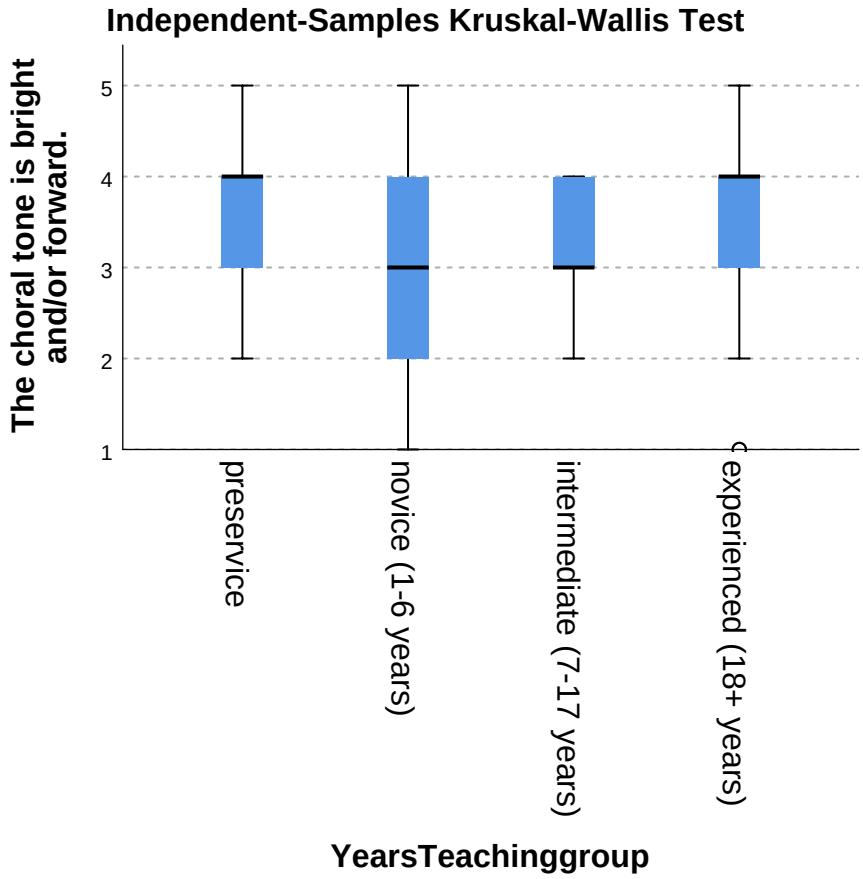
The choral tone is bright and/or forward. across YearsTeachinggroup

Independent-Samples Kruskal-Wallis Test Summary

Total N	125
Test Statistic	7.222[a,b]
Degree Of Freedom	3
Asymptotic Sig.(2-sided test)	.065

a. The test statistic is adjusted for ties.

b. Multiple comparisons are not performed because the overall test does not show significant differences across samples.

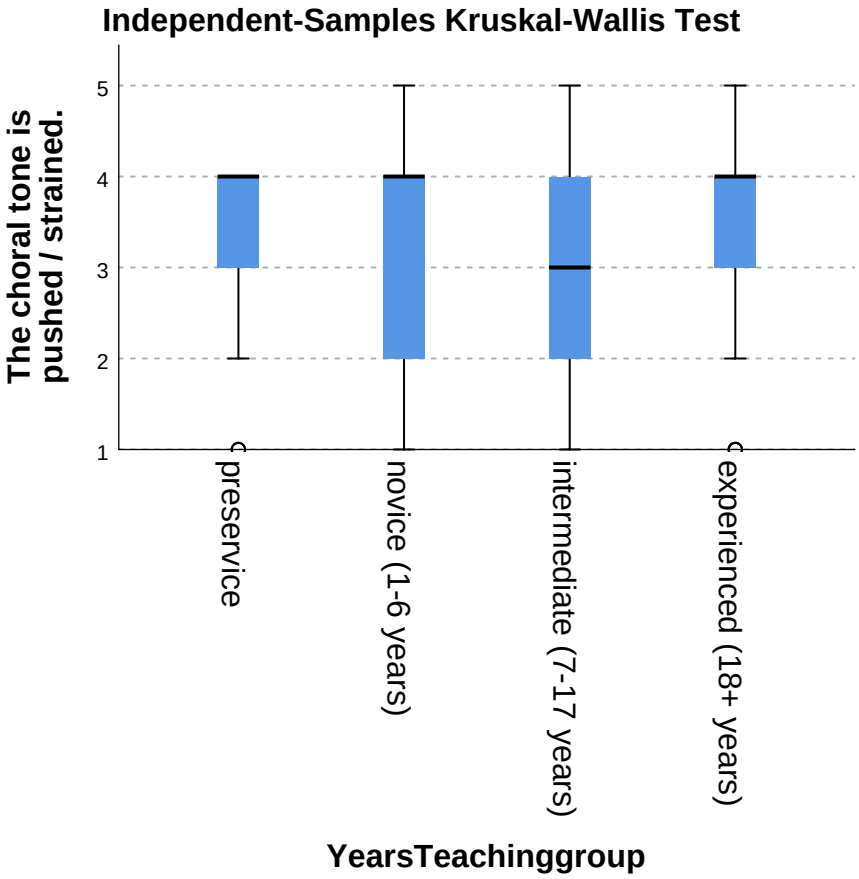


The choral tone is pushed / strained. across YearsTeachinggroup

Independent-Samples Kruskal-Wallis Test Summary

Total N	125
Test Statistic	8.575[a]
Degree Of Freedom	3
Asymptotic Sig.(2-sided test)	.036

a. The test statistic is adjusted for ties.



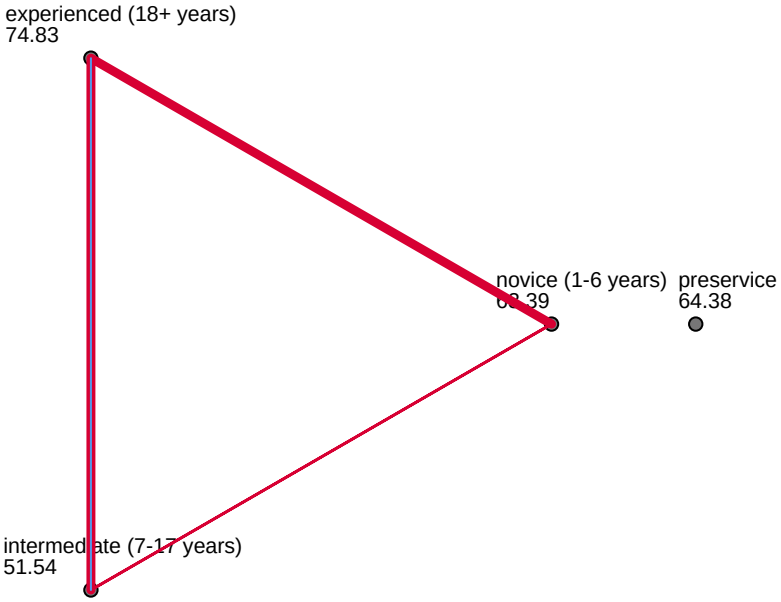
Pairwise Comparisons of YearsTeachinggroup

Sample 1-Sample 2	Test Statistic	Std. Error	Std. Test Statistic	Sig.	Adj. Sig.[a]
intermediate (7-17 years)-novice (1-6 years)	11.856	7.804	1.519	.129	.772
intermediate (7-17 years)-preservice	12.846	10.965	1.172	.241	1.000
intermediate (7-17 years)-experienced (18+ years)	-23.290	7.972	-2.922	.003	.021
novice (1-6 years)-preservice	.990	11.001	.090	.928	1.000
novice (1-6 years)-experienced (18+ years)	-11.434	8.021	-1.425	.154	.924
preservice-experienced (18+ years)	-10.444	11.120	-.939	.348	1.000

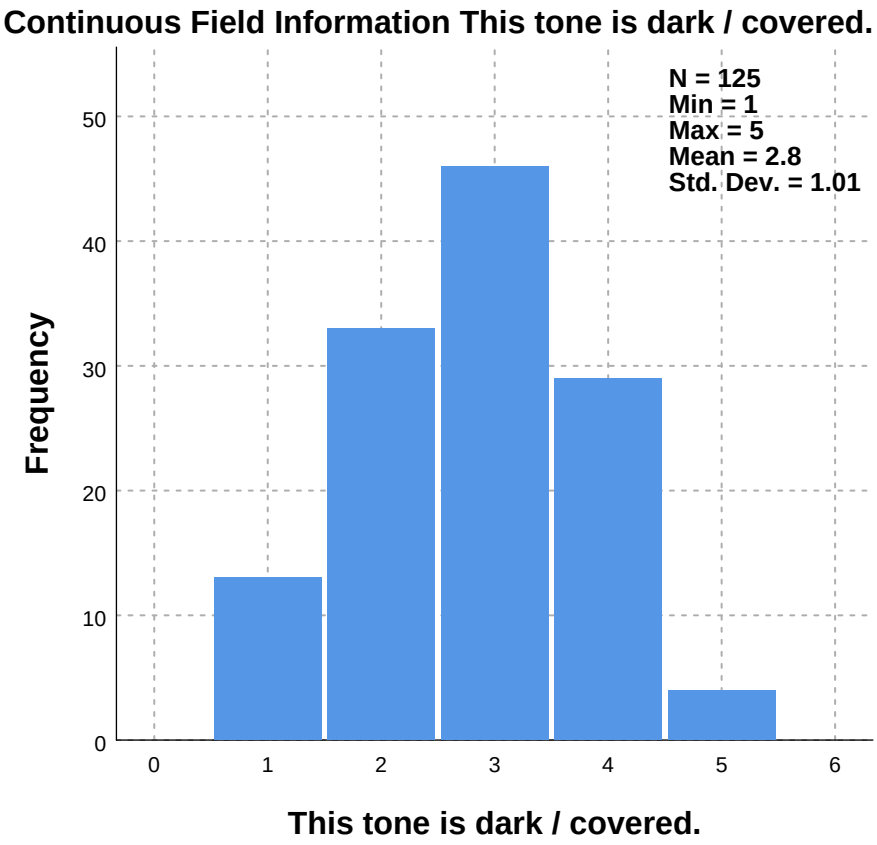
Each row tests the null hypothesis that the Sample 1 and Sample 2 distributions are the same. Asymptotic significances (2-sided tests) are displayed. The significance level is .05.

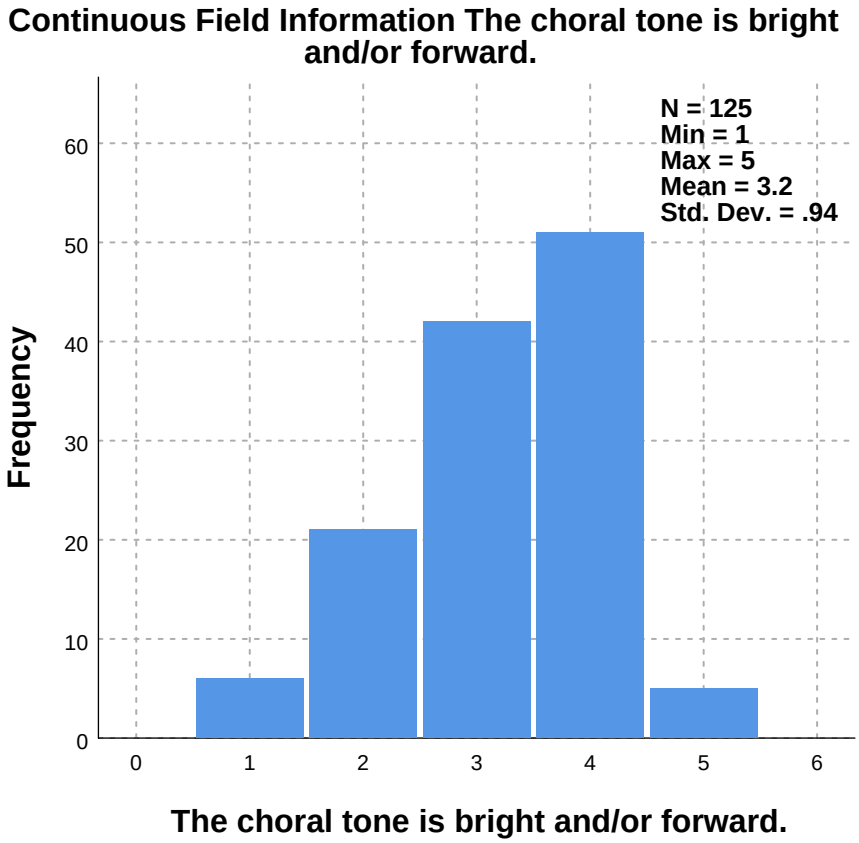
a. Significance values have been adjusted by the Bonferroni correction for multiple tests.

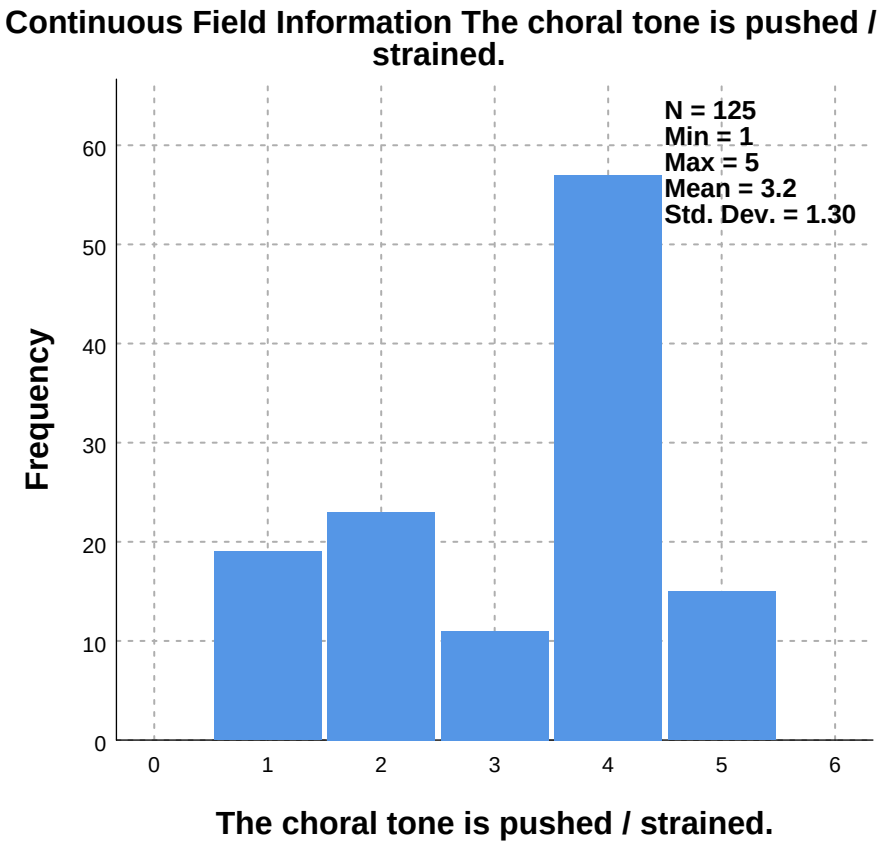
Pairwise Comparisons of YearsTeachinggroup

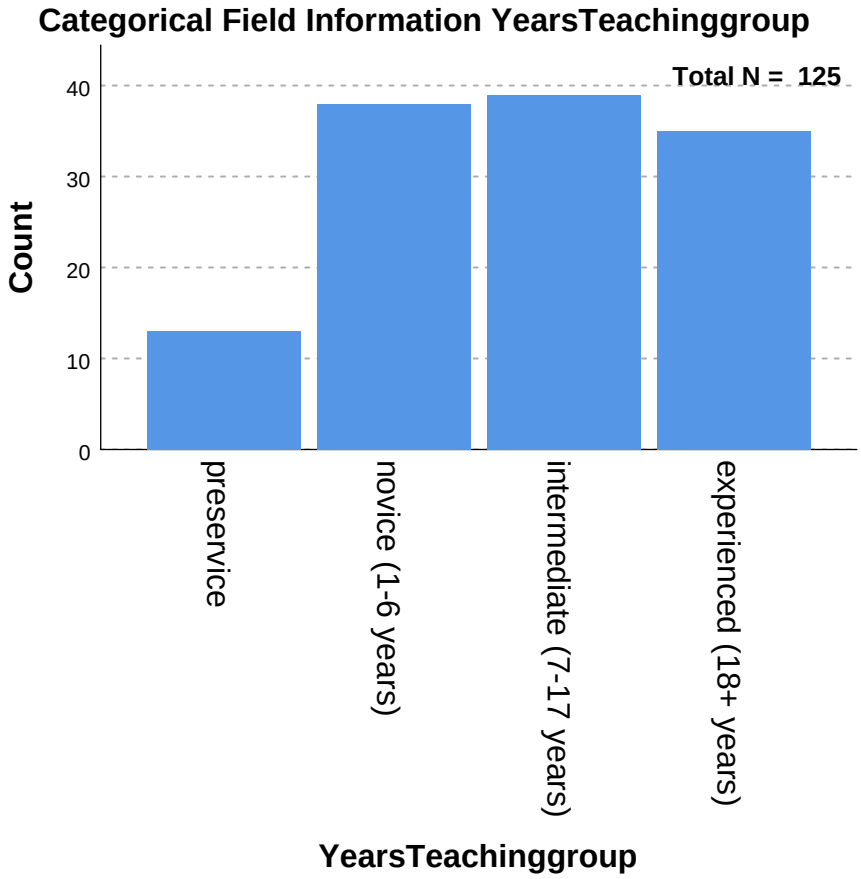


Each node shows the sample average rank of YearsTeachinggroup.


Continuous Field Information This tone is dark / covered.
N = 125
Min = 1
Max = 5
Mean = 2.8
Std. Dev. = 1.01
Frequency
50
40
30
20
10
0
0
1
2
3
4
5
6
This tone is dark / covered.


Continuous Field Information The choral tone is bright and/or forward.
N = 125
Min = 1
Max = 5
Mean = 3.2
Std. Dev. = .94
Frequency
60
50
40
30
20
10
0
0
1
2
3
4
5
6
The choral tone is bright and/or forward.


Continuous Field Information The choral tone is pushed / strained.
N = 125
Min = 1
Max = 5
Mean = 3.2
Std. Dev. = 1.30
Frequency
60
50
40
30
20
10
0
0
1
2
3
4
5
6
The choral tone is pushed / strained.




```
 *Nonparametric Tests: Independent Samples.
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  /CRITERIA ALPHA=0.05  CILEVEL=95.
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Nonparametric Tests

Notes

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	Elapsed Time	00:00:01.76

Hypothesis Test Summary

	Null Hypothesis	Test	Sig.
1	The distribution of The choral tone is pushed / strained. is the same across categories of YearsTeachinggroup.	Independent-Samples Kruskal-Wallis Test	.785
2	The distribution of The choral tone is bright and/or forward. is the same across categories of YearsTeachinggroup.	Independent-Samples Kruskal-Wallis Test	.887
3	The distribution of This tone is dark / covered. is the same across categories of YearsTeachinggroup.	Independent-Samples Kruskal-Wallis Test	.061

Hypothesis Test Summary

	Decision
1	Retain the null hypothesis.
2	Retain the null hypothesis.
3	Retain the null hypothesis.

Asymptotic significances are displayed. The significance level is .050.

Independent-Samples Kruskal-Wallis Test

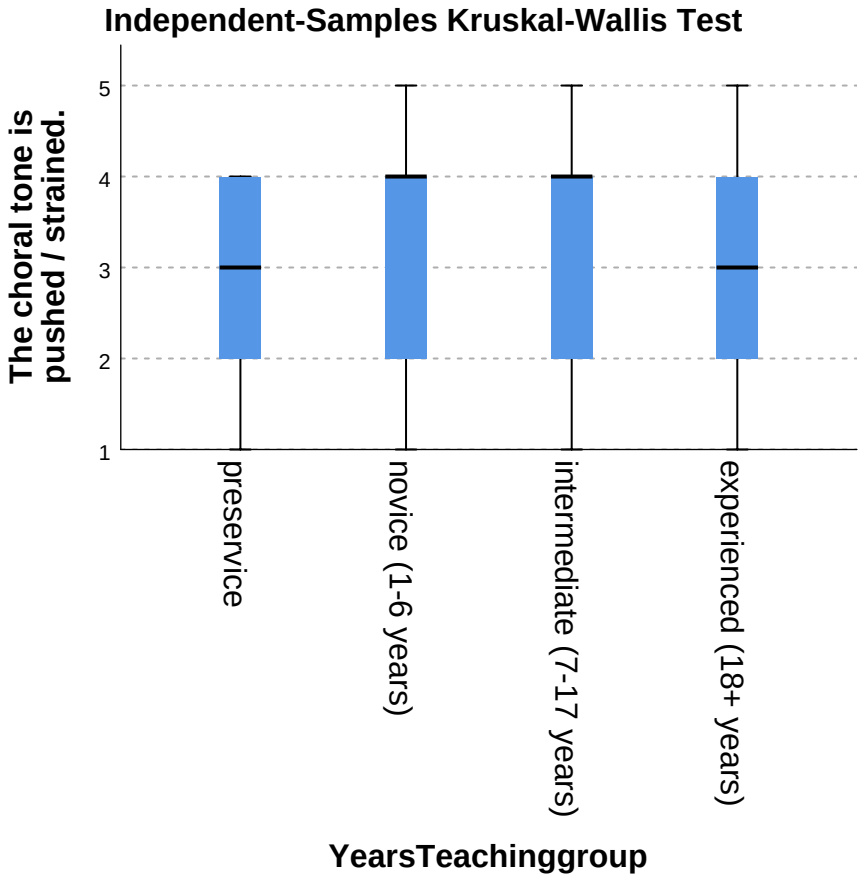
The choral tone is pushed / strained. across YearsTeachinggroup

Independent-Samples Kruskal-Wallis Test Summary

Total N	125
Test Statistic	1.066[a,b]
Degree Of Freedom	3
Asymptotic Sig.(2-sided test)	.785

a. The test statistic is adjusted for ties.

b. Multiple comparisons are not performed because the overall test does not show significant differences across samples.



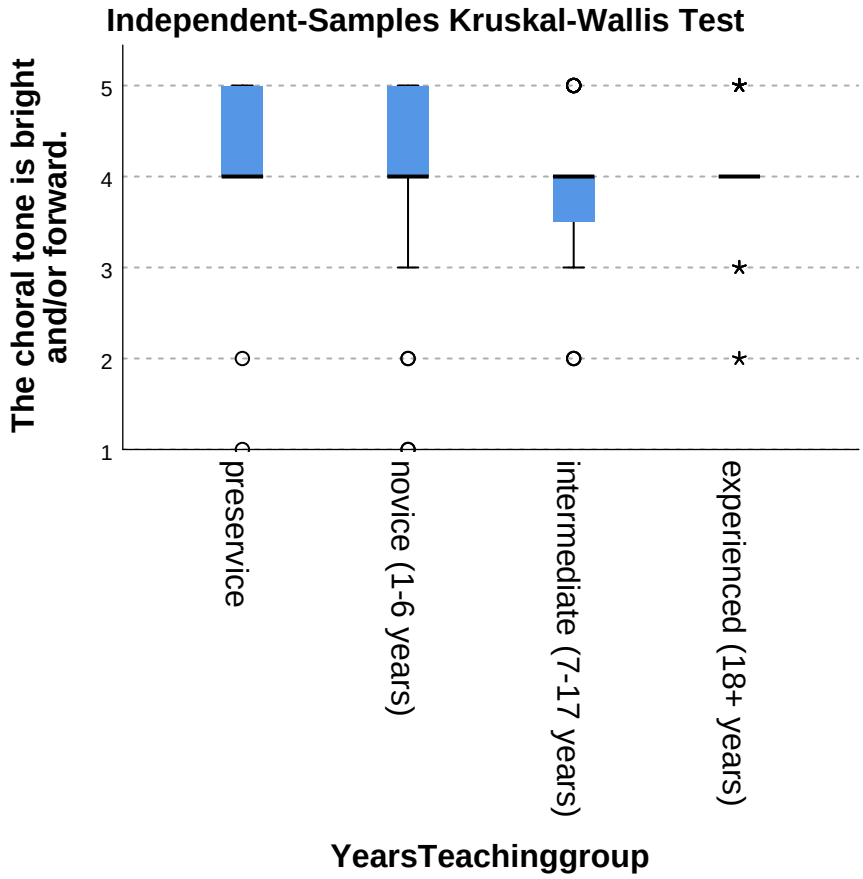
The choral tone is bright and/or forward. across YearsTeachinggroup

Independent-Samples Kruskal-Wallis Test Summary

Total N	125
Test Statistic	.640[a,b]
Degree Of Freedom	3
Asymptotic Sig.(2-sided test)	.887

a. The test statistic is adjusted for ties.

b. Multiple comparisons are not performed because the overall test does not show significant differences across samples.



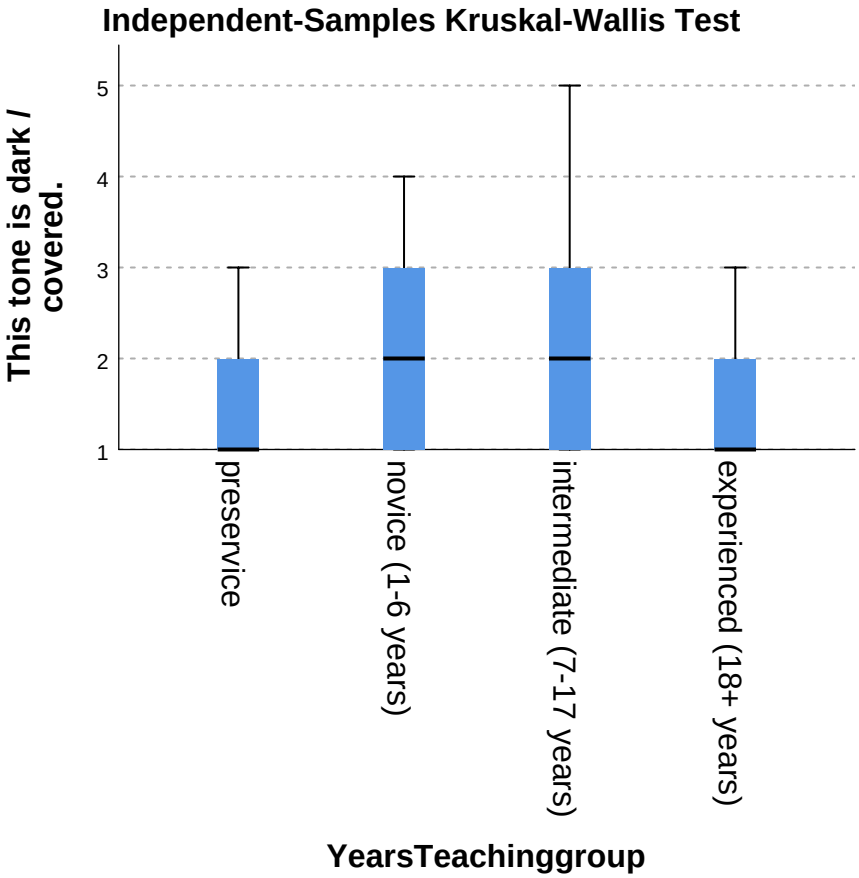
This tone is dark / covered. across YearsTeachinggroup

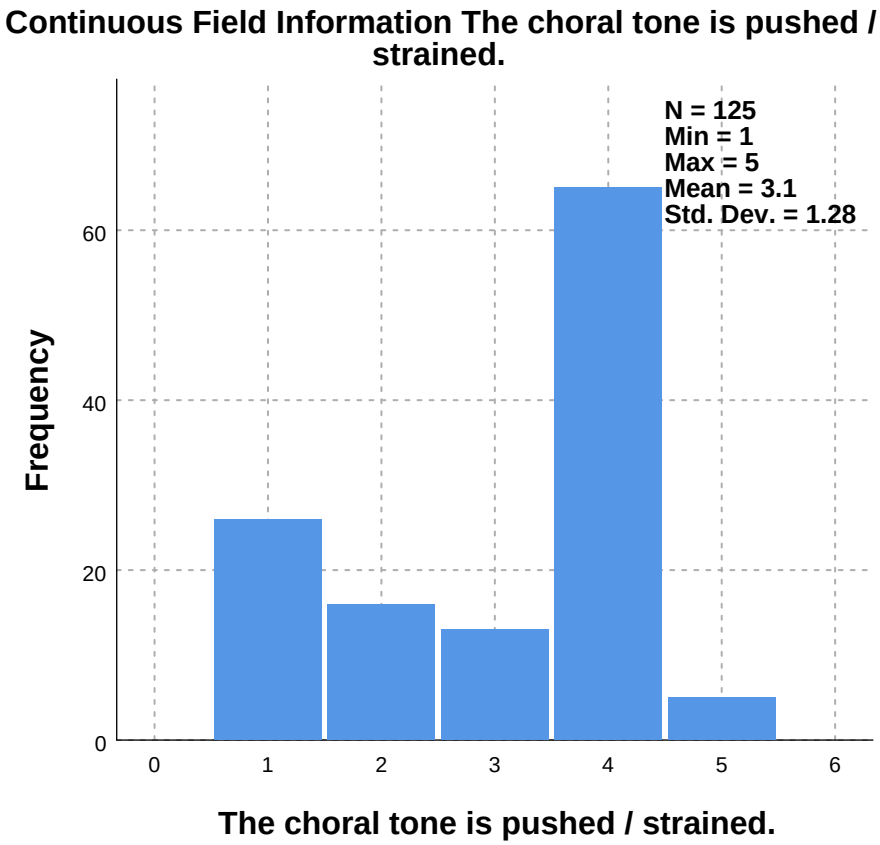
Independent-Samples Kruskal-Wallis Test Summary

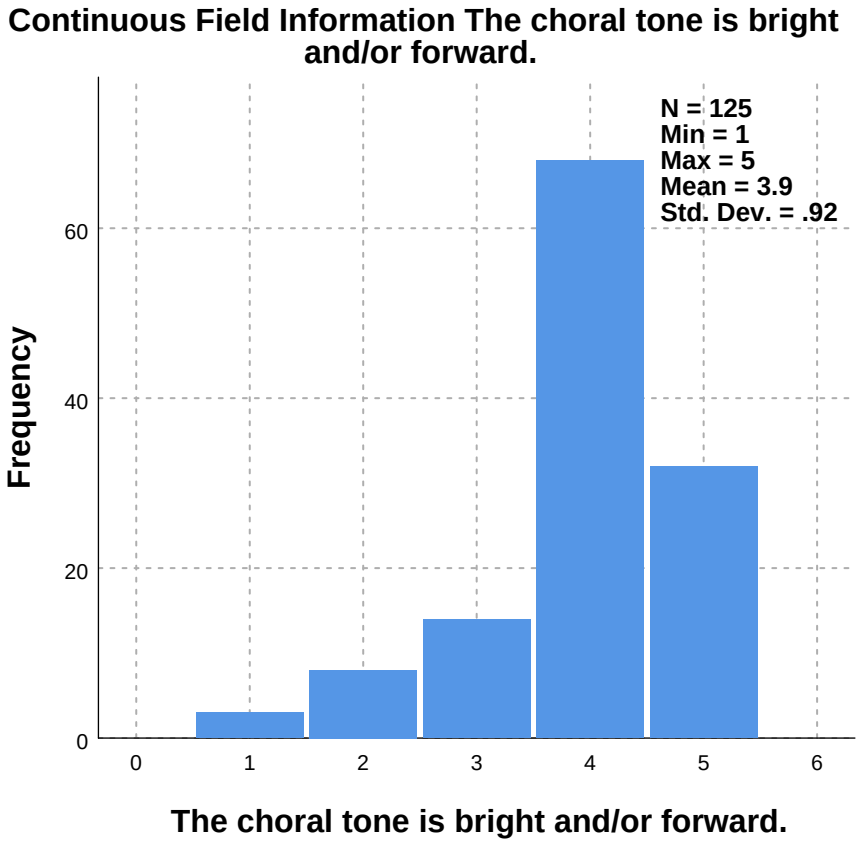
Total N	124
Test Statistic	7.364[a,b]
Degree Of Freedom	3
Asymptotic Sig.(2-sided test)	.061

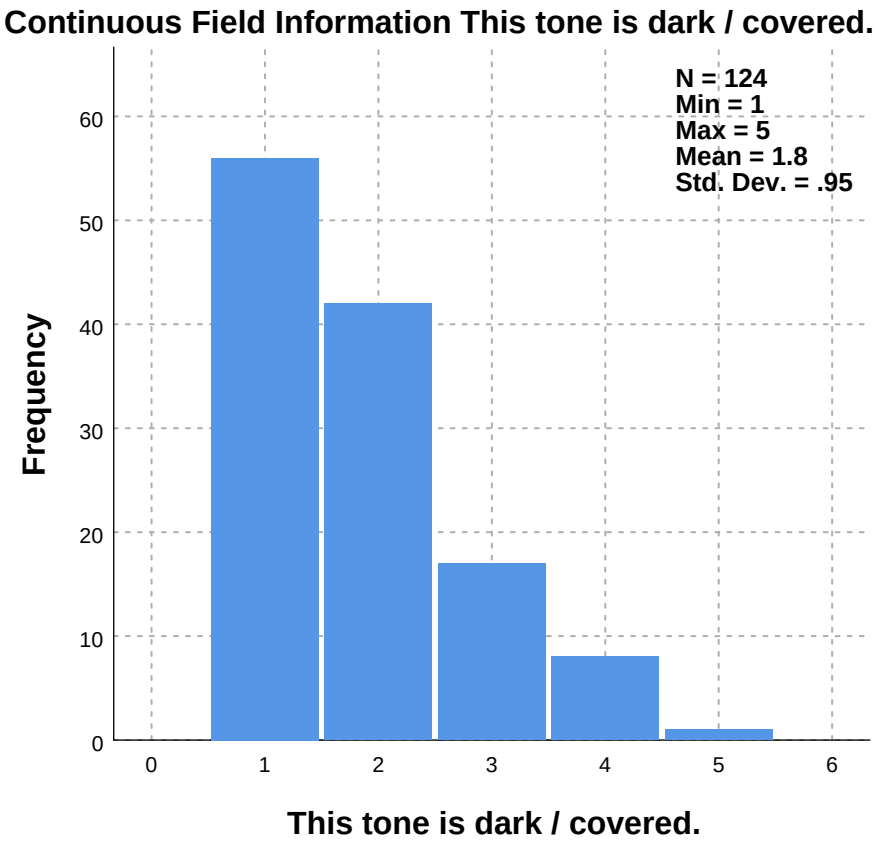
a. The test statistic is adjusted for ties.

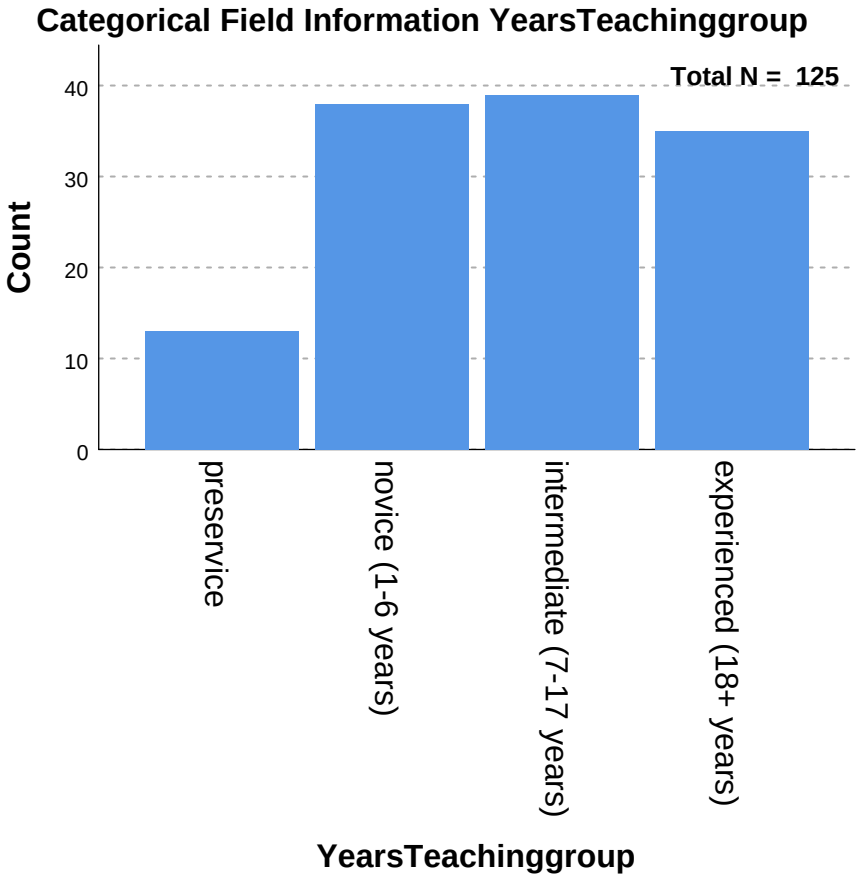
b. Multiple comparisons are not performed because the overall test does not show significant differences across samples.


Independent-Samples Kruskal-Wallis Test
This tone is dark / covered.
5
4
3
2
1
preservice
novice (1-6 years)
intermediate (7-17 years)
experienced (18+ years)
YearsTeachinggroup


Continuous Field Information The choral tone is pushed / strained.
N = 125
Min = 1
Max = 5
Mean = 3.1
Std. Dev. = 1.28
Frequency
60
40
20
0
0
1
2
3
4
5
6
The choral tone is pushed / strained.


Continuous Field Information The choral tone is bright and/or forward.
N = 125
Min = 1
Max = 5
Mean = 3.9
Std. Dev. = .92
Frequency
60
40
20
0
0
1
2
3
4
5
6
The choral tone is bright and/or forward.


Continuous Field Information This tone is dark / covered.
N = 124
Min = 1
Max = 5
Mean = 1.8
Std. Dev. = .95
Frequency
60
50
40
30
20
10
0
0
1
2
3
4
5
6
This tone is dark / covered.


Categorical Field Information YearsTeachinggroup
Total N = 125
Count
40
30
20
10
0
preservice
novice (1-6 years)
intermediate (7-17 years)
experienced (18+ years)
YearsTeachinggroup