GET

FILE='/Users/PauloGarcia/Desktop/blendingbox/Analysis/First Study/SPSS Files /datasets/q14 anal lab.sav'.

DATASET NAME DataSet5 WINDOW=FRONT.

DATASET ACTIVATE DataSet5.

DATASET CLOSE DataSet4.

EXAMINE VARIABLES-distance_expectedC1C2distance_HSV distance_LCh distance_CMY K distance RGB distance Lab

/PLOT BOXPLOT STEMLEAF NPPLOT

/COMPARE GROUPS

/STATISTICS DESCRIPTIVES

/CINTERVAL 95

/MISSING LISTWISE

/NOTOTAL.

Explore

Notes

Output Created		21-SEP-2016 17:44:08
Comments		
Input	Data	/Users/PauloGarcia/Des ktop/blendingbox/Anal ysis/First Study/SPSS Files/datasets/q14_anal _lab.sav
	Active Dataset	DataSet5
	Filter	<none></none>
	Weight	<none></none>
	Split File	<none></none>
	N of Rows in Working Data File	22
Missing Value Handling	Definition of Missing	User-defined missing values for dependent variables are treated as missing.
	Cases Used	Statistics are based on cases with no missing values for any dependent variable or factor used.

Notes

Syntax		EXAMINE VARIABLES=distance_ex pectedC1C2 distance_HSV distance_LCh distance_CMYK distance_RGB distance_Lab /PLOT BOXPLOT STEMLEAF NPPLOT /COMPARE GROUPS /STATISTICS DESCRIPTIVES /CINTERVAL 95 /MISSING LISTWISE /NOTOTAL.
Resources	Processor Time	00:00:03,08
	Elapsed Time	00:00:04,00

Case Processing Summary

	Cases					
	Va	alid	Mis	sing	To	otal
	N	Percent	N	Percent	N	Percent
distance_expected C1C2	22	100,0%	0	0,0%	22	100,0%
distance_HSV	22	100,0%	0	0,0%	22	100,0%
distance_LCh	22	100,0%	0	0,0%	22	100,0%
distance_CMYK	22	100,0%	0	0,0%	22	100,0%
distance_RGB	22	100,0%	0	0,0%	22	100,0%
distance_Lab	22	100,0%	0	0,0%	22	100,0%

Descriptives

			Statistic	Std. Error
distance_expected	Mean		.4609	.05691
C1C2	95% Confidence	Lower Bound	.3426	
	Interval for Mean	Upper Bound	.5793	
	5% Trimmed Mean		.4657	
	Median		.4250	
	Variance		,071	
	Std. Deviation		.26694	
	Minimum		.02	
	Maximum		.82	
	Range		.80	
	Interquartile Range		.45	
	Skewness		-,326	,491
	Kurtosis		-1,155	,953
distance_HSV	Mean		.1186	.03075
	95% Confidence	Lower Bound	.0547	
	Interval for Mean	Upper Bound	.1826	
	5% Trimmed Mean		.1069	
•	Median		.0500	
•	Variance		,021	
•	Std. Deviation		.14423	
•	Minimum		.00	
•	Maximum		.45	
•	Range		.45	
•	Interquartile Range		.11	
•	Skewness		1,501	,491
•	Kurtosis		,937	,953
distance_LCh	Mean		.2995	.01905
•	95% Confidence	Lower Bound	.2599	
	Interval for Mean	Upper Bound	.3392	
•	5% Trimmed Mean		.2996	
•	Median		.3150	
•	Variance		,008	
•	Std. Deviation		.08936	
•	Minimum		.13	
•	Maximum		.47	
•	Range		.34	
•	Interquartile Range		.14	
•	Skewness		-,156	,491
•	Kurtosis		-,857	,953
distance_CMYK	Mean		.0973	.01045
-	95% Confidence	Lower Bound	.0755	
	Interval for Mean	Upper Bound	.1190	
	5% Trimmed Mean		.0937	
	Median		.0900	

Descriptives

			Statistic	Std. Error
	Variance		,002	
	Std. Deviation		.04901	
	Minimum		.03	
	Maximum		.23	
	Range		.20	
	Interquartile Range		.05	
	Skewness		1,345	,491
	Kurtosis		1,682	,953
distance_RGB	Mean		.1327	.02858
	95% Confidence	Lower Bound	.0733	
	Interval for Mean	Upper Bound	.1922	
	5% Trimmed Mean		.1233	
	Median		.1250	
	Variance		,018	
	Std. Deviation		.13406	
	Minimum		.00	
	Maximum		.44	
	Range		.44	
	Interquartile Range		.18	
	Skewness		1,073	,491
	Kurtosis		,380	,953
distance_Lab	Mean		.1336	.02014
	95% Confidence	Lower Bound	.0918	
	Interval for Mean	Upper Bound	.1755	
	5% Trimmed Mean		.1265	
	Median		.1300	
	Variance		,009	
	Std. Deviation		.09444	
	Minimum		.03	
	Maximum		.37	
	Range		.34	
	Interquartile Range		.11	
	Skewness		1,174	,491
	Kurtosis		,946	,953

Tests of Normality

	Kolmogorov-Smirnov ^a			S	hapiro-Will	(
	Statistic	df	Sig.	Statistic	df	Sig.
distance_expected C1C2	,133	22	,200 [*]	,911	22	,049
distance_HSV	,297	22	,000	,742	22	,000
distance_LCh	,175	22	,079	,952	22	,351
distance_CMYK	,205	22	,017	,866	22	,007
distance_RGB	,165	22	,125	,856	22	,004
distance_Lab	,175	22	,077	,861	22	,005

- *. This is a lower bound of the true significance.
- a. Lilliefors Significance Correction

NPAR TESTS

 $/ {\tt FRIEDMAN\!=} distance_expected {\tt C1C2} distance_HSV \ distance_LCh \ distance_CMYK \ distance_RGB \ distance_Lab$

/STATISTICS DESCRIPTIVES QUARTILES

/MISSING LISTWISE.

NPar Tests

Notes

Output Created		21-SEP-2016 17:44:23
Comments		
Input	Data	/Users/PauloGarcia/Des ktop/blendingbox/Anal ysis/First Study/SPSS Files/datasets/q14_anal _lab.sav
	Active Dataset	DataSet5
	Filter	<none></none>
	Weight	<none></none>
	Split File	<none></none>
	N of Rows in Working Data File	22
Missing Value Handling	Definition of Missing	User-defined missing values are treated as missing.
	Cases Used	Statistics for all tests are based on cases with no missing data for any variables used.

Notes

Syntax		NPAR TESTS
		/FRIEDMAN=distance_e xpectedC1C2 distance_HSV distance_LCh distance_CMYK distance_RGB distance_Lab /STATISTICS DESCRIPTIVES QUARTILES /MISSING LISTWISE.
Resources	Processor Time	00:00:00,01
	Elapsed Time	00:00:00,00
	Number of Cases Allowed ^a	71493

a. Based on availability of workspace memory.

Descriptive Statistics

						Percentile
	N	Mean	Std. Deviation	Minimum	Maximum	25th
distance_expected C1C2	22	.4609	.26694	.02	.82	.2900
distance_HSV	22	.1186	.14423	.00	.45	.0200
distance_LCh	22	.2995	.08936	.13	.47	.2350
distance_CMYK	22	.0973	.04901	.03	.23	.0600
distance_RGB	22	.1327	.13406	.00	.44	.0175
distance_Lab	22	.1336	.09444	.03	.37	.0500

Descriptive Statistics

	Percentiles		
	50th (Median)	75th	
distance_expected C1C2	.4250	.7350	
distance_HSV	.0500	.1325	
distance_LCh	.3150	.3700	
distance_CMYK	.0900	.1125	
distance_RGB	.1250	.1950	
distance_Lab	.1300	.1625	

Friedman Test

Ranks

	Mean Rank
distance_expected C1C2	5,50
distance_HSV	2,39
distance_LCh	4,64
distance_CMYK	2,57
distance_RGB	2,68
distance_Lab	3,23

Test Statistics^a

N	22
Chi-Square	51,726
df	5
Asymp. Sig.	,000

a. Friedman Test

NPAR TESTS

/WILCOXON=distance_HSV distance_HSV distance_HSV distance_LCh d istance_LCh distance_LCh distance_LCh distance_CMYK distance_RGB WITH distance_LCh distance_CMYK distance_RGB distance_Lab distance_CMYK distance_RGB distance_Lab distance_LCMYK distance_RGB distance_Lab distance_LCMYK distance_RGB distance_LCMYK distance_RGB distance_LCMYK distance_RGB distance_LCMYK distance_RGB distance_LCMYK distance_RCMYK d

/STATISTICS DESCRIPTIVES QUARTILES /MISSING ANALYSIS.

NPar Tests

Notes

Comments Input Data Jusers/PauloGarcia/l ktop/blendingbox/A ysis/First Study/SPSS Files/datasets/q14_a lab.sav Active Dataset DataSet5 Filter <none> Weight <none> Split File N of Rows in Working Data File Missing Value Definition of Handling Handling Handling Cases Used Cases Used Statistics for each teare based on all case with valid data for the variable(s) used in the test. Syntax NPAR TESTS WILCOXON=distance HSV distance HSV distance HSV Cases Used Cases Cases Used Cases </none></none>	nal nal
Ktop/blendingbox/A ysis/First Study/SPSS Files/datasets/q14_a _ lab.sav	nal nal
Filter Weight Split File N of Rows in Working Data File Missing Value Handling Cases Used Filter N of Rows in Working Data File User-defined missing values are treated as missing. Statistics for each teare based on all case with valid data for the variable(s) used in the test. Syntax NPAR TESTS /WILCOXON=distance SV distance_HSV distance_HSV distance_HSV distance_HSV	I st s
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/WILCOXON=distance SV distance_HSV distance_HSV distance_HSV	
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distance_LCh distance_LCh distance_CMYK distance_CMYK distance_CMYK distance_RGB WITH distance_LCh distance_CMYK distance_LCh distance_CMYK distance_RGB distance_Lab distance_Lab distance_RGB distance_Lab)
Resources Processor Time 00:00:00	01
Elapsed Time 00:00:00	
Number of Cases Allowed ^a 78	

a. Based on availability of workspace memory.

Descriptive Statistics

						Percentile
	N	Mean	Std. Deviation	Minimum	Maximum	25th
distance_HSV	22	.1186	.14423	.00	.45	.0200
distance_LCh	22	.2995	.08936	.13	.47	.2350
distance_CMYK	22	.0973	.04901	.03	.23	.0600
distance_RGB	22	.1327	.13406	.00	.44	.0175
distance_Lab	22	.1336	.09444	.03	.37	.0500

Descriptive Statistics

	Percentiles		
	50th (Median)	75th	
distance_HSV	.0500	.1325	
distance_LCh	.3150	.3700	
distance_CMYK	.0900	.1125	
distance_RGB	.1250	.1950	
distance_Lab	.1300	.1625	

Wilcoxon Signed Ranks Test

Ranks

		N	Mean Rank	Sum of Ranks
distance_LCh -	Negative Ranks	4 ^a	5,75	23,00
distance_HSV	Positive Ranks	18 ^b	12,78	230,00
	Ties	0 c		
	Total	22		
distance_CMYK -	Negative Ranks	7 ^d	14,79	103,50
distance_HSV	Positive Ranks	14 ^e	9,11	127,50
	Ties	1 ^f		
	Total	22		
distance_RGB -	Negative Ranks	11 ^g	7,91	87,00
distance_HSV	Positive Ranks	10 ^h	14,40	144,00
	Ties	1 ⁱ		
	Total	22		
distance_Lab -	Negative Ranks	7 ^j	13,57	95,00
distance_HSV	Positive Ranks	15 ^k	10,53	158,00
	Ties	01		
	Total	22		
distance_CMYK -	Negative Ranks	21 ^m	12,00	252,00
distance_LCh	Positive Ranks	1 ⁿ	1,00	1,00
	Ties	0°		
	Total	22		
distance_RGB -	Negative Ranks	17 ^p	12,26	208,50
distance_LCh	Positive Ranks	4 ^q	5,63	22,50

Ranks

		N	Mean Rank	Sum of Ranks
	Ties	1 r		
	Total	22		
distance_Lab -	Negative Ranks	18 ^s	12,14	218,50
distance_LCh	Positive Ranks	3 ^t	4,17	12,50
	Ties	1 ^u		
	Total	22		
distance_RGB -	Negative Ranks	8 ^v	10,19	81,50
distance_CMYK	Positive Ranks	14 ^w	12,25	171,50
	Ties	0 ^x		
	Total	22		
distance_Lab -	Negative Ranks	7 ^y	4,21	29,50
distance_CMYK	Positive Ranks	13 ^z	13,88	180,50
	Ties	2 ^{aa}		
	Total	22		
distance_Lab -	Negative Ranks	8 ^{ab}	14,38	115,00
distance_RGB	Positive Ranks	1 4 ^{ac}	9,86	138,00
	Ties	0 ^{ad}		
	Total	22		

a. distance_LCh < distance_HSV

b. distance_LCh > distance_HSV

c. distance_LCh = distance_HSV

- d. distance_CMYK < distance_HSV
- e. distance_CMYK > distance_HSV
- f. distance CMYK = distance HSV
- g. distance_RGB < distance_HSV
- h. distance RGB > distance HSV
- i. distance_RGB = distance_HSV
- j. distance_Lab < distance_HSV
- k. distance_Lab > distance_HSV
- I. distance_Lab = distance_HSV
- m. distance CMYK < distance LCh
- n. distance_CMYK > distance_LCh
- o. distance_CMYK = distance_LCh
- p. distance_RGB < distance_LCh
- q. distance_RGB > distance_LCh
- r. distance_RGB = distance_LCh
- s. distance_Lab < distance_LCh
- t. distance_Lab > distance_LCh
- u. distance_Lab = distance_LCh
- v. distance_RGB < distance_CMYK
- w. distance_RGB > distance_CMYK
- x. distance_RGB = distance_CMYK
- y. distance_Lab < distance_CMYK
- z. distance_Lab > distance_CMYK
- aa. distance_Lab = distance_CMYK
- ab. distance_Lab < distance_RGB
- ac. distance_Lab > distance_RGB
- ad. distance_Lab = distance_RGB

Test Statistics^a

	distance_LCh - distance_HSV	distance_CMY K - distance_HSV	distance_RGB - distance_HSV	distance_Lab - distance_HSV	distance_CMY K - distance_LCh
Z	-3,361 ^b	-,418 ^b	-,993 ^b	-1,024 ^b	-4,075 ^c
Asymp. Sig. (2-tailed)	,001	,676	,320	,306	,000

Test Statistics^a

	distance_RGB - distance_LCh	distance_Lab - distance_LCh	distance_RGB - distance_CMY K	distance_Lab - distance_CMY K	distance_Lab - distance_RGB
Z	-3,235 ^c	-3,582 ^c	-1,465 ^b	-2,825 ^b	-,375 ^b
Asymp. Sig. (2- tailed)	,001	,000	,143	,005	,708

- a. Wilcoxon Signed Ranks Test
- b. Based on negative ranks.
- c. Based on positive ranks.