GET

FILE='/Users/PauloGarcia/Desktop/blendingbox/Analysis/First Study/SPSS Files /datasets/q2 anal lab.sav'.

DATASET NAME DataSet2 WINDOW=FRONT.

EXAMINE VARIABLES-distance\_expectedC1C2distance\_HSV distance\_LCh distance\_CMY K distance\_RGB distance\_Lab

/PLOT  $BO\overline{XPLOT}$  STEMLEAF NPPLOT

/COMPARE GROUPS

/STATISTICS DESCRIPTIVES

/CINTERVAL 95

/MISSING LISTWISE

/NOTOTAL.

# **Explore**

#### **Notes**

Output Created		21-SEP-2016 16:40:01
Comments		
Input	Data	/Users/PauloGarcia/Des ktop/blendingbox/Anal ysis/First Study/SPSS Files/datasets/q2_anal_I ab.sav
	<b>Active Dataset</b>	DataSet2
	Filter	<none></none>
	Weight	<none></none>
	Split File	<none></none>
	N of Rows in Working Data File	15
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	00:00:03,09
	Elapsed Time	00:00:03,00

 $\label{lem:condition} $$[DataSet2] / Users/PauloGarcia/Desktop/blendingbox/Analysis/First Study/SPSS Files/datasets/q2_anal_lab.sav$ 

## **Case Processing Summary**

			Са	ses		
	Va	alid	Mis	sing	Total	
	N	Percent	N	Percent	N	Percent
distance_expected C1C2	15	100,0%	0	0,0%	15	100,0%
distance_HSV	15	100,0%	0	0,0%	15	100,0%
distance_LCh	15	100,0%	0	0,0%	15	100,0%
distance_CMYK	15	100,0%	0	0,0%	15	100,0%
distance_RGB	15	100,0%	0	0,0%	15	100,0%
distance_Lab	15	100,0%	0	0,0%	15	100,0%

## **Descriptives**

			Statistic	Std. Error
distance_expected	Mean		.5500	.07783
C1C2	95% Confidence	Lower Bound	.3831	
	Interval for Mean	Upper Bound	.7169	
•	5% Trimmed Mean		.5533	
•	Median		.5300	
•	Variance		,091	
•	Std. Deviation		.30143	
•	Minimum		.02	
•	Maximum		1.02	
	Range		1.00	
•	Interquartile Range		.52	
•	Skewness		-,185	,580
•	Kurtosis		-,749	1,121
distance_HSV	Mean		.2173	.03360
•	95% Confidence	Lower Bound	.1453	
	Interval for Mean	<b>Upper Bound</b>	.2894	
•	5% Trimmed Mean		.2170	
•	Median		.2200	
•	Variance		,017	
•	Std. Deviation		.13014	
•	Minimum		.01	
•	Maximum		.43	
•	Range		.42	
	Interquartile Range		.21	
	Skewness		,097	,580
	Kurtosis		-,888	1,121
distance_LCh	Mean		.1573	.02439
	95% Confidence	Lower Bound	.1050	
	Interval for Mean	Upper Bound	.2096	
	5% Trimmed Mean		.1509	
	Median		.1600	
	Variance		,009	
	Std. Deviation		.09445	
	Minimum		.03	
	Maximum		.40	
	Range		.37	
	Interquartile Range		.10	
	Skewness		1,042	,580
	Kurtosis		2,054	1,121
distance_CMYK	Mean		.1060	.01457
	95% Confidence	Lower Bound	.0748	
	Interval for Mean	Upper Bound	.1372	
	5% Trimmed Mean		.1050	
	Median		.1200	

# Descriptives

Variance			Statistic	Std. Error
Minimum   .02		Variance	,003	
Maximum		Std. Deviation	.05642	
Range		Minimum	.02	
Interquartile Range		Maximum	.21	
Skewness		Range	.19	
Kurtosis		Interquartile Range	.09	
Mean		Skewness	,034	,580
95% Confidence Interval for Mean		Kurtosis	-,784	1,121
Interval for Mean	distance_RGB	Mean	.1660	.02716
Skewness   Comparison   Compa			.1077	
Median		Interval for Mean Upper Bound	.2243	
Variance   ,011		5% Trimmed Mean	.1656	
Std. Deviation         .10521           Minimum         .01           Maximum         .33           Range         .32           Interquartile Range         .21           Skewness         ,158         ,580           Kurtosis         -1,301         1,121           distance_Lab         Mean         .1560         .02169           95% Confidence Interval for Mean         Lower Bound Upper Bound         .1095           5% Trimmed Mean         .1550         Median         .1700           Variance         ,007         Std. Deviation         .08399           Minimum         .02         Maximum         .31           Range         .29         Interquartile Range         .10           Skewness         ,123         ,580		Median	.1400	
Minimum         .01           Maximum         .33           Range         .32           Interquartile Range         .21           Skewness         ,158         ,580           Kurtosis         -1,301         1,121           Mean         .1560         .02169           95% Confidence Interval for Mean         Lower Bound Upper Bound         .2025           5% Trimmed Mean         .1550           Median         .1700           Variance         ,007           Std. Deviation         .08399           Minimum         .02           Maximum         .31           Range         .29           Interquartile Range         .10           Skewness         ,123         ,580		Variance	,011	
Maximum   .33   Range   .32   Interquartile Range   .21   Skewness   ,158   ,580   Kurtosis   -1,301   1,121		Std. Deviation	.10521	
Range   .32		Minimum	.01	
Interquartile Range		Maximum	.33	
Skewness   ,158   ,580		Range	.32	
Kurtosis		Interquartile Range	.21	
Mean   .1560   .02169		Skewness	,158	,580
95% Confidence Interval for Mean         Lower Bound Upper Bound         .2025           5% Trimmed Mean         .1550           Median         .1700           Variance         ,007           Std. Deviation         .08399           Minimum         .02           Maximum         .31           Range         .29           Interquartile Range         .10           Skewness         ,123         ,580		Kurtosis	-1,301	1,121
Interval for Mean         Upper Bound         .2025           5% Trimmed Mean         .1550           Median         .1700           Variance         ,007           Std. Deviation         .08399           Minimum         .02           Maximum         .31           Range         .29           Interquartile Range         .10           Skewness         ,123         ,580	distance_Lab		.1560	.02169
5% Trimmed Mean       .1550         Median       .1700         Variance       ,007         Std. Deviation       .08399         Minimum       .02         Maximum       .31         Range       .29         Interquartile Range       .10         Skewness       ,123       ,580			.1095	
Median       .1700         Variance       ,007         Std. Deviation       .08399         Minimum       .02         Maximum       .31         Range       .29         Interquartile Range       .10         Skewness       ,123       ,580		Interval for Mean Upper Bound	.2025	
Variance         ,007           Std. Deviation         .08399           Minimum         .02           Maximum         .31           Range         .29           Interquartile Range         .10           Skewness         ,123         ,580		5% Trimmed Mean	.1550	
Std. Deviation         .08399           Minimum         .02           Maximum         .31           Range         .29           Interquartile Range         .10           Skewness         ,123         ,580		Median	.1700	
Minimum         .02           Maximum         .31           Range         .29           Interquartile Range         .10           Skewness         ,123         ,580		Variance	,007	
Maximum         .31           Range         .29           Interquartile Range         .10           Skewness         ,123         ,580		Std. Deviation	.08399	
Range .29 Interquartile Range .10 Skewness ,123 ,580		Minimum	.02	
Interquartile Range .10 Skewness ,123 ,580		Maximum	.31	
Skewness ,123 ,580		Range	.29	
		Interquartile Range	.10	
Kurtosis -,610 1,121		Skewness	,123	,580
		Kurtosis	-,610	1,121

## **Tests of Normality**

	Kolmogorov-Smirnov <sup>a</sup>			9	Shapiro-Wil	k
	Statistic	df	Sig.	Statistic	df	Sig.
distance_expected C1C2	,114	15	,200 <sup>*</sup>	,965	15	,775
distance_HSV	,083	15	,200 <sup>*</sup>	,969	15	,841
distance_LCh	,192	15	,140	,911	15	,141
distance_CMYK	,131	15	,200 <sup>*</sup>	,958	15	,652
distance_RGB	,136	15	,200 <sup>*</sup>	,943	15	,424
distance_Lab	,108	15	,200 <sup>*</sup>	,973	15	,897

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

DATASET ACTIVATE DataSet2. DATASET CLOSE DataSet1.

NPAR TESTS

/FRIEDMAN=distance\_HSV distance\_LCh distance\_CMYK distance\_RGB distance\_Lab /STATISTICS DESCRIPTIVES QUARTILES /MISSING LISTWISE.

## **NPar Tests**

#### Notes

Output Created		21-SEP-2016 16:45:28
Comments		
Input	Data	/Users/PauloGarcia/Des ktop/blendingbox/Anal ysis/First Study/SPSS Files/datasets/q2_anal_l ab.sav
	<b>Active Dataset</b>	DataSet2
	Filter	<none></none>
	Weight	<none></none>
	Split File	<none></none>
	N of Rows in Working Data File	15
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_H SV 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 <sup>a</sup>	78643

a. Based on availability of workspace memory.

# **Descriptive Statistics**

						Percentile
	N	Mean	Std. Deviation	Minimum	Maximum	25th
distance_HSV	15	.2173	.13014	.01	.43	.1000
distance_LCh	15	.1573	.09445	.03	.40	.0900
distance_CMYK	15	.1060	.05642	.02	.21	.0500
distance_RGB	15	.1660	.10521	.01	.33	.0700
distance_Lab	15	.1560	.08399	.02	.31	.1000

# **Descriptive Statistics**

	Percentiles		
	50th (Median)	75th	
distance_HSV	.2200	.3100	
distance_LCh	.1600	.1900	
distance_CMYK	.1200	.1400	
distance_RGB	.1400	.2800	
distance_Lab	.1700	.2000	

# Friedman Test

## Ranks

	Mean Rank
distance_HSV	4,33
distance_LCh	3,10
distance_CMYK	1,67
distance_RGB	2,90
distance_Lab	3,00

#### **Test Statistics**<sup>a</sup>

N	15
Chi-Square	22,041
df	4
Asymp. Sig.	,000

a. Friedman Test

#### NPAR TESTS

/WILCOXON=distance\_HSV distance\_HSV distance\_HSV distance\_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\_RGB distance\_RGB distance\_Lab distance\_RGB distance\_RGB distance\_Lab distance\_RGB distance\_RGB

/STATISTICS DESCRIPTIVES QUARTILES /MISSING ANALYSIS.

## **NPar Tests**

#### **Notes**

Output Created		21-SEP-2016 16:46:51
Comments		
Input	Data	/Users/PauloGarcia/Des ktop/blendingbox/Anal ysis/First Study/SPSS Files/datasets/q2_anal_l ab.sav
	<b>Active Dataset</b>	DataSet2
	Filter	<none></none>
	Weight	<none></none>
	Split File	<none></none>
	N of Rows in Working Data File	15
Missing Value Handling	Definition of Missing	User-defined missing values are treated as missing.
	Cases Used	Statistics for each test are based on all cases with valid data for the variable(s) used in that test.

#### Notes

		NDAD TEOTO
Syntax		NPAR TESTS
		/WILCOXON=distance_H SV distance_HSV distance_HSV distance_HSV distance_LCh distance_LCh distance_CMYK distance_CMYK distance_CMYK distance_CMYK distance_RGB WITH distance_CMYK distance_LCh distance_LAD distance_L
Resources	Processor Time	00:00:00,01
	Elapsed Time	00:00:00,00
	Number of Cases Allowed <sup>a</sup>	78643

a. Based on availability of workspace memory.

## **Descriptive Statistics**

						Percentile
	N	Mean	Std. Deviation	Minimum	Maximum	25th
distance_HSV	15	.2173	.13014	.01	.43	.1000
distance_LCh	15	.1573	.09445	.03	.40	.0900
distance_CMYK	15	.1060	.05642	.02	.21	.0500
distance_RGB	15	.1660	.10521	.01	.33	.0700
distance_Lab	15	.1560	.08399	.02	.31	.1000

# **Descriptive Statistics**

	Percentiles		
	50th (Median)	75th	
distance_HSV	.2200	.3100	
distance_LCh	.1600	.1900	
distance_CMYK	.1200	.1400	
distance_RGB	.1400	.2800	
distance_Lab	.1700	.2000	

# Wilcoxon Signed Ranks Test

Ranks

N   Mean Rank   Sum of Ranks	distance_HSV Positive Ranks Ties Total  distance_CMYK - distance_HSV Positive Ranks Ties Total  distance_RGB - distance_Lab - distance_HSV Rositive Ranks Ties Total  distance_Lab - distance_LSP Total  distance_CMYK - distance_LCh Regative Ranks Ties Total  distance_CMYK - distance_LCh Regative Ranks Ties Total  distance_LCh Positive Ranks Ties Total  distance_LCh Regative Ranks Ties Total  distance_LCh Regative Ranks Ties Total  distance_LCh Positive Ranks Ties Total  distance_LCh Regative Ranks Ties Total  distance_RGB - distance	9 <sup>a</sup> 5 <sup>b</sup> 1 <sup>c</sup> 15 14 <sup>d</sup> 1 <sup>e</sup> 0 <sup>f</sup> 15 13 <sup>g</sup> 0 <sup>h</sup> 2 <sup>i</sup> 15 12 <sup>j</sup> 2 <sup>k</sup> 1 <sup>l</sup> 15 11 <sup>m</sup> 4 <sup>n</sup> 0° 15	8,44 5,80 8,32 3,50 7,00 ,00	76,00 29,00 116,50 3,50 91,00 ,00 89,00 16,00
Distance_HSV	distance_HSV Positive Ranks Ties Total  distance_CMYK - distance_HSV Positive Ranks Ties Total  distance_RGB - distance_Lab - distance_HSV Rositive Ranks Ties Total  distance_HSV Positive Ranks Ties Total  distance_Lab - distance_LSP Rositive Ranks Ties Total  distance_CMYK - distance_LCh Rogative Ranks Ties Total  distance_LCh Rogative Ranks Positive Ranks Ties Total  distance_LCh Rogative Ranks Positive Ranks Ties Total  distance_RGB - distance_LCh Rogative Ranks Ties Total  distance_RGB -	5 b 1 c 1 5 1 4 d 1 e 0 f 1 5 1 3 g 0 h 2 i 1 5 1 2 h 1 5 1 1 m 4 n 0 o 1 5	5,80 8,32 3,50 7,00 ,00 7,42 8,00	29,00 116,50 3,50 91,00 ,00 89,00 16,00
Ties   1c   1c   1c   1c   1c   1c   1c   1	distance_CMYK - distance_RGB - distance_LCh  distance_CMYK - distance_LCh  Negative Ranks Ties Total	1 c 1 5 1 4 d 1 e 0 f 1 5 1 3 g 0 h 2 i 1 5 1 2 j 2 k 1 i 1 5 1 1 m 4 n 0 o 1 5	7,00 ,00 7,42 8,00	91,00 ,00 89,00 16,00
Total	distance_CMYK - distance_RGB - distance_Lab - distance_LCh  distance_LCh  distance_CMYK - distance_LCh  Avegative Ranks Ties Total  distance_LCh  Negative Ranks Positive Ranks Ties Total  distance_LCh  Negative Ranks Positive Ranks Ties Total	15 14 <sup>d</sup> 1 <sup>e</sup> 0 <sup>f</sup> 15 13 <sup>g</sup> 0 <sup>h</sup> 2 <sup>i</sup> 15 12 <sup>j</sup> 2 <sup>k</sup> 1 <sup>l</sup> 15 11 <sup>m</sup> 4 <sup>n</sup> 0° 15	7,00 ,00 7,42 8,00	3,50 91,00 ,00 89,00 16,00
distance_CMYK - distance_HSV	distance_CMYK - distance_HSV  Dositive Ranks Ties Total  distance_HSV  Negative Ranks Positive Ranks Ties Total  distance_Lab - distance_LSh  distance_LCh  Dositive Ranks Ties Total  distance_CMYK - distance_LCh  Dositive Ranks Ties Total  distance_LCh  Dositive Ranks Ties Total  distance_LCh  Negative Ranks Positive Ranks Ties Total  distance_LCh  Negative Ranks Ties Total  distance_LCh  Negative Ranks Positive Ranks Ties Total  distance_LCh  Negative Ranks Ties Total  distance_LCh  Negative Ranks Positive Ranks Positive Ranks Ties Total  distance_LCh  Negative Ranks Positive Ranks Ties Total  distance_CMYK  Positive Ranks Ties Total	14 <sup>d</sup> 1 <sup>e</sup> 0 <sup>f</sup> 15 13 <sup>g</sup> 0 <sup>h</sup> 2 <sup>i</sup> 15 12 <sup>j</sup> 2 <sup>k</sup> 1 <sup>s</sup> 15	7,00 ,00 7,42 8,00	3,50 91,00 ,00 89,00 16,00
Desitive Ranks   1e	distance_HSV Positive Ranks Ties Total  distance_HSV Negative Ranks Ties Total  distance_Lab - distance_HSV Negative Ranks Ties Total  distance_CMYK - distance_LCh Negative Ranks Ties Total  distance_LCh Positive Ranks Ties Total  distance_LCh Negative Ranks Positive Ranks Ties Total  distance_LCh Negative Ranks Positive Ranks Ties Total  distance_CMYK Positive Ranks Ties Total  distance_CMYK Positive Ranks Ties Total	1° 0f 15 13° 0h 2i 15 12j 2k 1 15 11m 4n 0° 15	7,00 ,00 7,42 8,00	3,50 91,00 ,00 89,00 16,00
Ties	distance_RGB - distance_Lab - distance_LCh  distance_LCh  distance_LCh  distance_LCh  distance_LCh  distance_LCh  distance_LCh  distance_LCh  distance_LCh  distance_RGB - distance_LCh  distance_LCh  distance_LCh  distance_LCh  distance_RGB - distance_LCh  distance_LCh  distance_LCh  distance_LCh  distance_LCh  distance_LCh  distance_LCh  distance_LCh  Negative Ranks Ties Total  distance_LCh  Negative Ranks Ties Total  distance_LCh  Negative Ranks Positive Ranks Ties Total  distance_LCh  Negative Ranks Ties Total  distance_LCh  Negative Ranks Ties Total	0 <sup>f</sup> 15 13 <sup>g</sup> 0 <sup>h</sup> 2 <sup>i</sup> 15 12 <sup>j</sup> 2 <sup>k</sup> 1 <sup>l</sup> 15 11 <sup>m</sup> 4 <sup>n</sup> 0° 15	7,00 ,00 7,42 8,00	91,00 ,00 89,00 16,00
Total	distance_RGB - distance_Lab - distance_LCh  Negative Ranks Ties Total  distance_LCh  Negative Ranks Ties Total  distance_LCh  Negative Ranks Positive Ranks Positive Ranks Ties Total  distance_CMYK  Positive Ranks Ties Total	15 13 <sup>g</sup> 0 <sup>h</sup> 2 <sup>i</sup> 15 12 <sup>j</sup> 2 <sup>k</sup> 1 15 11 <sup>m</sup> 4 <sup>n</sup> 0° 15	7,42 8,00	89,00 16,00
distance_RGB -   Negative Ranks   13 <sup>g</sup>   7,00   91,00       distance_HSV   Positive Ranks   12 <sup>l</sup>   7,42   89,00     distance_Lab -   Negative Ranks   12 <sup>l</sup>   7,42   89,00     distance_HSV   Positive Ranks   12 <sup>l</sup>   7,42   89,00     distance_HSV   Positive Ranks   12 <sup>l</sup>   7,42   89,00     distance_HSV   Positive Ranks   11 <sup>l</sup>	distance_RGB - distance_Lab - distance_LAb - distance_LCh	13 <sup>9</sup> 0 <sup>h</sup> 2 <sup>i</sup> 15 12 <sup>j</sup> 2 <sup>k</sup> 1 <sup>1</sup> 15 11 <sup>m</sup> 4 <sup>n</sup> 0° 15	7,42 8,00	89,00 16,00
Distance_HSV	distance_HSV Positive Ranks Ties Total  distance_Lab - distance_HSV Negative Ranks Ties Total  distance_CMYK - distance_LCh Negative Ranks Positive Ranks Ties Total  distance_RGB - distance_LCh Negative Ranks Ties Total  distance_LCh Negative Ranks Positive Ranks Ties Total  distance_LCh Negative Ranks Ties Total  distance_LCh Negative Ranks Positive Ranks Ties Total  distance_LCh Negative Ranks Positive Ranks Ties Total  distance_RGB - distance_CMYK Negative Ranks Ties Total	0 <sup>h</sup> 2 <sup>i</sup> 15 12 <sup>j</sup> 2 <sup>k</sup> 1 <sup>l</sup> 15 11 <sup>m</sup> 4 <sup>n</sup> 0° 15	7,42 8,00	89,00 16,00
Ties   Total   Total	distance_Lab - distance_CMYK - distance_LCh  Negative Ranks Ties Total  distance_LCh  Negative Ranks Positive Ranks Positive Ranks Ties Total  distance_CMYK  Negative Ranks Ties Total	2 <sup>i</sup> 15 12 <sup>j</sup> 2 <sup>k</sup> 1 <sup>l</sup> 15 11 <sup>m</sup> 4 <sup>n</sup> 0° 15	7,42 8,00	89,00 16,00 95,00
Total	distance_Lab - distance_CMYK - distance_LCh  Negative Ranks Ties Total  distance_LCh  Negative Ranks Ties Total  distance_LCh  Negative Ranks Positive Ranks Ties Total  distance_CMYK  Positive Ranks Ties Total	15 12 <sup>j</sup> 2 <sup>k</sup> 1 <sup>l</sup> 15 11 <sup>m</sup> 4 <sup>n</sup> 0° 15	8,00	16,00 95,00
Distance_Lab - distance_LCh   Positive Ranks   Ties   Total   Tota	distance_Lab - distance_HSV  Negative Ranks Ties Total  distance_LCh  Negative Ranks Positive Ranks Positive Ranks Ties Total  distance_RGB - distance_LCh  Negative Ranks Ties Total  Negative Ranks Positive Ranks Positive Ranks Ties Total  distance_Lab - distance_LCh  Negative Ranks Ties Total  distance_LCh  Negative Ranks Positive Ranks Ties Total  distance_RGB - distance_CMYK  Negative Ranks Ties Total	12 <sup>j</sup> 2 <sup>k</sup> 1 <sup>l</sup> 15 11 <sup>m</sup> 4 <sup>n</sup> 0° 15	8,00	16,00 95,00
Distance_HSV	distance_HSV Positive Ranks Ties Total  distance_CMYK - distance_LCh  distance_RGB - distance_LCh  Negative Ranks Ties Total  Negative Ranks Ties Total  distance_LCh Negative Ranks Ties Total  distance_Lab - distance_LCh Negative Ranks Ties Total  distance_LCh Negative Ranks Positive Ranks Ties Total  distance_RGB - distance_CMYK Negative Ranks Ties Total	2 <sup>k</sup> 1 <sup>l</sup> 15 11 <sup>m</sup> 4 <sup>n</sup> 0° 15	8,00	16,00 95,00
Ties 1 1	distance_CMYK - distance_LCh  distance_RGB - distance_LCh  distance_LCh  distance_LCh  distance_LCh  distance_LCh  distance_LCh  distance_LCh  distance_LCh  Area Total  distance_Lab - distance_LCh  distance_LCh  Negative Ranks Ties Total  Negative Ranks Positive Ranks Positive Ranks Ties Total  distance_RGB - distance_CMYK  Negative Ranks Ties Total	1 <sup>1</sup> 15 11 <sup>m</sup> 4 <sup>n</sup> 0° 15	8,64	95,00
Total	distance_CMYK - distance_LCh  distance_LCh  distance_RGB - distance_LCh  distance_LCh  distance_LCh  distance_LCh  distance_LCh  distance_LCh  distance_LCh  distance_LCh  Negative Ranks Ties Total  Negative Ranks Positive Ranks Ties Total  distance_LCh  Negative Ranks Ties Total  distance_CMYK  Negative Ranks Ties Total	15 11 <sup>m</sup> 4 <sup>n</sup> 0° 15	· ·	-
distance_CMYK - distance_LCh         Negative Ranks Positive Ranks An G,25         11 <sup>m</sup> 8,64         95,00           Ties Total         0° Total         15           distance_RGB - distance_LCh         Negative Ranks Positive Ranks Ranks Ties Negative Ranks Ra	distance_CMYK - distance_LCh  Negative Ranks Ties Total  distance_LCh  Negative Ranks Positive Ranks Positive Ranks Ties Total  distance_LCh  Negative Ranks Positive Ranks Ties Total  distance_LCh  Negative Ranks Positive Ranks Positive Ranks Ties Total  distance_RGB - distance_CMYK  Negative Ranks Positive Ranks Ties Total	11 <sup>m</sup> 4 <sup>n</sup> 0° 15	· ·	-
distance_LCh         Positive Ranks         4n         6,25         25,00           Ties         0°         0°         25,00           Total         15         30°         30°           distance_RGB - distance_LCh         Negative Ranks         6°         9,58         57,50           Positive Ranks         9°         6,94         62,50           Ties         0°         48,00           distance_Lab - distance_LCh         Negative Ranks         5°         8,60         43,00           Ties         2°         30°         43,00         43,00           distance_RGB - distance_CMYK         Negative Ranks         4°         4,00         16,00           Repositive Ranks         10°         8,90         89,00           Ties         1°         15         15           distance_Lab - distance_Lab - distance_CMYK         Negative Ranks         0°         ,00         ,00	distance_LCh  Positive Ranks Ties Total  distance_RGB - distance_LCh  Negative Ranks Ties Total  distance_Lab - distance_LCh  Negative Ranks Positive Ranks Ties Total  distance_LCh  Negative Ranks Positive Ranks Ties Total  distance_RGB - distance_CMYK  Negative Ranks Ties Total	4 <sup>n</sup> 0° 15	· ·	-
distance_LCh         Positive Ranks         4 n o o o o o o o o o o o o o o o o o o	distance_RGB - distance_LCh  distance_Lab - distance_LCh  distance_LCh  Negative Ranks Ties Total  Negative Ranks Positive Ranks Ties Total  distance_LCh  Negative Ranks Positive Ranks Ties Total  distance_RGB - distance_CMYK  Negative Ranks Ties Total	4 <sup>n</sup> 0° 15	6,25	25,00
Total	distance_RGB - distance_LCh  distance_LCh  distance_Lab - distance_LCh  distance_LCh  Megative Ranks Positive Ranks Positive Ranks Ties Total  distance_RGB - distance_RGB - distance_CMYK  Negative Ranks Ties Total  Negative Ranks Ties Total	15		
distance_RGB - distance_LCh         Negative Ranks Positive Ranks Positive Ranks Ties Negative Ranks Positive Ranks Positive Ranks Ranks Ties Positive Ranks Positive Ranks Ties Positive Ranks Ties Positive Ranks Ties Positive Ranks Ties Positive Ranks Rank	distance_RGB - distance_LCh  Negative Ranks Positive Ranks Ties Total  distance_Lab - distance_LCh  Negative Ranks Positive Ranks Ties Total  distance_RGB - distance_CMYK  Negative Ranks Ties Total  Negative Ranks Ties Total  Negative Ranks Ties Total		l l	
distance_LCh         Positive Ranks         9 q or Total         6,94 or Total         62,50 or Total           distance_Lab - distance_LCh         Negative Ranks Positive Ranks Ties Total         8 s or 6,00 or 48,00 or 48,00 or 43,00 or 43,	distance_LCh Positive Ranks Ties Total  distance_Lab - distance_LCh Negative Ranks Positive Ranks Ties Total  distance_RGB - distance_CMYK Negative Ranks Positive Ranks Ties Total  Negative Ranks Ties Total	_		
Ties 0 r Total 15  distance_Lab - distance_LCh Positive Ranks 7 total 15  distance_RGB - distance_CMYK Positive Ranks 7 total 15  distance_Lab - distance_CMYK Positive Ranks 7 total 15  distance_Lab - distance_CMYK Positive Ranks 7 total 15	distance_Lab - distance_LCh  distance_LCh  Megative Ranks Positive Ranks Ties Total  distance_RGB - distance_CMYK  Negative Ranks Ties Total  Negative Ranks Ties Total  Total	6 P	9,58	57,50
Total	distance_Lab - distance_LCh  Regative Ranks Positive Ranks Ties Total  distance_RGB - distance_CMYK  Negative Ranks Positive Ranks Ties Total	9 <sup>q</sup>	6,94	62,50
distance_Lab - distance_LCh         Negative Ranks Positive Ranks Ties         5 <sup>t</sup> 8,60         43,00           Ties         2 <sup>u</sup> Total         15           distance_RGB - distance_CMYK         Negative Ranks Positive Ranks Ties         10 <sup>w</sup> 8,90         89,00           Ties         1x Total         15           distance_Lab - distance_CMYK         Negative Ranks Oy         ,00	distance_Lab - distance_LCh  Negative Ranks Positive Ranks Ties Total  distance_RGB - distance_CMYK  Negative Ranks Positive Ranks Ties Total	0 <sup>r</sup>		
distance_LCh         Positive Ranks         5 <sup>t</sup> 8,60         43,00           Ties         2 <sup>u</sup> 15         4,00         16,00           distance_RGB - distance_CMYK         Negative Ranks Positive Ranks 10 <sup>w</sup> 8,90         89,00         89,00           Ties         1 <sup>x</sup> 15         15           distance_Lab - distance_CMYK         Negative Ranks 0 <sup>y</sup> ,00         ,00	distance_LCh Positive Ranks Ties Total  distance_RGB - distance_CMYK Negative Ranks Positive Ranks Ties Total	15		
Ties 2 <sup>u</sup> Total 15  distance_RGB - Negative Ranks 4 <sup>v</sup> 4,00 16,00 89,00 Ties 1 <sup>x</sup> Total 15  distance_Lab - Negative Ranks 0 <sup>y</sup> ,00 ,00	distance_RGB - distance_CMYK  distance_CMYK  Ties  Total  Negative Ranks  Positive Ranks  Ties  Total	8 <sup>s</sup>	6,00	48,00
Total	distance_RGB - Negative Ranks Positive Ranks Ties Total	5 <sup>t</sup>	8,60	43,00
distance_RGB - distance_CMYK         Negative Ranks Positive Ranks Ranks Ties         4 v	distance_RGB - Negative Ranks distance_CMYK Positive Ranks Ties Total	2 <sup>u</sup>		
distance_CMYK         Positive Ranks         10 <sup>w</sup> 8,90         89,00           Ties         1x         15           Total         15         0         ,00           distance_Lab - distance_CMYK         Negative Ranks         0 <sup>y</sup> ,00         ,00	distance_CMYK Positive Ranks Ties Total	15		
Ties 1 <sup>x</sup> Total 15  distance_Lab - Negative Ranks 0 <sup>y</sup> ,00 ,00	Ties Total	4 <sup>v</sup>	4,00	16,00
Total 15  distance_Lab - Negative Ranks 0 y ,00 ,00	Total		8,90	89,00
distance_Lab - Negative Ranks 0 <sup>y</sup> ,00 ,00		1 <sup>x</sup>		
distance CMVK	distance Lab - Nogativo Panks	15		
distance CMVK		ολ	,00	,00
	diatanas CMVV	U	7,50	
Ties 1 <sup>aa</sup>	Ties	-	1	-
Total 15	Total	1 4 <sup>z</sup>		
distance_Lab - Negative Ranks 8 <sup>ab</sup> 8,56 68,50	distance_Lab - Negative Ranks	14 <sup>z</sup> 1 <sup>aa</sup>		
distance_RGB Positive Ranks 7 <sup>ac</sup> 7,36 51,50	distance BCB	14 <sup>z</sup> 1 <sup>aa</sup> 15	8,56	68,50
Ties 0 <sup>ad</sup>	Ties	14 <sup>z</sup> 1 <sup>aa</sup> 15		•
Total 15	Total	14 <sup>z</sup> 1 <sup>aa</sup> 15 8 <sup>ab</sup> 7 <sup>ac</sup>		•

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<sup>a</sup>

	distance_LCh - distance_HSV	distance_CMY K - distance_HSV	distance_RGB - distance_HSV	distance_Lab - distance_HSV	distance_CMY K - distance_LCh
Z	-1,475 <sup>b</sup>	-3,214 <sup>b</sup>	-3,187 <sup>b</sup>	-2,296 <sup>b</sup>	-1,990 <sup>b</sup>
Asymp. Sig. (2-tailed)	,140	,001	,001	,022	,047

# Test Statistics<sup>a</sup>

	distance_RGB - distance_LCh	distance_Lab - distance_LCh	distance_RGB - distance_CMY K	distance_Lab - distance_CMY K	distance_Lab - distance_RGB
Z	-,142 <sup>c</sup>	-,175 <sup>b</sup>	-2,304 <sup>c</sup>	-3,303 <sup>c</sup>	-,483 <sup>b</sup>
Asymp. Sig. (2- tailed)	,887	,861	,021	,001	,629

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