

```

GET
  FILE=' /Users/PauloGarcia/Desktop/blendingbox/Analysis/First Study/SPSS Files
/datasets/q16_anal_lab.sav'.
DATASET NAME DataSet7 WINDOW=FRONT.
EXAMINE VARIABLES=distance_expectedC1C2distance_HSV distance_LCh distance_CMY
K distance_RGB distance_Lab
  /PLOT BOXPLOT STEMLEAF NPLOT
  /COMPARE GROUPS
  /STATISTICS DESCRIPTIVES
  /CINTERVAL 95
  /MISSING LISTWISE
  /NOTOTAL.

```

Explore

Notes

Output Created		21-SEP-2016 17:48:58
Comments		
Input	Data	/Users/PauloGarcia/Desktop/blendingbox/Analysis/First Study/SPSS Files/datasets/q16_anal_lab.sav
	Active Dataset	DataSet7
	Filter	<none>
	Weight	<none>
	Split File	<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_expectedC1C2 distance_HSV distance_LCh distance_CMYK distance_RGB distance_Lab /PLOT BOXPLOT STEMLEAF NPLOT /COMPARE GROUPS /STATISTICS DESCRIPTIVES /INTERVAL 95 /MISSING LISTWISE /NOTOTAL.	
Resources	Processor Time	00:00:03,01	
	Elapsed Time	00:00:03,00	

[DataSet7] /Users/PauloGarcia/Desktop/blendingbox/Analysis/First Study/SPSS Files/datasets/ql6_anal_lab.sav

Case Processing Summary

	Cases					
	Valid		Missing		Total	
	N	Percent	N	Percent	N	Percent
distance_expectedC1C2	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 C1C2	Mean		.6780	.05681
	95% Confidence Interval for Mean	Lower Bound Upper Bound	.5562 .7998	
	5% Trimmed Mean		.6828	
	Median		.7000	
	Variance		.048	
	Std. Deviation		.22001	
	Minimum		.30	
	Maximum		.97	
	Range		.67	
	Interquartile Range		.38	
	Skewness		-.634	.580
	Kurtosis		-.820	1.121
distance_HSV	Mean		.2087	.02679
	95% Confidence Interval for Mean	Lower Bound Upper Bound	.1512 .2661	
	5% Trimmed Mean		.2096	
	Median		.2300	
	Variance		.011	
	Std. Deviation		.10378	
	Minimum		.01	
	Maximum		.39	
	Range		.38	
	Interquartile Range		.12	
	Skewness		-.327	.580
	Kurtosis		-.296	1.121
distance_LCh	Mean		.2187	.03142
	95% Confidence Interval for Mean	Lower Bound Upper Bound	.1513 .2861	
	5% Trimmed Mean		.2152	
	Median		.2500	
	Variance		.015	
	Std. Deviation		.12171	
	Minimum		.07	
	Maximum		.43	
	Range		.36	
	Interquartile Range		.23	
	Skewness		.292	.580
	Kurtosis		-1.227	1.121
distance_CMYK	Mean		.1033	.01319
	95% Confidence Interval for Mean	Lower Bound Upper Bound	.0750 .1316	
	5% Trimmed Mean		.1026	
	Median		.1000	

Descriptives

			Statistic	Std. Error
	Variance		,003	
	Std. Deviation		.05108	
	Minimum		.03	
	Maximum		.19	
	Range		.16	
	Interquartile Range		.09	
	Skewness		,163	,580
	Kurtosis		-1,192	1,121
distance_RGB	Mean		.1593	.01763
	95% Confidence Interval for Mean	Lower Bound	.1215	
		Upper Bound	.1972	
	5% Trimmed Mean		.1559	
	Median		.1700	
	Variance		,005	
	Std. Deviation		.06829	
	Minimum		.05	
	Maximum		.33	
	Range		.28	
	Interquartile Range		.08	
	Skewness		,715	,580
	Kurtosis		1,961	1,121
distance_Lab	Mean		.1240	.02033
	95% Confidence Interval for Mean	Lower Bound	.0804	
		Upper Bound	.1676	
	5% Trimmed Mean		.1189	
	Median		.1100	
	Variance		,006	
	Std. Deviation		.07872	
	Minimum		.02	
	Maximum		.32	
	Range		.30	
	Interquartile Range		.11	
	Skewness		,964	,580
	Kurtosis		1,382	1,121

Tests of Normality

	Kolmogorov-Smirnov ^a			Shapiro-Wilk		
	Statistic	df	Sig.	Statistic	df	Sig.
distance_expectedC1C2	,161	15	,200 [*]	,910	15	,136
distance_HSV	,123	15	,200 [*]	,973	15	,900
distance_LCh	,180	15	,200 [*]	,919	15	,189
distance_CMYK	,126	15	,200 [*]	,952	15	,562
distance_RGB	,193	15	,136	,930	15	,270
distance_Lab	,136	15	,200 [*]	,933	15	,299

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

a. Lilliefors Significance Correction

NPAR TESTS

```

/FRIEDMAN=distance_expectedC1C2distance_HSVdistance_LChdistance_CMYKdistance_RGBdistance_Lab
/STATISTICS DESCRIPTIVES QUANTILES
/MISSING LISTWISE.

```

NPar Tests

Notes

Output Created		21-SEP-2016 17:49:44
Comments		
Input	Data	/Users/PauloGarcia/Desktop/blendingbox/Analysis/First Study/SPSS Files/datasets/q16_anal_lab.sav
	Active Dataset	DataSet7
	Filter	<none>
	Weight	<none>
	Split File	<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_e xpectedC1C2 distance_HSV distance_LCh distance_CMYK distance_RGB distance_Lab /STATISTICS DESCRIPTIVES QUARTILES /MISSING LISTWISE.	
Resources	Processor Time	00:00:00,00	
	Elapsed Time	00:00:00,00	
	Number of Cases Allowed ^a	71493	

a. Based on availability of workspace memory.

Descriptive Statistics

	N	Mean	Std. Deviation	Minimum	Maximum	Percentile
						25th
distance_expected C1C2	15	.6780	.22001	.30	.97	.4800
distance_HSV	15	.2087	.10378	.01	.39	.1500
distance_LCh	15	.2187	.12171	.07	.43	.0900
distance_CMYK	15	.1033	.05108	.03	.19	.0600
distance_RGB	15	.1593	.06829	.05	.33	.1100
distance_Lab	15	.1240	.07872	.02	.32	.0700

Descriptive Statistics

	Percentiles	
	50th (Median)	75th
distance_expected C1C2	.7000	.8600
distance_HSV	.2300	.2700
distance_LCh	.2500	.3200
distance_CMYK	.1000	.1500
distance_RGB	.1700	.1900
distance_Lab	.1100	.1800

Friedman Test

Ranks

	Mean Rank
distance_expected C1C2	5,93
distance_HSV	3,63
distance_LCh	3,73
distance_CMYK	2,03
distance_RGB	3,43
distance_Lab	2,23

Test Statistics^a

N	15
Chi-Square	42,202
df	5
Asymp. Sig.	,000

a. Friedman Test

```

NPAR TESTS
  /WILCOXON=distance_HSV distance_HSV distance_HSV distance_HSV distance_LCh d
istance_LCh distance_LCh distance_LCh distance_CMYK distance_CMYK distance_RGB WITH distanc
e_LCh distance_CMYK distance_RGB distance_Lab distance_CMYK distance_RGB dista
nce_Lab distance_RGB distance_Lab distance_Lab (PAIRED)
  /STATISTICS DESCRIPTIVES QUANTILES
  /MISSING ANALYSIS.

```

NPar Tests

Notes

Output Created		21-SEP-2016 17:50:31
Comments		
Input	Data	/Users/PauloGarcia/Desktop/blendingbox/Analysis/First Study/SPSS Files/datasets/q16_anal_lab.sav
	Active Dataset	DataSet7
	Filter	<none>
	Weight	<none>
	Split File	<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.
Syntax		NPAR TESTS /WILCOXON=distance_HSV distance_HSV distance_HSV distance_LCh distance_LCh distance_LCh distance_CMYK distance_CMYK distance_RGB WITH distance_LCh distance_CMYK distance_RGB distance_Lab distance_CMYK distance_RGB distance_Lab distance_RGB distance_Lab (PAIRED) /STATISTICS DESCRIPTIVES QUANTILES /MISSING ANALYSIS.
Resources	Processor Time	00:00:00,01
	Elapsed Time	00:00:00,00
	Number of Cases Allowed ^a	78643

a. Based on availability of workspace memory.

Descriptive Statistics

	N	Mean	Std. Deviation	Minimum	Maximum	Percentile
						25th
distance_HSV	15	.2087	.10378	.01	.39	.1500
distance_LCh	15	.2187	.12171	.07	.43	.0900
distance_CMYK	15	.1033	.05108	.03	.19	.0600
distance_RGB	15	.1593	.06829	.05	.33	.1100
distance_Lab	15	.1240	.07872	.02	.32	.0700

Descriptive Statistics

	Percentiles	
	50th (Median)	75th
distance_HSV	.2300	.2700
distance_LCh	.2500	.3200
distance_CMYK	.1000	.1500
distance_RGB	.1700	.1900
distance_Lab	.1100	.1800

Wilcoxon Signed Ranks Test

Ranks

		N	Mean Rank	Sum of Ranks
distance_LCh - distance_HSV	Negative Ranks	6 ^a	8,42	50,50
	Positive Ranks	9 ^b	7,72	69,50
	Ties	0 ^c		
	Total	15		
distance_CMYK - distance_HSV	Negative Ranks	11 ^d	9,50	104,50
	Positive Ranks	4 ^e	3,88	15,50
	Ties	0 ^f		
	Total	15		
distance_RGB - distance_HSV	Negative Ranks	11 ^g	7,68	84,50
	Positive Ranks	4 ^h	8,88	35,50
	Ties	0 ⁱ		
	Total	15		
distance_Lab - distance_HSV	Negative Ranks	11 ^j	8,14	89,50
	Positive Ranks	3 ^k	5,17	15,50
	Ties	1 ^l		
	Total	15		
distance_CMYK - distance_LCh	Negative Ranks	10 ^m	10,35	103,50
	Positive Ranks	5 ⁿ	3,30	16,50
	Ties	0 ^o		
	Total	15		
distance_RGB - distance_LCh	Negative Ranks	10 ^p	9,05	90,50
	Positive Ranks	5 ^q	5,90	29,50

Ranks

		N	Mean Rank	Sum of Ranks
	Ties	0 ^r		
	Total	15		
distance_Lab - distance_LCh	Negative Ranks	11 ^s	9,00	99,00
	Positive Ranks	4 ^t	5,25	21,00
	Ties	0 ^u		
	Total	15		
distance_RGB - distance_CMYK	Negative Ranks	0 ^v	,00	,00
	Positive Ranks	15 ^w	8,00	120,00
	Ties	0 ^x		
	Total	15		
distance_Lab - distance_CMYK	Negative Ranks	5 ^y	4,90	24,50
	Positive Ranks	7 ^z	7,64	53,50
	Ties	3 ^{aa}		
	Total	15		
distance_Lab - distance_RGB	Negative Ranks	12 ^{ab}	8,21	98,50
	Positive Ranks	2 ^{ac}	3,25	6,50
	Ties	1 ^{ad}		
	Total	15		

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
l. 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	-,540 ^b	-2,529 ^c	-1,392 ^c	-2,324 ^c	-2,472 ^c
Asymp. Sig. (2-tailed)	,589	,011	,164	,020	,013

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	-1,736 ^c	-2,217 ^c	-3,416 ^b	-1,144 ^b	-2,899 ^c
Asymp. Sig. (2-tailed)	,083	,027	,001	,253	,004

a. Wilcoxon Signed Ranks Test

b. Based on negative ranks.

c. Based on positive ranks.