

```

GET
  FILE= '/Users/PauloGarcia/Desktop/blendingbox/Analysis/First Study/SPSS Files
/datasets/q15_anal_lab.sav'.
DATASET NAME DataSet6 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 17:46:20
Comments		
Input	Data	/Users/PauloGarcia/Desktop/blendingbox/Analysis/First Study/SPSS Files/datasets/q15_anal_lab.sav
	Active Dataset	DataSet6
	Filter	<none>
	Weight	<none>
	Split File	<none>
	N of Rows in Working Data File	16
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 NPLOT /COMPARE GROUPS /STATISTICS DESCRIPTIVES /INTERVAL 95 /MISSING LISTWISE /NOTOTAL.	
Resources	Processor Time	00:00:02,81	
	Elapsed Time	00:00:03,00	

[DataSet6] /Users/PauloGarcia/Desktop/blendingbox/Analysis/First Study/SPSS Files/datasets/q15_anal_lab.sav

Case Processing Summary

	Cases					
	Valid		Missing		Total	
	N	Percent	N	Percent	N	Percent
distance_expectedC1C2	16	100,0%	0	0,0%	16	100,0%
distance_HSV	16	100,0%	0	0,0%	16	100,0%
distance_LCh	16	100,0%	0	0,0%	16	100,0%
distance_CMYK	16	100,0%	0	0,0%	16	100,0%
distance_RGB	16	100,0%	0	0,0%	16	100,0%
distance_Lab	16	100,0%	0	0,0%	16	100,0%

Descriptives

			Statistic	Std. Error
distance_expected C1C2	Mean		.6869	.06968
	95% Confidence Interval for Mean	Lower Bound Upper Bound	.5384 .8354	
	5% Trimmed Mean		.6960	
	Median		.7400	
	Variance		.078	
	Std. Deviation		.27870	
	Minimum		.17	
	Maximum		1.04	
	Range		.87	
	Interquartile Range		.52	
	Skewness		-.608	.564
	Kurtosis		-.918	1.091
distance_HSV	Mean		.0900	.00890
	95% Confidence Interval for Mean	Lower Bound Upper Bound	.0710 .1090	
	5% Trimmed Mean		.0889	
	Median		.0950	
	Variance		.001	
	Std. Deviation		.03559	
	Minimum		.02	
	Maximum		.18	
	Range		.16	
	Interquartile Range		.04	
	Skewness		.395	.564
	Kurtosis		2.378	1.091
distance_LCh	Mean		.3031	.01968
	95% Confidence Interval for Mean	Lower Bound Upper Bound	.2612 .3451	
	5% Trimmed Mean		.3107	
	Median		.3100	
	Variance		.006	
	Std. Deviation		.07872	
	Minimum		.07	
	Maximum		.40	
	Range		.33	
	Interquartile Range		.07	
	Skewness		-1.699	.564
	Kurtosis		4.634	1.091
distance_CMYK	Mean		.0625	.00674
	95% Confidence Interval for Mean	Lower Bound Upper Bound	.0481 .0769	
	5% Trimmed Mean		.0622	
	Median		.0650	

Descriptives

			Statistic	Std. Error
	Variance		,001	
	Std. Deviation		.02696	
	Minimum		.02	
	Maximum		.11	
	Range		.09	
	Interquartile Range		.05	
	Skewness		,047	,564
	Kurtosis		-,861	1,091
distance_RGB	Mean		.1100	.01176
	95% Confidence Interval for Mean	Lower Bound	.0849	
		Upper Bound	.1351	
	5% Trimmed Mean		.1089	
	Median		.1100	
	Variance		,002	
	Std. Deviation		.04705	
	Minimum		.04	
	Maximum		.20	
	Range		.16	
	Interquartile Range		.06	
	Skewness		,347	,564
	Kurtosis		-,232	1,091
distance_Lab	Mean		.1256	.01557
	95% Confidence Interval for Mean	Lower Bound	.0924	
		Upper Bound	.1588	
	5% Trimmed Mean		.1240	
	Median		.1200	
	Variance		,004	
	Std. Deviation		.06229	
	Minimum		.04	
	Maximum		.24	
	Range		.20	
	Interquartile Range		.10	
	Skewness		,349	,564
	Kurtosis		-,698	1,091

Tests of Normality

	Kolmogorov-Smirnov ^a			Shapiro-Wilk		
	Statistic	df	Sig.	Statistic	df	Sig.
distance_expectedC1C2	,163	16	,200 [*]	,911	16	,120
distance_HSV	,225	16	,030	,902	16	,087
distance_LCh	,212	16	,053	,842	16	,010
distance_CMYK	,151	16	,200 [*]	,944	16	,398
distance_RGB	,148	16	,200 [*]	,954	16	,551
distance_Lab	,127	16	,200 [*]	,953	16	,533

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

a. Lilliefors Significance Correction

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

```

NPar Tests

Notes

Output Created		21-SEP-2016 17:46:40
Comments		
Input	Data	/Users/PauloGarcia/Desktop/blendingbox/Analysis/First Study/SPSS Files/datasets/q15_anal_lab.sav
	Active Dataset	DataSet6
	Filter	<none>
	Weight	<none>
	Split File	<none>
	N of Rows in Working Data File	16
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

	N	Mean	Std. Deviation	Minimum	Maximum	Percentile
						25th
distance_expected C1C2	16	.6869	.27870	.17	1.04	.4000
distance_HSV	16	.0900	.03559	.02	.18	.0650
distance_LCh	16	.3031	.07872	.07	.40	.2800
distance_CMYK	16	.0625	.02696	.02	.11	.0325
distance_RGB	16	.1100	.04705	.04	.20	.0725
distance_Lab	16	.1256	.06229	.04	.24	.0700

Descriptive Statistics

	Percentiles	
	50th (Median)	75th
distance_expected C1C2	.7400	.9175
distance_HSV	.0950	.1075
distance_LCh	.3100	.3500
distance_CMYK	.0650	.0850
distance_RGB	.1100	.1300
distance_Lab	.1200	.1750

Friedman Test

Ranks

	Mean Rank
distance_expected C1C2	5,78
distance_HSV	2,50
distance_LCh	4,97
distance_CMYK	1,34
distance_RGB	2,94
distance_Lab	3,47

Test Statistics^a

N	16
Chi-Square	63,068
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_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.

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NPar Tests

Notes

Output Created		21-SEP-2016 17:47:17
Comments		
Input	Data	/Users/PauloGarcia/Desktop/blendingbox/Analysis/First Study/SPSS Files/datasets/q15_anal_lab.sav
	Active Dataset	DataSet6
	Filter	<none>
	Weight	<none>
	Split File	<none>
	N of Rows in Working Data File	16
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	16	.0900	.03559	.02	.18	.0650
distance_LCh	16	.3031	.07872	.07	.40	.2800
distance_CMYK	16	.0625	.02696	.02	.11	.0325
distance_RGB	16	.1100	.04705	.04	.20	.0725
distance_Lab	16	.1256	.06229	.04	.24	.0700

Descriptive Statistics

	Percentiles	
	50th (Median)	75th
distance_HSV	.0950	.1075
distance_LCh	.3100	.3500
distance_CMYK	.0650	.0850
distance_RGB	.1100	.1300
distance_Lab	.1200	.1750

Wilcoxon Signed Ranks Test

Ranks

		N	Mean Rank	Sum of Ranks
distance_LCh - distance_HSV	Negative Ranks	1 ^a	1,50	1,50
	Positive Ranks	15 ^b	8,97	134,50
	Ties	0 ^c		
	Total	16		
distance_CMYK - distance_HSV	Negative Ranks	12 ^d	9,33	112,00
	Positive Ranks	4 ^e	6,00	24,00
	Ties	0 ^f		
	Total	16		
distance_RGB - distance_HSV	Negative Ranks	4 ^g	4,75	19,00
	Positive Ranks	8 ^h	7,38	59,00
	Ties	4 ⁱ		
	Total	16		
distance_Lab - distance_HSV	Negative Ranks	3 ^j	4,83	14,50
	Positive Ranks	9 ^k	7,06	63,50
	Ties	4 ^l		
	Total	16		
distance_CMYK - distance_LCh	Negative Ranks	15 ^m	9,00	135,00
	Positive Ranks	1 ⁿ	1,00	1,00
	Ties	0 ^o		
	Total	16		
distance_RGB - distance_LCh	Negative Ranks	15 ^p	9,00	135,00
	Positive Ranks	1 ^q	1,00	1,00

Ranks

		N	Mean Rank	Sum of Ranks
	Ties	0 ^r		
	Total	16		
distance_Lab - distance_LCh	Negative Ranks	15 ^s	8,97	134,50
	Positive Ranks	1 ^t	1,50	1,50
	Ties	0 ^u		
	Total	16		
distance_RGB - distance_CMYK	Negative Ranks	0 ^v	,00	,00
	Positive Ranks	16 ^w	8,50	136,00
	Ties	0 ^x		
	Total	16		
distance_Lab - distance_CMYK	Negative Ranks	0 ^y	,00	,00
	Positive Ranks	15 ^z	8,00	120,00
	Ties	1 ^{aa}		
	Total	16		
distance_Lab - distance_RGB	Negative Ranks	1 ^{ab}	2,50	2,50
	Positive Ranks	9 ^{ac}	5,83	52,50
	Ties	6 ^{ad}		
	Total	16		

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	-3,443 ^b	-2,282 ^c	-1,574 ^b	-1,926 ^b	-3,486 ^c
Asymp. Sig. (2-tailed)	,001	,022	,116	,054	,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	-3,472 ^c	-3,444 ^c	-3,523 ^b	-3,410 ^b	-2,572 ^b
Asymp. Sig. (2-tailed)	,001	,001	,000	,001	,010

a. Wilcoxon Signed Ranks Test

b. Based on negative ranks.

c. Based on positive ranks.