

```

GET
  FILE='/Users/PauloGarcia/Desktop/blendingbox/Analysis/First Study/SPSS Files
/datasets/q4_anal_lab.sav'.
DATASET NAME DataSet4 WINDOW=FRONT.
DATASET ACTIVATE DataSet4.
DATASET CLOSE DataSet3.
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 16:52:36
Comments		
Input	Data	/Users/PauloGarcia/Desktop/blendingbox/Analysis/First Study/SPSS Files/datasets/q4_anal_lab.sav
	Active Dataset	DataSet4
	Filter	<none>
	Weight	<none>
	Split File	<none>
	N of Rows in Working Data File	21
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	00:00:02,93
	Elapsed Time	00:00:03,00

Case Processing Summary

	Cases					
	Valid		Missing		Total	
	N	Percent	N	Percent	N	Percent
distance_expectedC1C2	21	100,0%	0	0,0%	21	100,0%
distance_HSV	21	100,0%	0	0,0%	21	100,0%
distance_LCh	21	100,0%	0	0,0%	21	100,0%
distance_CMYK	21	100,0%	0	0,0%	21	100,0%
distance_RGB	21	100,0%	0	0,0%	21	100,0%
distance_Lab	21	100,0%	0	0,0%	21	100,0%

Descriptives

			Statistic	Std. Error
distance_expected C1C2	Mean		.5362	.05114
	95% Confidence Interval for Mean	Lower Bound Upper Bound	.4295 .6429	
	5% Trimmed Mean		.5353	
	Median		.6400	
	Variance		.055	
	Std. Deviation		.23434	
	Minimum		.24	
	Maximum		.85	
	Range		.61	
	Interquartile Range		.48	
	Skewness		-.094	.501
	Kurtosis		-1.847	.972
distance_HSV	Mean		.1162	.02831
	95% Confidence Interval for Mean	Lower Bound Upper Bound	.0571 .1753	
	5% Trimmed Mean		.1031	
	Median		.0700	
	Variance		.017	
	Std. Deviation		.12975	
	Minimum		.01	
	Maximum		.46	
	Range		.45	
	Interquartile Range		.11	
	Skewness		1.767	.501
	Kurtosis		2.255	.972
distance_LCh	Mean		.2090	.02568
	95% Confidence Interval for Mean	Lower Bound Upper Bound	.1555 .2626	
	5% Trimmed Mean		.2067	
	Median		.1800	
	Variance		.014	
	Std. Deviation		.11768	
	Minimum		.02	
	Maximum		.44	
	Range		.42	
	Interquartile Range		.15	
	Skewness		.566	.501
	Kurtosis		-.150	.972
distance_CMYK	Mean		.1971	.01593
	95% Confidence Interval for Mean	Lower Bound Upper Bound	.1639 .2304	
	5% Trimmed Mean		.1990	
	Median		.2100	

Descriptives

			Statistic	Std. Error
	Variance		,005	
	Std. Deviation		.07302	
	Minimum		.03	
	Maximum		.33	
	Range		.30	
	Interquartile Range		.10	
	Skewness		-,449	,501
	Kurtosis		,497	,972
distance_RGB	Mean		.2595	.01958
	95% Confidence Interval for Mean	Lower Bound	.2187	
		Upper Bound	.3004	
	5% Trimmed Mean		.2650	
	Median		.2800	
	Variance		,008	
	Std. Deviation		.08975	
	Minimum		.02	
	Maximum		.40	
	Range		.38	
	Interquartile Range		.10	
	Skewness		-1,293	,501
	Kurtosis		2,184	,972
distance_Lab	Mean		.2005	.02002
	95% Confidence Interval for Mean	Lower Bound	.1587	
		Upper Bound	.2422	
	5% Trimmed Mean		.2000	
	Median		.2200	
	Variance		,008	
	Std. Deviation		.09173	
	Minimum		.03	
	Maximum		.38	
	Range		.35	
	Interquartile Range		.15	
	Skewness		-,002	,501
	Kurtosis		-,629	,972

Tests of Normality

	Kolmogorov-Smirnov ^a			Shapiro-Wilk		
	Statistic	df	Sig.	Statistic	df	Sig.
distance_expectedC1C2	,195	21	,036	,844	21	,003
distance_HSV	,306	21	,000	,733	21	,000
distance_LCh	,169	21	,121	,940	21	,219
distance_CMYK	,122	21	,200 [*]	,962	21	,564
distance_RGB	,195	21	,036	,878	21	,013
distance_Lab	,126	21	,200 [*]	,974	21	,821

*. 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 16:53:10
Comments		
Input	Data	/Users/PauloGarcia/Desktop/blendingbox/Analysis/First Study/SPSS Files/datasets/q4_anal_lab.sav
	Active Dataset	DataSet4
	Filter	<none>
	Weight	<none>
	Split File	<none>
	N of Rows in Working Data File	21
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	21	.5362	.23434	.24	.85	.2900
distance_HSV	21	.1162	.12975	.01	.46	.0350
distance_LCh	21	.2090	.11768	.02	.44	.1400
distance_CMYK	21	.1971	.07302	.03	.33	.1500
distance_RGB	21	.2595	.08975	.02	.40	.2200
distance_Lab	21	.2005	.09173	.03	.38	.1200

Descriptive Statistics

	Percentiles	
	50th (Median)	75th
distance_expected C1C2	.6400	.7700
distance_HSV	.0700	.1400
distance_LCh	.1800	.2850
distance_CMYK	.2100	.2500
distance_RGB	.2800	.3150
distance_Lab	.2200	.2650

Friedman Test

Ranks

	Mean Rank
distance_expected C1C2	5,81
distance_HSV	1,88
distance_LCh	3,50
distance_CMYK	2,86
distance_RGB	4,38
distance_Lab	2,57

Test Statistics^a

N	21
Chi-Square	60,785
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 16:53:59
Comments		
Input	Data	/Users/PauloGarcia/Desktop/blendingbox/Analysis/First Study/SPSS Files/datasets/q4_anal_I ab.sav
	Active Dataset	DataSet4
	Filter	<none>
	Weight	<none>
	Split File	<none>
	N of Rows in Working Data File	21
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	21	.1162	.12975	.01	.46	.0350
distance_LCh	21	.2090	.11768	.02	.44	.1400
distance_CMYK	21	.1971	.07302	.03	.33	.1500
distance_RGB	21	.2595	.08975	.02	.40	.2200
distance_Lab	21	.2005	.09173	.03	.38	.1200

Descriptive Statistics

	Percentiles	
	50th (Median)	75th
distance_HSV	.0700	.1400
distance_LCh	.1800	.2850
distance_CMYK	.2100	.2500
distance_RGB	.2800	.3150
distance_Lab	.2200	.2650

Wilcoxon Signed Ranks Test

Ranks

		N	Mean Rank	Sum of Ranks
distance_LCh - distance_HSV	Negative Ranks	3 ^a	14,17	42,50
	Positive Ranks	17 ^b	9,85	167,50
	Ties	1 ^c		
	Total	21		
distance_CMYK - distance_HSV	Negative Ranks	4 ^d	14,38	57,50
	Positive Ranks	17 ^e	10,21	173,50
	Ties	0 ^f		
	Total	21		
distance_RGB - distance_HSV	Negative Ranks	3 ^g	12,83	38,50
	Positive Ranks	18 ^h	10,69	192,50
	Ties	0 ⁱ		
	Total	21		
distance_Lab - distance_HSV	Negative Ranks	4 ^j	12,63	50,50
	Positive Ranks	15 ^k	9,30	139,50
	Ties	2 ^l		
	Total	21		
distance_CMYK - distance_LCh	Negative Ranks	13 ^m	10,58	137,50
	Positive Ranks	8 ⁿ	11,69	93,50
	Ties	0 ^o		
	Total	21		
distance_RGB - distance_LCh	Negative Ranks	7 ^p	10,57	74,00
	Positive Ranks	14 ^q	11,21	157,00

Ranks

		N	Mean Rank	Sum of Ranks
	Ties	0^r		
	Total	21		
distance_Lab - distance_LCh	Negative Ranks	15^s	9,57	143,50
	Positive Ranks	6^t	14,58	87,50
	Ties	0^u		
	Total	21		
distance_RGB - distance_CMYK	Negative Ranks	2^v	1,50	3,00
	Positive Ranks	18^w	11,50	207,00
	Ties	1^x		
	Total	21		
distance_Lab - distance_CMYK	Negative Ranks	10^y	7,80	78,00
	Positive Ranks	8^z	11,63	93,00
	Ties	3^{aa}		
	Total	21		
distance_Lab - distance_RGB	Negative Ranks	19^{ab}	11,00	209,00
	Positive Ranks	1^{ac}	1,00	1,00
	Ties	1^{ad}		
	Total	21		

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	-2,334 ^b	-2,018 ^b	-2,677 ^b	-1,792 ^b	-,766 ^c
Asymp. Sig. (2-tailed)	,020	,044	,007	,073	,444

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	-1,446 ^b	-,976 ^c	-3,827 ^b	-,328 ^b	-3,894 ^c
Asymp. Sig. (2-tailed)	,148	,329	,000	,743	,000

a. Wilcoxon Signed Ranks Test

b. Based on negative ranks.

c. Based on positive ranks.