

```

GET
  FILE=' /Users/PauloGarcia/Desktop/blendingbox/Analysis/First Study/SPSS Files
/datasets/q3_anal_lab.sav'.
DATASET NAME DataSet3 WINDOW=FRONT.
DATASET ACTIVATE DataSet3.
DATASET CLOSE DataSet2.
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 16:48:22
Comments		
Input	Data	/Users/PauloGarcia/Desktop/blendingbox/Analysis/First Study/SPSS Files/datasets/q3_anal_lab.sav
	Active Dataset	DataSet3
	Filter	<none>
	Weight	<none>
	Split File	<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_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	00:00:03,06
	Elapsed Time	00:00:03,00

Case Processing Summary

	Cases					
	Valid		Missing		Total	
	N	Percent	N	Percent	N	Percent
distance_expectedC1C2	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 C1C2	Mean		.5391	.03355
	95% Confidence Interval for Mean	Lower Bound Upper Bound	.4693 .6089	
	5% Trimmed Mean		.5385	
	Median		.5900	
	Variance		.025	
	Std. Deviation		.15736	
	Minimum		.31	
	Maximum		.78	
	Range		.47	
	Interquartile Range		.27	
	Skewness		-.114	.491
	Kurtosis		-1.372	.953
distance_HSV	Mean		.0941	.02624
	95% Confidence Interval for Mean	Lower Bound Upper Bound	.0395 .1487	
	5% Trimmed Mean		.0797	
	Median		.0450	
	Variance		.015	
	Std. Deviation		.12308	
	Minimum		.02	
	Maximum		.43	
	Range		.41	
	Interquartile Range		.03	
	Skewness		2.248	.491
	Kurtosis		3.577	.953
distance_LCh	Mean		.2300	.01248
	95% Confidence Interval for Mean	Lower Bound Upper Bound	.2040 .2560	
	5% Trimmed Mean		.2258	
	Median		.2150	
	Variance		.003	
	Std. Deviation		.05855	
	Minimum		.16	
	Maximum		.38	
	Range		.22	
	Interquartile Range		.08	
	Skewness		1.055	.491
	Kurtosis		.837	.953
distance_CMYK	Mean		.0609	.00720
	95% Confidence Interval for Mean	Lower Bound Upper Bound	.0459 .0759	
	5% Trimmed Mean		.0588	
	Median		.0500	

Descriptives

			Statistic	Std. Error
	Variance		,001	
	Std. Deviation		.03379	
	Minimum		.02	
	Maximum		.14	
	Range		.12	
	Interquartile Range		.05	
	Skewness		,964	,491
	Kurtosis		,104	,953
distance_RGB	Mean		.1114	.01286
	95% Confidence Interval for Mean	Lower Bound	.0846	
		Upper Bound	.1381	
	5% Trimmed Mean		.1088	
	Median		.0950	
	Variance		,004	
	Std. Deviation		.06034	
	Minimum		.04	
	Maximum		.23	
	Range		.19	
	Interquartile Range		.09	
	Skewness		,737	,491
	Kurtosis		-,516	,953
distance_Lab	Mean		.1227	.00835
	95% Confidence Interval for Mean	Lower Bound	.1054	
		Upper Bound	.1401	
	5% Trimmed Mean		.1191	
	Median		.1100	
	Variance		,002	
	Std. Deviation		.03918	
	Minimum		.08	
	Maximum		.23	
	Range		.15	
	Interquartile Range		.03	
	Skewness		1,771	,491
	Kurtosis		2,861	,953

Tests of Normality

	Kolmogorov-Smirnov ^a			Shapiro-Wilk		
	Statistic	df	Sig.	Statistic	df	Sig.
distance_expectedC1C2	,172	22	,088	,921	22	,080
distance_HSV	,409	22	,000	,532	22	,000
distance_LCh	,295	22	,000	,870	22	,008
distance_CMYK	,193	22	,033	,885	22	,015
distance_RGB	,138	22	,200*	,903	22	,034
distance_Lab	,245	22	,001	,792	22	,000

*. 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 16:50:04
Comments		
Input	Data	/Users/PauloGarcia/Desktop/blendingbox/Analysis/First Study/SPSS Files/datasets/q3_anal_lab.sav
	Active Dataset	DataSet3
	Filter	<none>
	Weight	<none>
	Split File	<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

	N	Mean	Std. Deviation	Minimum	Maximum	Percentile
						25th
distance_expected C1C2	22	.5391	.15736	.31	.78	.4050
distance_HSV	22	.0941	.12308	.02	.43	.0400
distance_LCh	22	.2300	.05855	.16	.38	.2000
distance_CMYK	22	.0609	.03379	.02	.14	.0300
distance_RGB	22	.1114	.06034	.04	.23	.0600
distance_Lab	22	.1227	.03918	.08	.23	.1000

Descriptive Statistics

	Percentiles	
	50th (Median)	75th
distance_expected C1C2	.5900	.6725
distance_HSV	.0450	.0725
distance_LCh	.2150	.2800
distance_CMYK	.0500	.0825
distance_RGB	.0950	.1475
distance_Lab	.1100	.1300

Friedman Test

Ranks

	Mean Rank
distance_expected C1C2	5,95
distance_HSV	2,14
distance_LCh	4,77
distance_CMYK	1,59
distance_RGB	3,16
distance_Lab	3,39

Test Statistics^a

N	22
Chi-Square	84,448
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 16:51:16
Comments		
Input	Data	/Users/PauloGarcia/Desktop/blendingbox/Analysis/First Study/SPSS Files/datasets/q3_anal_I ab.sav
	Active Dataset	DataSet3
	Filter	<none>
	Weight	<none>
	Split File	<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 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	22	.0941	.12308	.02	.43	.0400
distance_LCh	22	.2300	.05855	.16	.38	.2000
distance_CMYK	22	.0609	.03379	.02	.14	.0300
distance_RGB	22	.1114	.06034	.04	.23	.0600
distance_Lab	22	.1227	.03918	.08	.23	.1000

Descriptive Statistics

	Percentiles	
	50th (Median)	75th
distance_HSV	.0450	.0725
distance_LCh	.2150	.2800
distance_CMYK	.0500	.0825
distance_RGB	.0950	.1475
distance_Lab	.1100	.1300

Wilcoxon Signed Ranks Test

Ranks

		N	Mean Rank	Sum of Ranks
distance_LCh - distance_HSV	Negative Ranks	3 ^a	8,67	26,00
	Positive Ranks	19 ^b	11,95	227,00
	Ties	0 ^c		
	Total	22		
distance_CMYK - distance_HSV	Negative Ranks	9 ^d	12,89	116,00
	Positive Ranks	11 ^e	8,55	94,00
	Ties	2 ^f		
	Total	22		
distance_RGB - distance_HSV	Negative Ranks	8 ^g	9,88	79,00
	Positive Ranks	14 ^h	12,43	174,00
	Ties	0 ⁱ		
	Total	22		
distance_Lab - distance_HSV	Negative Ranks	3 ^j	21,00	63,00
	Positive Ranks	19 ^k	10,00	190,00
	Ties	0 ^l		
	Total	22		
distance_CMYK - distance_LCh	Negative Ranks	22 ^m	11,50	253,00
	Positive Ranks	0 ⁿ	,00	,00
	Ties	0 ^o		
	Total	22		
distance_RGB - distance_LCh	Negative Ranks	21 ^p	12,00	252,00
	Positive Ranks	1 ^q	1,00	1,00

Ranks

		N	Mean Rank	Sum of Ranks
	Ties	0 ^r		
	Total	22		
distance_Lab - distance_LCh	Negative Ranks	21 ^s	12,00	252,00
	Positive Ranks	1 ^t	1,00	1,00
	Ties	0 ^u		
	Total	22		
distance_RGB - distance_CMYK	Negative Ranks	0 ^v	,00	,00
	Positive Ranks	22 ^w	11,50	253,00
	Ties	0 ^x		
	Total	22		
distance_Lab - distance_CMYK	Negative Ranks	1 ^y	1,00	1,00
	Positive Ranks	21 ^z	12,00	252,00
	Ties	0 ^{aa}		
	Total	22		
distance_Lab - distance_RGB	Negative Ranks	7 ^{ab}	5,93	41,50
	Positive Ranks	8 ^{ac}	9,81	78,50
	Ties	7 ^{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
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	-3,268 ^b	-,412 ^c	-1,544 ^b	-2,076 ^b	-4,113 ^c
Asymp. Sig. (2-tailed)	,001	,680	,123	,038	,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	-4,080 ^c	-4,081 ^c	-4,117 ^b	-4,087 ^b	-1,054 ^b
Asymp. Sig. (2-tailed)	,000	,000	,000	,000	,292

a. Wilcoxon Signed Ranks Test

b. Based on negative ranks.

c. Based on positive ranks.