

```

EXAMINE VARIABLES=distance_expectedC1C2distance_HSVdistance_LChdistance_CMY
K distance_RGBdistance_Lab
/PLOT BOXPLOT STEMLEAF NPLOT
/COMPARE GROUPS
/STATISTICS DESCRIPTIVES
/CINTERVAL 95
/MISSING LISTWISE
/NOTOTAL.

```

Explore

Notes

Output Created		21-SEP-2016 16:30:14
Comments		
Input	Data	/Users/PauloGarcia/Desktop/blendingbox/Analysis/First Study/SPSS Files/q1_anal.sav
	Active Dataset	DataSet1
	Filter	<none>
	Weight	<none>
	Split File	<none>
	N of Rows in Working Data File	19
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.
Syntax		EXAMINE VARIABLES=distance_ex pectedC1C2 distance_HSV distance_LCh distance_CMYK distance_RGB distance_Lab /PLOT BOXPLOT STEMLEAF NPLOT /COMPARE GROUPS /STATISTICS DESCRIPTIVES /CINTERVAL 95 /MISSING LISTWISE /NOTOTAL.
Resources	Processor Time	00:00:03,27
	Elapsed Time	00:00:03,00

Case Processing Summary

	Cases					
	Valid		Missing		Total	
	N	Percent	N	Percent	N	Percent
distance_expected C1C2	19	100,0%	0	0,0%	19	100,0%
distance_HSV	19	100,0%	0	0,0%	19	100,0%
distance_LCh	19	100,0%	0	0,0%	19	100,0%
distance_CMYK	19	100,0%	0	0,0%	19	100,0%
distance_RGB	19	100,0%	0	0,0%	19	100,0%
distance_Lab	19	100,0%	0	0,0%	19	100,0%

Descriptives

			Statistic	Std. Error
distance_expected C1C2	Mean		.3768	.04654
	95% Confidence Interval for Mean	Lower Bound	.2791	
		Upper Bound	.4746	
	5% Trimmed Mean		.3820	
	Median		.3800	
	Variance		.041	
	Std. Deviation		.20284	
	Minimum		.02	
	Maximum		.64	
	Range		.62	
	Interquartile Range		.30	
	Skewness		-,539	,524
	Kurtosis		-,813	1,014
distance_HSV	Mean		.1258	.01898
	95% Confidence Interval for Mean	Lower Bound	.0859	
		Upper Bound	.1657	
	5% Trimmed Mean		.1248	
	Median		.1400	
	Variance		.007	
	Std. Deviation		.08275	
	Minimum		.01	
	Maximum		.26	
	Range		.25	
	Interquartile Range		.12	
	Skewness		,002	,524
	Kurtosis		-1,182	1,014
distance_LCh	Mean		.2042	.01478
	95% Confidence Interval for Mean	Lower Bound	.1732	
		Upper Bound	.2353	
	5% Trimmed Mean		.1986	
	Median		.1800	
	Variance		.004	

Descriptives

			Statistic	Std. Error
	Std. Deviation		.06440	
	Minimum		.14	
	Maximum		.37	
	Range		.23	
	Interquartile Range		.06	
	Skewness		1,375	,524
	Kurtosis		1,493	1,014
distance_CMYK	Mean		.0926	.01404
	95% Confidence Interval for Mean	Lower Bound	.0631	
		Upper Bound	.1221	
	5% Trimmed Mean		.0896	
	Median		.0700	
	Variance		,004	
	Std. Deviation		.06118	
	Minimum		.03	
	Maximum		.21	
	Range		.18	
	Interquartile Range		.11	
	Skewness		,871	,524
	Kurtosis		-,561	1,014
distance_RGB	Mean		.1237	.01818
	95% Confidence Interval for Mean	Lower Bound	.0855	
		Upper Bound	.1619	
	5% Trimmed Mean		.1213	
	Median		.1100	
	Variance		,006	
	Std. Deviation		.07925	
	Minimum		.01	
	Maximum		.28	
	Range		.27	
	Interquartile Range		.13	
	Skewness		,300	,524
	Kurtosis		-,633	1,014
distance_Lab	Mean		.1232	.01851
	95% Confidence Interval for Mean	Lower Bound	.0843	
		Upper Bound	.1621	
	5% Trimmed Mean		.1218	
	Median		.1100	
	Variance		,007	
	Std. Deviation		.08070	
	Minimum		.01	
	Maximum		.26	
	Range		.25	
	Interquartile Range		.16	

Descriptives

	Statistic	Std. Error
Skewness	,222	,524
Kurtosis	-,953	1,014

Tests of Normality

	Kolmogorov-Smirnov ^a			Shapiro-Wilk		
	Statistic	df	Sig.	Statistic	df	Sig.
distance_expectedC1C2	,158	19	,200 *	,911	19	,079
distance_HSV	,147	19	,200 *	,929	19	,167
distance_LCh	,201	19	,042	,849	19	,006
distance_CMYK	,189	19	,073	,855	19	,008
distance_RGB	,107	19	,200 *	,958	19	,532
distance_Lab	,139	19	,200 *	,932	19	,187

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

a. Lilliefors Significance Correction

```

NPAR TESTS
  /FRIEDMAN=distance_expectedC1C2distance_HSV distance_LCh distance_CMYK distance_RGB distance_Lab
  /STATISTICS QUANTILES
  /MISSING LISTWISE.

```

NPar Tests

Notes

Output Created		21-SEP-2016 16:31:53
Comments		
Input	Data	/Users/PauloGarcia/Desktop/blendingbox/Analysis/First Study/SPSS Files/q1_anal.sav
	Active Dataset	DataSet1
	Filter	<none>
	Weight	<none>
	Split File	<none>
	N of Rows in Working Data File	19
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.
Syntax		NPAR TESTS /FRIEDMAN=distance_expectedC1C2 distance_HSV distance_LCh distance_CMYK distance_RGB distance_Lab /STATISTICS QUANTILES /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	Percentiles		
		25th	50th (Median)	75th
distance_expectedC1C2	19	.2700	.3800	.5700
distance_HSV	19	.0700	.1400	.1900
distance_LCh	19	.1600	.1800	.2200
distance_CMYK	19	.0500	.0700	.1600
distance_RGB	19	.0500	.1100	.1800
distance_Lab	19	.0300	.1100	.1900

Friedman Test

Ranks

	Mean Rank
distance_expected C1C2	5,47
distance_HSV	3,03
distance_LCh	4,63
distance_CMYK	1,82
distance_RGB	2,97
distance_Lab	3,08

Test Statistics^a

N	19
Chi-Square	48,568
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 16:33:32
Comments		
Input	Data	/Users/PauloGarcia/Desktop/blendingbox/Analysis/First Study/SPSS Files/q1_anal.sav
	Active Dataset	DataSet1
	Filter	<none>
	Weight	<none>
	Split File	<none>
	N of Rows in Working Data File	19
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 distance_Lab (PAIRED) /STATISTICS DESCRIPTIVES QUARTILES /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	19	.1258	.08275	.01	.26	.0700
distance_LCh	19	.2042	.06440	.14	.37	.1600
distance_CMYK	19	.0926	.06118	.03	.21	.0500
distance_RGB	19	.1237	.07925	.01	.28	.0500
distance_Lab	19	.1232	.08070	.01	.26	.0300

Descriptive Statistics

	Percentiles	
	50th (Median)	75th
distance_HSV	.1400	.1900
distance_LCh	.1800	.2200
distance_CMYK	.0700	.1600
distance_RGB	.1100	.1800
distance_Lab	.1100	.1900

Wilcoxon Signed Ranks Test

Ranks

		N	Mean Rank	Sum of Ranks
distance_LCh - distance_HSV	Negative Ranks	3 ^a	5,00	15,00
	Positive Ranks	15 ^b	10,40	156,00
	Ties	1 ^c		
	Total	19		
distance_CMYK - distance_HSV	Negative Ranks	14 ^d	10,54	147,50
	Positive Ranks	4 ^e	5,88	23,50
	Ties	1 ^f		
	Total	19		
distance_RGB - distance_HSV	Negative Ranks	9 ^g	8,50	76,50
	Positive Ranks	7 ^h	8,50	59,50
	Ties	3 ⁱ		
	Total	19		
distance_Lab - distance_HSV	Negative Ranks	7 ^j	11,36	79,50
	Positive Ranks	10 ^k	7,35	73,50
	Ties	2 ^l		
	Total	19		
distance_CMYK - distance_LCh	Negative Ranks	18 ^m	10,44	188,00
	Positive Ranks	1 ⁿ	2,00	2,00
	Ties	0 ^o		
	Total	19		
distance_RGB - distance_LCh	Negative Ranks	16 ^p	10,09	161,50
	Positive Ranks	2 ^q	4,75	9,50

Ranks

		N	Mean Rank	Sum of Ranks
	Ties	1 ^r		
	Total	19		
distance_Lab - distance_LCh	Negative Ranks	16 ^s	11,09	177,50
	Positive Ranks	3 ^t	4,17	12,50
	Ties	0 ^u		
	Total	19		
distance_RGB - distance_CMYK	Negative Ranks	2 ^v	3,00	6,00
	Positive Ranks	14 ^w	9,29	130,00
	Ties	3 ^x		
	Total	19		
distance_Lab - distance_CMYK	Negative Ranks	3 ^y	2,00	6,00
	Positive Ranks	14 ^z	10,50	147,00
	Ties	2 ^{aa}		
	Total	19		
distance_Lab - distance_RGB	Negative Ranks	7 ^{ab}	9,64	67,50
	Positive Ranks	9 ^{ac}	7,61	68,50
	Ties	3 ^{ad}		
	Total	19		

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	-3,075 ^b	-2,713 ^c	-,447 ^c	-,143 ^c	-3,746 ^c
Asymp. Sig. (2-tailed)	,002	,007	,655	,886	,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	-3,316 ^c	-3,324 ^c	-3,215 ^b	-3,359 ^b	-,026 ^b
Asymp. Sig. (2-tailed)	,001	,001	,001	,001	,979

a. Wilcoxon Signed Ranks Test

b. Based on negative ranks.

c. Based on positive ranks.