```
 GET
  FILE='/Users/PauloGarcia/Desktop/blendingbox/Analysis/First Study/SPSS Files
/datasets/q2_anal_lab.sav'.
DATASET NAME DataSet2 WINDOW=FRONT.
EXAMINE VARIABLES=distance_expectedC1C2distance_HSV distance_LCh distance_CMY
K distance_RGB distance_Lab
  /PLOT BOXPLOT STEMLEAF NPPLOT
  /COMPARE GROUPS
  /STATISTICS DESCRIPTIVES
  /CINTERVAL 95
  /MISSING LISTWISE
  /NOTOTAL.
```

Explore

Notes

Output Created		**21-SEP-2016 16:40:01**
Comments		
Input	**Data**	**/Users/PauloGarcia/Desktop/blendingbox/Analysis/First Study/SPSS Files/datasets/q2_anal_lab.sav**
	Active Dataset	**DataSet2**
	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 NPPLOT /COMPARE GROUPS /STATISTICS DESCRIPTIVES /CINTERVAL 95 /MISSING LISTWISE /NOTOTAL.**
Resources	**Processor Time**	**00:00:03,09**
	Elapsed Time	**00:00:03,00**

[DataSet2] /Users/PauloGarcia/Desktop/blendingbox/Analysis/First Study/SPSS Files/datasets/q2_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		.5500	.07783
	95% Confidence Interval for Mean	Lower Bound	.3831	
		Upper Bound	.7169	
	5% Trimmed Mean		.5533	
	Median		.5300	
	Variance		,091	
	Std. Deviation		.30143	
	Minimum		.02	
	Maximum		1.02	
	Range		1.00	
	Interquartile Range		.52	
	Skewness		-,185	,580
	Kurtosis		-,749	1,121
distance_HSV	Mean		.2173	.03360
	95% Confidence Interval for Mean	Lower Bound	.1453	
		Upper Bound	.2894	
	5% Trimmed Mean		.2170	
	Median		.2200	
	Variance		,017	
	Std. Deviation		.13014	
	Minimum		.01	
	Maximum		.43	
	Range		.42	
	Interquartile Range		.21	
	Skewness		,097	,580
	Kurtosis		-,888	1,121
distance_LCh	Mean		.1573	.02439
	95% Confidence Interval for Mean	Lower Bound	.1050	
		Upper Bound	.2096	
	5% Trimmed Mean		.1509	
	Median		.1600	
	Variance		,009	
	Std. Deviation		.09445	
	Minimum		.03	
	Maximum		.40	
	Range		.37	
	Interquartile Range		.10	
	Skewness		1,042	,580
	Kurtosis		2,054	1,121
distance_CMYK	Mean		.1060	.01457
	95% Confidence Interval for Mean	Lower Bound	.0748	
		Upper Bound	.1372	
	5% Trimmed Mean		.1050	
	Median		.1200	

Descriptives

			Statistic	Std. Error
	Variance		,003	
	Std. Deviation		.05642	
	Minimum		.02	
	Maximum		.21	
	Range		.19	
	Interquartile Range		.09	
	Skewness		,034	,580
	Kurtosis		-,784	1,121
distance_RGB	Mean		.1660	.02716
	95% Confidence Interval for Mean	Lower Bound	.1077	
		Upper Bound	.2243	
	5% Trimmed Mean		.1656	
	Median		.1400	
	Variance		,011	
	Std. Deviation		.10521	
	Minimum		.01	
	Maximum		.33	
	Range		.32	
	Interquartile Range		.21	
	Skewness		,158	,580
	Kurtosis		-1,301	1,121
distance_Lab	Mean		.1560	.02169
	95% Confidence Interval for Mean	Lower Bound	.1095	
		Upper Bound	.2025	
	5% Trimmed Mean		.1550	
	Median		.1700	
	Variance		,007	
	Std. Deviation		.08399	
	Minimum		.02	
	Maximum		.31	
	Range		.29	
	Interquartile Range		.10	
	Skewness		,123	,580
	Kurtosis		-,610	1,121

Tests of Normality

	Kolmogorov-Smirnov[a]			Shapiro-Wilk		
	Statistic	df	Sig.	Statistic	df	Sig.
distance_expected C1C2	,114	15	,200*	,965	15	,775
distance_HSV	,083	15	,200*	,969	15	,841
distance_LCh	,192	15	,140	,911	15	,141
distance_CMYK	,131	15	,200*	,958	15	,652
distance_RGB	,136	15	,200*	,943	15	,424
distance_Lab	,108	15	,200*	,973	15	,897

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

a. Lilliefors Significance Correction

```
 DATASET ACTIVATE DataSet2.
DATASET CLOSE DataSet1.
NPAR TESTS
  /FRIEDMAN=distance_HSV distance_LCh distance_CMYK distance_RGB distance_Lab
  /STATISTICS DESCRIPTIVES QUARTILES
  /MISSING LISTWISE.
```

NPar Tests

Notes

Output Created		21-SEP-2016 16:45:28
Comments		
Input	Data	/Users/PauloGarcia/Desktop/blendingbox/Analysis/First Study/SPSS Files/datasets/q2_anal_lab.sav
	Active Dataset	DataSet2
	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_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]	78643

a. Based on availability of workspace memory.

Descriptive Statistics

	N	Mean	Std. Deviation	Minimum	Maximum	Percentile 25th
distance_HSV	15	.2173	.13014	.01	.43	.1000
distance_LCh	15	.1573	.09445	.03	.40	.0900
distance_CMYK	15	.1060	.05642	.02	.21	.0500
distance_RGB	15	.1660	.10521	.01	.33	.0700
distance_Lab	15	.1560	.08399	.02	.31	.1000

Descriptive Statistics

	Percentiles	
	50th (Median)	75th
distance_HSV	.2200	.3100
distance_LCh	.1600	.1900
distance_CMYK	.1200	.1400
distance_RGB	.1400	.2800
distance_Lab	.1700	.2000

Friedman Test

Ranks

	Mean Rank
distance_HSV	4,33
distance_LCh	3,10
distance_CMYK	1,67
distance_RGB	2,90
distance_Lab	3,00

Test Statistics[a]

N	15
Chi-Square	22,041
df	4
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 QUARTILES
  /MISSING ANALYSIS.
```

NPar Tests

Notes

Output Created		21-SEP-2016 16:46:51
Comments		
Input	Data	/Users/PauloGarcia/Desktop/blendingbox/Analysis/First Study/SPSS Files/datasets/q2_anal_lab.sav
	Active Dataset	DataSet2
	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.

Notes

Syntax		NPAR TESTS /WILCOXON=distance_HSV 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	15	.2173	.13014	.01	.43	.1000
distance_LCh	15	.1573	.09445	.03	.40	.0900
distance_CMYK	15	.1060	.05642	.02	.21	.0500
distance_RGB	15	.1660	.10521	.01	.33	.0700
distance_Lab	15	.1560	.08399	.02	.31	.1000

Descriptive Statistics

	Percentiles	
	50th (Median)	75th
distance_HSV	.2200	.3100
distance_LCh	.1600	.1900
distance_CMYK	.1200	.1400
distance_RGB	.1400	.2800
distance_Lab	.1700	.2000

Wilcoxon Signed Ranks Test

Ranks

		N	Mean Rank	Sum of Ranks
distance_LCh - distance_HSV	Negative Ranks	9[a]	8,44	76,00
	Positive Ranks	5[b]	5,80	29,00
	Ties	1[c]		
	Total	15		
distance_CMYK - distance_HSV	Negative Ranks	14[d]	8,32	116,50
	Positive Ranks	1[e]	3,50	3,50
	Ties	0[f]		
	Total	15		
distance_RGB - distance_HSV	Negative Ranks	13[g]	7,00	91,00
	Positive Ranks	0[h]	,00	,00
	Ties	2[i]		
	Total	15		
distance_Lab - distance_HSV	Negative Ranks	12[j]	7,42	89,00
	Positive Ranks	2[k]	8,00	16,00
	Ties	1[l]		
	Total	15		
distance_CMYK - distance_LCh	Negative Ranks	11[m]	8,64	95,00
	Positive Ranks	4[n]	6,25	25,00
	Ties	0[o]		
	Total	15		
distance_RGB - distance_LCh	Negative Ranks	6[p]	9,58	57,50
	Positive Ranks	9[q]	6,94	62,50
	Ties	0[r]		
	Total	15		
distance_Lab - distance_LCh	Negative Ranks	8[s]	6,00	48,00
	Positive Ranks	5[t]	8,60	43,00
	Ties	2[u]		
	Total	15		
distance_RGB - distance_CMYK	Negative Ranks	4[v]	4,00	16,00
	Positive Ranks	10[w]	8,90	89,00
	Ties	1[x]		
	Total	15		
distance_Lab - distance_CMYK	Negative Ranks	0[y]	,00	,00
	Positive Ranks	14[z]	7,50	105,00
	Ties	1[aa]		
	Total	15		
distance_Lab - distance_RGB	Negative Ranks	8[ab]	8,56	68,50
	Positive Ranks	7[ac]	7,36	51,50
	Ties	0[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_CMYK - distance_HSV	distance_RGB - distance_HSV	distance_Lab - distance_HSV	distance_CMYK - distance_LCh
Z	-1,475[b]	-3,214[b]	-3,187[b]	-2,296[b]	-1,990[b]
Asymp. Sig. (2-tailed)	,140	,001	,001	,022	,047

Test Statistics[a]

	distance_RGB - distance_LCh	distance_Lab - distance_LCh	distance_RGB - distance_CMYK	distance_Lab - distance_CMYK	distance_Lab - distance_RGB
Z	-,142[c]	-,175[b]	-2,304[c]	-3,303[c]	-,483[b]
Asymp. Sig. (2-tailed)	,887	,861	,021	,001	,629

a. Wilcoxon Signed Ranks Test

b. Based on positive ranks.

c. Based on negative ranks.