```
 GET
  FILE='/Users/PauloGarcia/Desktop/blendingbox/Analysis/First Study/SPSS Files
/datasets/q9_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 17:23:10**
Comments		
Input	**Data**	**/Users/PauloGarcia/Desktop/blendingbox/Analysis/First Study/SPSS Files/datasets/q9_anal_lab.sav**
	Active Dataset	**DataSet2**
	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.**

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**	**00:00:03,06**
	Elapsed Time	**00:00:03,00**

[DataSet2] /Users/PauloGarcia/Desktop/blendingbox/Analysis/First Study/SPSS Files/datasets/q9_anal_lab.sav

Case Processing Summary

	Cases					
	Valid		Missing		Total	
	N	Percent	N	Percent	N	Percent
distance_expectedC1C2	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		.4405	.05826
	95% Confidence Interval for Mean	Lower Bound	.3181	
		Upper Bound	.5629	
	5% Trimmed Mean		.4434	
	Median		.4900	
	Variance		,064	
	Std. Deviation		.25394	
	Minimum		.05	
	Maximum		.78	
	Range		.73	
	Interquartile Range		.48	
	Skewness		-,273	,524
	Kurtosis		-1,386	1,014
distance_HSV	Mean		.1258	.02269
	95% Confidence Interval for Mean	Lower Bound	.0781	
		Upper Bound	.1735	
	5% Trimmed Mean		.1198	
	Median		.1000	
	Variance		,010	
	Std. Deviation		.09890	
	Minimum		.02	
	Maximum		.34	
	Range		.32	
	Interquartile Range		.04	
	Skewness		1,390	,524
	Kurtosis		,768	1,014
distance_LCh	Mean		.1642	.01712
	95% Confidence Interval for Mean	Lower Bound	.1282	
		Upper Bound	.2002	
	5% Trimmed Mean		.1636	
	Median		.1300	
	Variance		,006	
	Std. Deviation		.07463	
	Minimum		.05	
	Maximum		.29	
	Range		.24	
	Interquartile Range		.10	
	Skewness		,327	,524
	Kurtosis		-,773	1,014
distance_CMYK	Mean		.0911	.01065
	95% Confidence Interval for Mean	Lower Bound	.0687	
		Upper Bound	.1134	
	5% Trimmed Mean		.0862	
	Median		.0900	

Descriptives

			Statistic	Std. Error
	Variance		,002	
	Std. Deviation		.04642	
	Minimum		.03	
	Maximum		.24	
	Range		.21	
	Interquartile Range		.06	
	Skewness		1,695	,524
	Kurtosis		5,275	1,014
distance_RGB	Mean		.1005	.01726
	95% Confidence Interval for Mean	Lower Bound	.0643	
		Upper Bound	.1368	
	5% Trimmed Mean		.0989	
	Median		.0800	
	Variance		,006	
	Std. Deviation		.07524	
	Minimum		.00	
	Maximum		.23	
	Range		.23	
	Interquartile Range		.14	
	Skewness		,772	,524
	Kurtosis		-,857	1,014
distance_Lab	Mean		.1142	.01536
	95% Confidence Interval for Mean	Lower Bound	.0819	
		Upper Bound	.1465	
	5% Trimmed Mean		.1130	
	Median		.1000	
	Variance		,004	
	Std. Deviation		.06694	
	Minimum		.03	
	Maximum		.22	
	Range		.19	
	Interquartile Range		.15	
	Skewness		,460	,524
	Kurtosis		-1,269	1,014

Tests of Normality

	Kolmogorov-Smirnov[a]			Shapiro-Wilk		
	Statistic	df	Sig.	Statistic	df	Sig.
distance_expectedC1C2	,156	19	,200*	,910	19	,074
distance_HSV	,353	19	,000	,774	19	,000
distance_LCh	,206	19	,033	,918	19	,105
distance_CMYK	,236	19	,007	,829	19	,003
distance_RGB	,187	19	,079	,850	19	,007
distance_Lab	,167	19	,175	,885	19	,026

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

a. Lilliefors Significance Correction

```
NPAR TESTS
  /FRIEDMAN=distance_expectedC1C2distance_HSV distance_LCh distance_CMYK dist
ance_RGB distance_Lab
  /STATISTICS DESCRIPTIVES QUARTILES
  /MISSING LISTWISE.
```

NPar Tests

Notes

Output Created		21-SEP-2016 17:23:46
Comments		
Input	Data	/Users/PauloGarcia/Desktop/blendingbox/Analysis/First Study/SPSS Files/datasets/q9_anal_lab.sav
	Active Dataset	DataSet2
	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.

Notes

Syntax		NPAR TESTS /FRIEDMAN=distance_expectedC1C2 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_expectedC1C2	19	.4405	.25394	.05	.78	.1700
distance_HSV	19	.1258	.09890	.02	.34	.0700
distance_LCh	19	.1642	.07463	.05	.29	.1200
distance_CMYK	19	.0911	.04642	.03	.24	.0500
distance_RGB	19	.1005	.07524	.00	.23	.0400
distance_Lab	19	.1142	.06694	.03	.22	.0500

Descriptive Statistics

	Percentiles	
	50th (Median)	75th
distance_expectedC1C2	.4900	.6500
distance_HSV	.1000	.1100
distance_LCh	.1300	.2200
distance_CMYK	.0900	.1100
distance_RGB	.0800	.1800
distance_Lab	.1000	.2000

Friedman Test

Ranks

	Mean Rank
distance_expected C1C2	5,74
distance_HSV	3,03
distance_LCh	4,34
distance_CMYK	2,74
distance_RGB	2,18
distance_Lab	2,97

Test Statistics[a]

N	19
Chi-Square	48,252
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 QUARTILES
  /MISSING ANALYSIS.
```

NPar Tests

Notes

Output Created		21-SEP-2016 17:24:33
Comments		
Input	Data	/Users/PauloGarcia/Desktop/blendingbox/Analysis/First Study/SPSS Files/datasets/q9_anal_lab.sav
	Active Dataset	DataSet2
	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_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	.09890	.02	.34	.0700
distance_LCh	19	.1642	.07463	.05	.29	.1200
distance_CMYK	19	.0911	.04642	.03	.24	.0500
distance_RGB	19	.1005	.07524	.00	.23	.0400
distance_Lab	19	.1142	.06694	.03	.22	.0500

Descriptive Statistics

	Percentiles	
	50th (Median)	75th
distance_HSV	.1000	.1100
distance_LCh	.1300	.2200
distance_CMYK	.0900	.1100
distance_RGB	.0800	.1800
distance_Lab	.1000	.2000

Wilcoxon Signed Ranks Test

Ranks

		N	Mean Rank	Sum of Ranks
distance_LCh - distance_HSV	Negative Ranks	5[a]	9,60	48,00
	Positive Ranks	13[b]	9,46	123,00
	Ties	1[c]		
	Total	19		
distance_CMYK - distance_HSV	Negative Ranks	6[d]	9,00	54,00
	Positive Ranks	7[e]	5,29	37,00
	Ties	6[f]		
	Total	19		
distance_RGB - distance_HSV	Negative Ranks	11[g]	9,50	104,50
	Positive Ranks	5[h]	6,30	31,50
	Ties	3[i]		
	Total	19		
distance_Lab - distance_HSV	Negative Ranks	10[j]	8,05	80,50
	Positive Ranks	6[k]	9,25	55,50
	Ties	3[l]		
	Total	19		
distance_CMYK - distance_LCh	Negative Ranks	14[m]	9,68	135,50
	Positive Ranks	3[n]	5,83	17,50
	Ties	2[o]		
	Total	19		
distance_RGB - distance_LCh	Negative Ranks	15[p]	8,67	130,00
	Positive Ranks	1[q]	6,00	6,00

Ranks

		N	Mean Rank	Sum of Ranks
	Ties	3[r]		
	Total	19		
distance_Lab - distance_LCh	Negative Ranks	14[s]	10,43	146,00
	Positive Ranks	4[t]	6,25	25,00
	Ties	1[u]		
	Total	19		
distance_RGB - distance_CMYK	Negative Ranks	9[v]	7,94	71,50
	Positive Ranks	8[w]	10,19	81,50
	Ties	2[x]		
	Total	19		
distance_Lab - distance_CMYK	Negative Ranks	7[y]	6,14	43,00
	Positive Ranks	10[z]	11,00	110,00
	Ties	2[aa]		
	Total	19		
distance_Lab - distance_RGB	Negative Ranks	4[ab]	4,50	18,00
	Positive Ranks	14[ac]	10,93	153,00
	Ties	1[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_CMYK - distance_HSV	distance_RGB - distance_HSV	distance_Lab - distance_HSV	distance_CMYK - distance_LCh
Z	-1,636[b]	-,597[c]	-1,891[c]	-,648[c]	-2,794[c]
Asymp. Sig. (2-tailed)	,102	,551	,059	,517	,005

Test Statistics[a]

	distance_RGB - distance_LCh	distance_Lab - distance_LCh	distance_RGB - distance_CMYK	distance_Lab - distance_CMYK	distance_Lab - distance_RGB
Z	-3,211[c]	-2,640[c]	-,237[b]	-1,589[b]	-2,980[b]
Asymp. Sig. (2-tailed)	,001	,008	,812	,112	,003

a. Wilcoxon Signed Ranks Test

b. Based on negative ranks.

c. Based on positive ranks.