```
 GET
  FILE='/Users/PauloGarcia/Desktop/blendingbox/Analysis/First Study/SPSS Files
/datasets/q17_anal_lab.sav'.
DATASET NAME DataSet8 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 17:51:52**
Comments		
Input	**Data**	**/Users/PauloGarcia/Desktop/blendingbox/Analysis/First Study/SPSS Files/datasets/q17_anal_lab.sav**
	Active Dataset	**DataSet8**
	Filter	**<none>**
	Weight	**<none>**
	Split File	**<none>**
	N of Rows in Working Data File	**23**
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	00:00:02,86
	Elapsed Time	00:00:04,00

[DataSet8] /Users/PauloGarcia/Desktop/blendingbox/Analysis/First Study/SPSS F
iles/datasets/q17_anal_lab.sav

Case Processing Summary

	Cases					
	Valid		Missing		Total	
	N	Percent	N	Percent	N	Percent
distance_expected C1C2	23	100,0%	0	0,0%	23	100,0%
distance_HSV	23	100,0%	0	0,0%	23	100,0%
distance_LCh	23	100,0%	0	0,0%	23	100,0%
distance_CMYK	23	100,0%	0	0,0%	23	100,0%
distance_RGB	23	100,0%	0	0,0%	23	100,0%
distance_Lab	23	100,0%	0	0,0%	23	100,0%

Descriptives

			Statistic	Std. Error
distance_expected C1C2	Mean		.4900	.03870
	95% Confidence Interval for Mean	Lower Bound	.4097	
		Upper Bound	.5703	
	5% Trimmed Mean		.4956	
	Median		.5000	
	Variance		,034	
	Std. Deviation		.18559	
	Minimum		.14	
	Maximum		.74	
	Range		.60	
	Interquartile Range		.36	
	Skewness		-,297	,481
	Kurtosis		-,878	,935
distance_HSV	Mean		.0683	.02133
	95% Confidence Interval for Mean	Lower Bound	.0240	
		Upper Bound	.1125	
	5% Trimmed Mean		.0536	
	Median		.0200	
	Variance		,010	
	Std. Deviation		.10228	
	Minimum		.02	
	Maximum		.38	
	Range		.36	
	Interquartile Range		.05	
	Skewness		2,763	,481
	Kurtosis		6,901	,935
distance_LCh	Mean		.1626	.01231
	95% Confidence Interval for Mean	Lower Bound	.1371	
		Upper Bound	.1881	
	5% Trimmed Mean		.1590	
	Median		.1400	
	Variance		,003	
	Std. Deviation		.05902	
	Minimum		.08	
	Maximum		.31	
	Range		.23	
	Interquartile Range		.02	
	Skewness		1,477	,481
	Kurtosis		1,716	,935
distance_CMYK	Mean		.0452	.00338
	95% Confidence Interval for Mean	Lower Bound	.0382	
		Upper Bound	.0522	
	5% Trimmed Mean		.0452	
	Median		.0500	

Descriptives

			Statistic	Std. Error
	Variance		,000	
	Std. Deviation		.01620	
	Minimum		.02	
	Maximum		.07	
	Range		.05	
	Interquartile Range		.03	
	Skewness		-,183	,481
	Kurtosis		-1,266	,935
distance_RGB	Mean		.1030	.01197
	95% Confidence Interval for Mean	Lower Bound	.0782	
		Upper Bound	.1279	
	5% Trimmed Mean		.1017	
	Median		.0800	
	Variance		,003	
	Std. Deviation		.05740	
	Minimum		.03	
	Maximum		.20	
	Range		.17	
	Interquartile Range		.10	
	Skewness		,480	,481
	Kurtosis		-1,267	,935
distance_Lab	Mean		.1130	.01066
	95% Confidence Interval for Mean	Lower Bound	.0909	
		Upper Bound	.1351	
	5% Trimmed Mean		.1139	
	Median		.1100	
	Variance		,003	
	Std. Deviation		.05112	
	Minimum		.03	
	Maximum		.18	
	Range		.15	
	Interquartile Range		.10	
	Skewness		-,191	,481
	Kurtosis		-1,565	,935

Tests of Normality

	Kolmogorov-Smirnov[a]			Shapiro-Wilk		
	Statistic	df	Sig.	Statistic	df	Sig.
distance_expected C1C2	,132	23	,200[*]	,938	23	,163
distance_HSV	,324	23	,000	,516	23	,000
distance_LCh	,301	23	,000	,765	23	,000
distance_CMYK	,181	23	,048	,908	23	,037
distance_RGB	,221	23	,005	,892	23	,017
distance_Lab	,200	23	,018	,897	23	,022

*. 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 17:52:05
Comments		
Input	Data	/Users/PauloGarcia/Desktop/blendingbox/Analysis/First Study/SPSS Files/datasets/q17_anal _lab.sav
	Active Dataset	DataSet8
	Filter	<none>
	Weight	<none>
	Split File	<none>
	N of Rows in Working Data File	23
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

						Percentile
	N	Mean	Std. Deviation	Minimum	Maximum	25th
distance_expected C1C2	23	.4900	.18559	.14	.74	.3400
distance_HSV	23	.0683	.10228	.02	.38	.0200
distance_LCh	23	.1626	.05902	.08	.31	.1400
distance_CMYK	23	.0452	.01620	.02	.07	.0300
distance_RGB	23	.1030	.05740	.03	.20	.0600
distance_Lab	23	.1130	.05112	.03	.18	.0600

Descriptive Statistics

	Percentiles	
	50th (Median)	75th
distance_expected C1C2	.5000	.7000
distance_HSV	.0200	.0700
distance_LCh	.1400	.1600
distance_CMYK	.0500	.0600
distance_RGB	.0800	.1600
distance_Lab	.1100	.1600

Friedman Test

Ranks

	Mean Rank
distance_expected C1C2	5,96
distance_HSV	1,76
distance_LCh	4,39
distance_CMYK	1,76
distance_RGB	3,30
distance_Lab	3,83

Test Statistics[a]

N	23
Chi-Square	86,654
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 17:52:39**
Comments		
Input	**Data**	**/Users/PauloGarcia/Desktop/blendingbox/Analysis/First Study/SPSS Files/datasets/q17_anal_lab.sav**
	Active Dataset	**DataSet8**
	Filter	**<none>**
	Weight	**<none>**
	Split File	**<none>**
	N of Rows in Working Data File	**23**
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	23	.0683	.10228	.02	.38	.0200
distance_LCh	23	.1626	.05902	.08	.31	.1400
distance_CMYK	23	.0452	.01620	.02	.07	.0300
distance_RGB	23	.1030	.05740	.03	.20	.0600
distance_Lab	23	.1130	.05112	.03	.18	.0600

Descriptive Statistics

	Percentiles	
	50th (Median)	75th
distance_HSV	.0200	.0700
distance_LCh	.1400	.1600
distance_CMYK	.0500	.0600
distance_RGB	.0800	.1600
distance_Lab	.1100	.1600

Wilcoxon Signed Ranks Test

Ranks

		N	Mean Rank	Sum of Ranks
distance_LCh - distance_HSV	Negative Ranks	3[a]	9,00	27,00
	Positive Ranks	20[b]	12,45	249,00
	Ties	0[c]		
	Total	23		
distance_CMYK - distance_HSV	Negative Ranks	6[d]	12,75	76,50
	Positive Ranks	14[e]	9,54	133,50
	Ties	3[f]		
	Total	23		
distance_RGB - distance_HSV	Negative Ranks	3[g]	19,00	57,00
	Positive Ranks	20[h]	10,95	219,00
	Ties	0[i]		
	Total	23		
distance_Lab - distance_HSV	Negative Ranks	3[j]	16,83	50,50
	Positive Ranks	20[k]	11,28	225,50
	Ties	0[l]		
	Total	23		
distance_CMYK - distance_LCh	Negative Ranks	23[m]	12,00	276,00
	Positive Ranks	0[n]	,00	,00
	Ties	0[o]		
	Total	23		
distance_RGB - distance_LCh	Negative Ranks	18[p]	12,83	231,00
	Positive Ranks	4[q]	5,50	22,00

Ranks

		N	Mean Rank	Sum of Ranks
	Ties	1^r		
	Total	23		
distance_Lab - distance_LCh	Negative Ranks	16^s	14,31	229,00
	Positive Ranks	6^t	4,00	24,00
	Ties	1^u		
	Total	23		
distance_RGB - distance_CMYK	Negative Ranks	1^v	2,50	2,50
	Positive Ranks	22^w	12,43	273,50
	Ties	0^x		
	Total	23		
distance_Lab - distance_CMYK	Negative Ranks	1^y	1,50	1,50
	Positive Ranks	22^z	12,48	274,50
	Ties	0^{aa}		
	Total	23		
distance_Lab - distance_RGB	Negative Ranks	4^{ab}	11,63	46,50
	Positive Ranks	14^{ac}	8,89	124,50
	Ties	5^{ad}		
	Total	23		

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	-3,385[b]	-1,093[b]	-2,467[b]	-2,665[b]	-4,202[c]
Asymp. Sig. (2-tailed)	,001	,275	,014	,008	,000

Test Statistics[a]

	distance_RGB - distance_LCh	distance_Lab - distance_LCh	distance_RGB - distance_CMYK	distance_Lab - distance_CMYK	distance_Lab - distance_RGB
Z	-3,398[c]	-3,331[c]	-4,138[b]	-4,164[b]	-1,747[b]
Asymp. Sig. (2-tailed)	,001	,001	,000	,000	,081

a. Wilcoxon Signed Ranks Test

b. Based on negative ranks.

c. Based on positive ranks.