```
EXAMINE VARIABLES=distance_expectedC1C2 distance_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 16:59:16**
Comments		
Input	**Data**	**/Users/PauloGarcia/Desktop/blendingbox/Analysis/First Study/SPSS Files/datasets/q6_anal_lab.sav**
	Active Dataset	**DataSet6**
	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.**
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**	**00:00:03,01**
	Elapsed Time	**00:00:03,00**

Case Processing Summary

	Cases					
	Valid		Missing		Total	
	N	Percent	N	Percent	N	Percent
distance_expected C1C2	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		.1868	.05260
	95% Confidence Interval for Mean	Lower Bound	.0774	
		Upper Bound	.2962	
	5% Trimmed Mean		.1593	
	Median		.0400	
	Variance		,061	
	Std. Deviation		.24670	
	Minimum		.00	
	Maximum		.90	
	Range		.90	
	Interquartile Range		.34	
	Skewness		1,475	,491
	Kurtosis		1,795	,953
distance_HSV	Mean		.0741	.02221
	95% Confidence Interval for Mean	Lower Bound	.0279	
		Upper Bound	.1203	
	5% Trimmed Mean		.0646	
	Median		.0250	
	Variance		,011	
	Std. Deviation		.10418	
	Minimum		.00	
	Maximum		.32	
	Range		.32	
	Interquartile Range		.10	
	Skewness		1,617	,491
	Kurtosis		1,245	,953
distance_LCh	Mean		.1332	.01849
	95% Confidence Interval for Mean	Lower Bound	.0947	
		Upper Bound	.1716	
	5% Trimmed Mean		.1256	
	Median		.0850	
	Variance		,008	

Descriptives

			Statistic	Std. Error
	Std. Deviation		.08671	
	Minimum		.04	
	Maximum		.37	
	Range		.33	
	Interquartile Range		.14	
	Skewness		1,294	,491
	Kurtosis		,906	,953
distance_CMYK	Mean		.0577	.01314
	95% Confidence Interval for Mean	Lower Bound	.0304	
		Upper Bound	.0851	
	5% Trimmed Mean		.0486	
	Median		.0300	
	Variance		,004	
	Std. Deviation		.06164	
	Minimum		.02	
	Maximum		.27	
	Range		.25	
	Interquartile Range		.04	
	Skewness		2,391	,491
	Kurtosis		6,091	,953
distance_RGB	Mean		.0777	.01977
	95% Confidence Interval for Mean	Lower Bound	.0366	
		Upper Bound	.1188	
	5% Trimmed Mean		.0683	
	Median		.0300	
	Variance		,009	
	Std. Deviation		.09273	
	Minimum		.01	
	Maximum		.32	
	Range		.31	
	Interquartile Range		.10	
	Skewness		1,596	,491
	Kurtosis		1,265	,953
distance_Lab	Mean		.0509	.01572
	95% Confidence Interval for Mean	Lower Bound	.0182	
		Upper Bound	.0836	
	5% Trimmed Mean		.0405	
	Median		.0100	
	Variance		,005	
	Std. Deviation		.07374	
	Minimum		.01	
	Maximum		.29	
	Range		.28	
	Interquartile Range		.06	

Descriptives

		Statistic	Std. Error
Skewness		2,154	,491
Kurtosis		4,518	,953

Tests of Normality

	Kolmogorov-Smirnov[a]			Shapiro-Wilk		
	Statistic	df	Sig.	Statistic	df	Sig.
distance_expected C1C2	,273	22	,000	,762	22	,000
distance_HSV	,356	22	,000	,692	22	,000
distance_LCh	,331	22	,000	,764	22	,000
distance_CMYK	,401	22	,000	,621	22	,000
distance_RGB	,345	22	,000	,687	22	,000
distance_Lab	,344	22	,000	,637	22	,000

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 16:59:48
Comments		
Input	Data	/Users/PauloGarcia/Desktop/blendingbox/Analysis/First Study/SPSS Files/datasets/q6_anal_lab.sav
	Active Dataset	DataSet6
	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.
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	22	.1868	.24670	.00	.90	.0100
distance_HSV	22	.0741	.10418	.00	.32	.0100
distance_LCh	22	.1332	.08671	.04	.37	.0800
distance_CMYK	22	.0577	.06164	.02	.27	.0300
distance_RGB	22	.0777	.09273	.01	.32	.0200
distance_Lab	22	.0509	.07374	.01	.29	.0100

Descriptive Statistics

	Percentiles	
	50th (Median)	**75th**
distance_expected C1C2	.0400	.3525
distance_HSV	.0250	.1050
distance_LCh	.0850	.2200
distance_CMYK	.0300	.0725
distance_RGB	.0300	.1150
distance_Lab	.0100	.0650

Friedman Test

Ranks

	Mean Rank
distance_expected C1C2	4,14
distance_HSV	2,86
distance_LCh	5,32
distance_CMYK	3,07
distance_RGB	3,70
distance_Lab	1,91

Test Statistics[a]

N	22
Chi-Square	45,396
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 17:00:25
Comments		
Input	Data	/Users/PauloGarcia/Desktop/blendingbox/Analysis/First Study/SPSS Files/datasets/q6_anal_lab.sav
	Active Dataset	DataSet6
	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 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	22	.0741	.10418	.00	.32	.0100
distance_LCh	22	.1332	.08671	.04	.37	.0800
distance_CMYK	22	.0577	.06164	.02	.27	.0300
distance_RGB	22	.0777	.09273	.01	.32	.0200
distance_Lab	22	.0509	.07374	.01	.29	.0100

Descriptive Statistics

	Percentiles	
	50th (Median)	75th
distance_HSV	.0250	.1050
distance_LCh	.0850	.2200
distance_CMYK	.0300	.0725
distance_RGB	.0300	.1150
distance_Lab	.0100	.0650

Wilcoxon Signed Ranks Test

Ranks

		N	Mean Rank	Sum of Ranks
distance_LCh - distance_HSV	Negative Ranks	2[a]	13,25	26,50
	Positive Ranks	20[b]	11,33	226,50
	Ties	0[c]		
	Total	22		
distance_CMYK - distance_HSV	Negative Ranks	9[d]	11,50	103,50
	Positive Ranks	9[e]	7,50	67,50
	Ties	4[f]		
	Total	22		
distance_RGB - distance_HSV	Negative Ranks	7[g]	10,14	71,00
	Positive Ranks	14[h]	11,43	160,00
	Ties	1[i]		
	Total	22		
distance_Lab - distance_HSV	Negative Ranks	13[j]	11,42	148,50
	Positive Ranks	5[k]	4,50	22,50
	Ties	4[l]		
	Total	22		
distance_CMYK - distance_LCh	Negative Ranks	21[m]	11,31	237,50
	Positive Ranks	1[n]	15,50	15,50
	Ties	0[o]		
	Total	22		
distance_RGB - distance_LCh	Negative Ranks	20[p]	11,58	231,50
	Positive Ranks	2[q]	10,75	21,50

Ranks

		N	Mean Rank	Sum of Ranks
	Ties	0 [r]		
	Total	22		
distance_Lab - distance_LCh	Negative Ranks	21 [s]	11,36	238,50
	Positive Ranks	1 [t]	14,50	14,50
	Ties	0 [u]		
	Total	22		
distance_RGB - distance_CMYK	Negative Ranks	6 [v]	5,50	33,00
	Positive Ranks	11 [w]	10,91	120,00
	Ties	5 [x]		
	Total	22		
distance_Lab - distance_CMYK	Negative Ranks	14 [y]	8,57	120,00
	Positive Ranks	4 [z]	12,75	51,00
	Ties	4 [aa]		
	Total	22		
distance_Lab - distance_RGB	Negative Ranks	20 [ab]	11,80	236,00
	Positive Ranks	2 [ac]	8,50	17,00
	Ties	0 [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_CMYK - distance_HSV	distance_RGB - distance_HSV	distance_Lab - distance_HSV	distance_CMYK - distance_LCh
Z	-3,259[b]	-,790[c]	-1,580[b]	-2,774[c]	-3,620[c]
Asymp. Sig. (2-tailed)	,001	,429	,114	,006	,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	-3,415[c]	-3,653[c]	-2,109[b]	-1,574[c]	-3,597[c]
Asymp. Sig. (2-tailed)	,001	,000	,035	,116	,000

a. Wilcoxon Signed Ranks Test

b. Based on negative ranks.

c. Based on positive ranks.