```
  DATASET ACTIVATE DataSet2.
DATASET CLOSE DataSet3.
GET
  FILE='/Users/PauloGarcia/Desktop/blendingbox/Analysis/First Study/SPSS Files
/datasets/q13_anal_lab.sav'.
DATASET NAME DataSet4 WINDOW=FRONT.
DATASET CLOSE DataSet2.
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 17:42:01**
Comments		
Input	**Data**	**/Users/PauloGarcia/Desktop/blendingbox/Analysis/First Study/SPSS Files/datasets/q13_anal_lab.sav**
	Active Dataset	**DataSet4**
	Filter	**<none>**
	Weight	**<none>**
	Split File	**<none>**
	N of Rows in Working Data File	**16**
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	00:00:03,25
	Elapsed Time	00:00:03,00

Case Processing Summary

	Cases					
	Valid		Missing		Total	
	N	Percent	N	Percent	N	Percent
distance_expected C1C2	16	100,0%	0	0,0%	16	100,0%
distance_HSV	16	100,0%	0	0,0%	16	100,0%
distance_LCh	16	100,0%	0	0,0%	16	100,0%
distance_CMYK	16	100,0%	0	0,0%	16	100,0%
distance_RGB	16	100,0%	0	0,0%	16	100,0%
distance_Lab	16	100,0%	0	0,0%	16	100,0%

Descriptives

			Statistic	Std. Error
distance_expected C1C2	Mean		.5169	.06197
	95% Confidence Interval for Mean	Lower Bound	.3848	
		Upper Bound	.6490	
	5% Trimmed Mean		.5237	
	Median		.5450	
	Variance		,061	
	Std. Deviation		.24789	
	Minimum		.11	
	Maximum		.80	
	Range		.69	
	Interquartile Range		.46	
	Skewness		-,198	,564
	Kurtosis		-1,752	1,091
distance_HSV	Mean		.2713	.03902
	95% Confidence Interval for Mean	Lower Bound	.1881	
		Upper Bound	.3544	
	5% Trimmed Mean		.2753	
	Median		.3250	
	Variance		,024	
	Std. Deviation		.15607	
	Minimum		.02	
	Maximum		.45	
	Range		.43	
	Interquartile Range		.29	
	Skewness		-,203	,564
	Kurtosis		-1,910	1,091
distance_LCh	Mean		.1663	.02425
	95% Confidence Interval for Mean	Lower Bound	.1146	
		Upper Bound	.2179	
	5% Trimmed Mean		.1636	
	Median		.1400	
	Variance		,009	
	Std. Deviation		.09701	
	Minimum		.05	
	Maximum		.33	
	Range		.28	
	Interquartile Range		.20	
	Skewness		,557	,564
	Kurtosis		-1,142	1,091
distance_CMYK	Mean		.1875	.03274
	95% Confidence Interval for Mean	Lower Bound	.1177	
		Upper Bound	.2573	
	5% Trimmed Mean		.1883	
	Median		.2150	

Descriptives

			Statistic	Std. Error
	Variance		,017	
	Std. Deviation		.13097	
	Minimum		.03	
	Maximum		.33	
	Range		.30	
	Interquartile Range		.28	
	Skewness		-,154	,564
	Kurtosis		-2,045	1,091
distance_RGB	Mean		.2450	.03949
	95% Confidence Interval for Mean	Lower Bound	.1608	
		Upper Bound	.3292	
	5% Trimmed Mean		.2478	
	Median		.2500	
	Variance		,025	
	Std. Deviation		.15795	
	Minimum		.03	
	Maximum		.41	
	Range		.38	
	Interquartile Range		.30	
	Skewness		-,065	,564
	Kurtosis		-2,096	1,091
distance_Lab	Mean		.2269	.03056
	95% Confidence Interval for Mean	Lower Bound	.1617	
		Upper Bound	.2920	
	5% Trimmed Mean		.2315	
	Median		.2350	
	Variance		,015	
	Std. Deviation		.12224	
	Minimum		.01	
	Maximum		.36	
	Range		.35	
	Interquartile Range		.24	
	Skewness		-,362	,564
	Kurtosis		-1,390	1,091

Tests of Normality

	Kolmogorov-Smirnov[a]			Shapiro-Wilk		
	Statistic	df	Sig.	Statistic	df	Sig.
distance_expected C1C2	,243	16	,013	,849	16	,013
distance_HSV	,295	16	,001	,805	16	,003
distance_LCh	,232	16	,022	,879	16	,037
distance_CMYK	,260	16	,005	,782	16	,002
distance_RGB	,247	16	,010	,785	16	,002
distance_Lab	,198	16	,095	,870	16	,027

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 17:42:16
Comments		
Input	Data	/Users/PauloGarcia/Desktop/blendingbox/Analysis/First Study/SPSS Files/datasets/q13_anal_lab.sav
	Active Dataset	DataSet4
	Filter	<none>
	Weight	<none>
	Split File	<none>
	N of Rows in Working Data File	16
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_expected C1C2	16	.5169	.24789	.11	.80	.3100
distance_HSV	16	.2713	.15607	.02	.45	.1225
distance_LCh	16	.1663	.09701	.05	.33	.0800
distance_CMYK	16	.1875	.13097	.03	.33	.0350
distance_RGB	16	.2450	.15795	.03	.41	.1025
distance_Lab	16	.2269	.12224	.01	.36	.1150

Descriptive Statistics

	Percentiles	
	50th (Median)	75th
distance_expected C1C2	.5450	.7675
distance_HSV	.3250	.4100
distance_LCh	.1400	.2775
distance_CMYK	.2150	.3100
distance_RGB	.2500	.4075
distance_Lab	.2350	.3500

Friedman Test

Ranks

	Mean Rank
distance_expected C1C2	5,78
distance_HSV	4,00
distance_LCh	2,88
distance_CMYK	2,00
distance_RGB	3,38
distance_Lab	2,97

Test Statistics^a

N	16
Chi-Square	38,993
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 17:42:56
Comments		
Input	Data	/Users/PauloGarcia/Desktop/blendingbox/Analysis/First Study/SPSS Files/datasets/q13_anal_lab.sav
	Active Dataset	DataSet4
	Filter	\<none\>
	Weight	\<none\>
	Split File	\<none\>
	N of Rows in Working Data File	16
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	16	.2713	.15607	.02	.45	.1225
distance_LCh	16	.1663	.09701	.05	.33	.0800
distance_CMYK	16	.1875	.13097	.03	.33	.0350
distance_RGB	16	.2450	.15795	.03	.41	.1025
distance_Lab	16	.2269	.12224	.01	.36	.1150

Descriptive Statistics

	Percentiles	
	50th (Median)	75th
distance_HSV	.3250	.4100
distance_LCh	.1400	.2775
distance_CMYK	.2150	.3100
distance_RGB	.2500	.4075
distance_Lab	.2350	.3500

Wilcoxon Signed Ranks Test

Ranks

		N	Mean Rank	Sum of Ranks
distance_LCh - distance_HSV	Negative Ranks	9[a]	10,61	95,50
	Positive Ranks	6[b]	4,08	24,50
	Ties	1[c]		
	Total	16		
distance_CMYK - distance_HSV	Negative Ranks	15[d]	8,93	134,00
	Positive Ranks	1[e]	2,00	2,00
	Ties	0[f]		
	Total	16		
distance_RGB - distance_HSV	Negative Ranks	9[g]	6,39	57,50
	Positive Ranks	2[h]	4,25	8,50
	Ties	5[i]		
	Total	16		
distance_Lab - distance_HSV	Negative Ranks	11[j]	10,23	112,50
	Positive Ranks	5[k]	4,70	23,50
	Ties	0[l]		
	Total	16		
distance_CMYK - distance_LCh	Negative Ranks	7[m]	9,57	67,00
	Positive Ranks	9[n]	7,67	69,00
	Ties	0[o]		
	Total	16		
distance_RGB - distance_LCh	Negative Ranks	7[p]	5,36	37,50
	Positive Ranks	9[q]	10,94	98,50

Ranks

		N	Mean Rank	Sum of Ranks
	Ties	0 [r]		
	Total	16		
distance_Lab - distance_LCh	Negative Ranks	7 [s]	5,50	38,50
	Positive Ranks	9 [t]	10,83	97,50
	Ties	0 [u]		
	Total	16		
distance_RGB - distance_CMYK	Negative Ranks	2 [v]	6,00	12,00
	Positive Ranks	13 [w]	8,31	108,00
	Ties	1 [x]		
	Total	16		
distance_Lab - distance_CMYK	Negative Ranks	3 [y]	8,00	24,00
	Positive Ranks	12 [z]	8,00	96,00
	Ties	1 [aa]		
	Total	16		
distance_Lab - distance_RGB	Negative Ranks	11 [ab]	8,45	93,00
	Positive Ranks	5 [ac]	8,60	43,00
	Ties	0 [ad]		
	Total	16		

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	-2,017[b]	-3,424[b]	-2,191[b]	-2,317[b]	-,052[c]
Asymp. Sig. (2-tailed)	,044	,001	,028	,021	,959

Test Statistics^a

	distance_RGB - distance_LCh	distance_Lab - distance_LCh	distance_RGB - distance_CMYK	distance_Lab - distance_CMYK	distance_Lab - distance_RGB
Z	-1,578[c]	-1,528[c]	-2,752[c]	-2,049[c]	-1,314[b]
Asymp. Sig. (2-tailed)	,115	,127	,006	,040	,189

a. Wilcoxon Signed Ranks Test

b. Based on positive ranks.

c. Based on negative ranks.