```
 DATASET CLOSE DataSet1.
GET
  FILE='/Users/PauloGarcia/Desktop/blendingbox/Analysis/First Study/SPSS Files
/datasets/q12_anal_lab.sav'.
DATASET NAME DataSet3 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 17:38:56**
Comments		
Input	**Data**	**/Users/PauloGarcia/Desktop/blendingbox/Analysis/First Study/SPSS Files/datasets/q12_anal_lab.sav**
	Active Dataset	**DataSet3**
	Filter	**<none>**
	Weight	**<none>**
	Split File	**<none>**
	N of Rows in Working Data File	**21**
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**	**00:00:03,31**
	Elapsed Time	**00:00:03,00**

[DataSet3] /Users/PauloGarcia/Desktop/blendingbox/Analysis/First Study/SPSS Files/datasets/q12_anal_lab.sav

Case Processing Summary

	Cases					
	Valid		Missing		Total	
	N	Percent	N	Percent	N	Percent
distance_expectedC1C2	21	100,0%	0	0,0%	21	100,0%
distance_HSV	21	100,0%	0	0,0%	21	100,0%
distance_LCh	21	100,0%	0	0,0%	21	100,0%
distance_CMYK	21	100,0%	0	0,0%	21	100,0%
distance_RGB	21	100,0%	0	0,0%	21	100,0%
distance_Lab	21	100,0%	0	0,0%	21	100,0%

Descriptives

			Statistic	Std. Error
distance_expected C1C2	Mean		.4133	.03287
	95% Confidence Interval for Mean	Lower Bound	.3448	
		Upper Bound	.4819	
	5% Trimmed Mean		.4161	
	Median		.4200	
	Variance		,023	
	Std. Deviation		.15061	
	Minimum		.12	
	Maximum		.66	
	Range		.54	
	Interquartile Range		.25	
	Skewness		-,542	,501
	Kurtosis		-,579	,972
distance_HSV	Mean		.1067	.02758
	95% Confidence Interval for Mean	Lower Bound	.0491	
		Upper Bound	.1642	
	5% Trimmed Mean		.0979	
	Median		.0400	
	Variance		,016	
	Std. Deviation		.12639	
	Minimum		.01	
	Maximum		.36	
	Range		.35	
	Interquartile Range		.11	
	Skewness		1,440	,501
	Kurtosis		,296	,972
distance_LCh	Mean		.2343	.01448
	95% Confidence Interval for Mean	Lower Bound	.2041	
		Upper Bound	.2645	
	5% Trimmed Mean		.2297	
	Median		.2200	
	Variance		,004	
	Std. Deviation		.06638	
	Minimum		.16	
	Maximum		.39	
	Range		.23	
	Interquartile Range		.08	
	Skewness		1,313	,501
	Kurtosis		1,176	,972
distance_CMYK	Mean		.1314	.00865
	95% Confidence Interval for Mean	Lower Bound	.1134	
		Upper Bound	.1495	
	5% Trimmed Mean		.1321	
	Median		.1400	

Descriptives

			Statistic	Std. Error
	Variance		,002	
	Std. Deviation		.03966	
	Minimum		.05	
	Maximum		.20	
	Range		.15	
	Interquartile Range		.05	
	Skewness		-,436	,501
	Kurtosis		-,277	,972
distance_RGB	Mean		.1510	.01693
	95% Confidence Interval for Mean	Lower Bound	.1156	
		Upper Bound	.1863	
	5% Trimmed Mean		.1510	
	Median		.1400	
	Variance		,006	
	Std. Deviation		.07758	
	Minimum		.02	
	Maximum		.28	
	Range		.26	
	Interquartile Range		.09	
	Skewness		,256	,501
	Kurtosis		-,489	,972
distance_Lab	Mean		.1743	.01590
	95% Confidence Interval for Mean	Lower Bound	.1411	
		Upper Bound	.2074	
	5% Trimmed Mean		.1769	
	Median		.1800	
	Variance		,005	
	Std. Deviation		.07284	
	Minimum		.02	
	Maximum		.28	
	Range		.26	
	Interquartile Range		.10	
	Skewness		-,495	,501
	Kurtosis		-,390	,972

Tests of Normality

	Kolmogorov-Smirnov[a]			Shapiro-Wilk		
	Statistic	df	Sig.	Statistic	df	Sig.
distance_expectedC1C2	,147	21	,200*	,944	21	,264
distance_HSV	,406	21	,000	,622	21	,000
distance_LCh	,228	21	,006	,848	21	,004
distance_CMYK	,157	21	,192	,957	21	,461
distance_RGB	,168	21	,126	,933	21	,155
distance_Lab	,137	21	,200*	,954	21	,401

*. 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 17:39:14
Comments		
Input	Data	/Users/PauloGarcia/Desktop/blendingbox/Analysis/First Study/SPSS Files/datasets/q12_anal_lab.sav
	Active Dataset	DataSet3
	Filter	<none>
	Weight	<none>
	Split File	<none>
	N of Rows in Working Data File	21
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	00:00:00,00
	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	21	.4133	.15061	.12	.66	.2850
distance_HSV	21	.1067	.12639	.01	.36	.0400
distance_LCh	21	.2343	.06638	.16	.39	.1800
distance_CMYK	21	.1314	.03966	.05	.20	.1100
distance_RGB	21	.1510	.07758	.02	.28	.1050
distance_Lab	21	.1743	.07284	.02	.28	.1300

Descriptive Statistics

	Percentiles	
	50th (Median)	75th
distance_expectedC1C2	.4200	.5300
distance_HSV	.0400	.1450
distance_LCh	.2200	.2550
distance_CMYK	.1400	.1600
distance_RGB	.1400	.1950
distance_Lab	.1800	.2350

Friedman Test

Ranks

	Mean Rank
distance_expected C1C2	5,86
distance_HSV	1,83
distance_LCh	4,67
distance_CMYK	2,31
distance_RGB	2,67
distance_Lab	3,67

Test Statistics[a]

N	21
Chi-Square	71,788
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_Lab distance_RGB distance_Lab (PAIRED)
  /STATISTICS DESCRIPTIVES QUARTILES
  /MISSING ANALYSIS.
```

NPar Tests

Notes

Output Created		21-SEP-2016 17:40:23
Comments		
Input	Data	/Users/PauloGarcia/Desktop/blendingbox/Analysis/First Study/SPSS Files/datasets/q12_anal_lab.sav
	Active Dataset	DataSet3
	Filter	<none>
	Weight	<none>
	Split File	<none>
	N of Rows in Working Data File	21
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_Lab distance_RGB 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	21	.1067	.12639	.01	.36	.0400
distance_LCh	21	.2343	.06638	.16	.39	.1800
distance_CMYK	21	.1314	.03966	.05	.20	.1100
distance_RGB	21	.1510	.07758	.02	.28	.1050
distance_Lab	21	.1743	.07284	.02	.28	.1300

Descriptive Statistics

	Percentiles	
	50th (Median)	75th
distance_HSV	.0400	.1450
distance_LCh	.2200	.2550
distance_CMYK	.1400	.1600
distance_RGB	.1400	.1950
distance_Lab	.1800	.2350

Wilcoxon Signed Ranks Test

Ranks

		N	Mean Rank	Sum of Ranks
distance_LCh - distance_HSV	Negative Ranks	3[a]	5,33	16,00
	Positive Ranks	18[b]	11,94	215,00
	Ties	0[c]		
	Total	21		
distance_CMYK - distance_HSV	Negative Ranks	5[d]	15,10	75,50
	Positive Ranks	16[e]	9,72	155,50
	Ties	0[f]		
	Total	21		
distance_RGB - distance_HSV	Negative Ranks	5[g]	7,20	36,00
	Positive Ranks	15[h]	11,60	174,00
	Ties	1[i]		
	Total	21		
distance_Lab - distance_HSV	Negative Ranks	4[j]	8,50	34,00
	Positive Ranks	17[k]	11,59	197,00
	Ties	0[l]		
	Total	21		
distance_CMYK - distance_LCh	Negative Ranks	20[m]	11,50	230,00
	Positive Ranks	1[n]	1,00	1,00
	Ties	0[o]		
	Total	21		
distance_RGB - distance_LCh	Negative Ranks	18[p]	12,22	220,00
	Positive Ranks	3[q]	3,67	11,00

Ranks

		N	Mean Rank	Sum of Ranks
	Ties	0[r]		
	Total	21		
distance_Lab - distance_LCh	Negative Ranks	18[s]	11,14	200,50
	Positive Ranks	3[t]	10,17	30,50
	Ties	0[u]		
	Total	21		
distance_Lab - distance_CMYK	Negative Ranks	3[v]	4,00	12,00
	Positive Ranks	18[w]	12,17	219,00
	Ties	0[x]		
	Total	21		
distance_RGB - distance_CMYK	Negative Ranks	6[y]	8,92	53,50
	Positive Ranks	12[z]	9,79	117,50
	Ties	3[aa]		
	Total	21		
distance_Lab - distance_RGB	Negative Ranks	1[ab]	7,00	7,00
	Positive Ranks	16[ac]	9,13	146,00
	Ties	4[ad]		
	Total	21		

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_Lab < distance_CMYK
w. distance_Lab > distance_CMYK
x. distance_Lab = distance_CMYK
y. distance_RGB < distance_CMYK
z. distance_RGB > distance_CMYK
aa. distance_RGB = 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	-3,461[b]	-1,394[b]	-2,582[b]	-2,835[b]	-3,988[c]
Asymp. Sig. (2-tailed)	,001	,163	,010	,005	,000

Test Statistics[a]

	distance_RGB - distance_LCh	distance_Lab - distance_LCh	distance_Lab - distance_CMYK	distance_RGB - distance_CMYK	distance_Lab - distance_RGB
Z	-3,640[c]	-2,963[c]	-3,608[b]	-1,402[b]	-3,333[b]
Asymp. Sig. (2-tailed)	,000	,003	,000	,161	,001

a. Wilcoxon Signed Ranks Test

b. Based on negative ranks.

c. Based on positive ranks.