```
 GET
  FILE='/Users/PauloGarcia/Desktop/blendingbox/Analysis/First Study/SPSS Files
/datasets/q5_anal_lab.sav'.
DATASET NAME DataSet5 WINDOW=FRONT.
DATASET ACTIVATE DataSet5.
DATASET CLOSE DataSet4.
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 16:56:10**
Comments		
Input	**Data**	**/Users/PauloGarcia/Desktop/blendingbox/Analysis/First Study/SPSS Files/datasets/q5_anal_lab.sav**
	Active Dataset	**DataSet5**
	Filter	**<none>**
	Weight	**<none>**
	Split File	**<none>**
	N of Rows in Working Data File	**18**
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	00:00:03,00

Case Processing Summary

	Cases					
	Valid		Missing		Total	
	N	Percent	N	Percent	N	Percent
distance_expectedC1C2	18	100,0%	0	0,0%	18	100,0%
distance_HSV	18	100,0%	0	0,0%	18	100,0%
distance_LCh	18	100,0%	0	0,0%	18	100,0%
distance_CMYK	18	100,0%	0	0,0%	18	100,0%
distance_RGB	18	100,0%	0	0,0%	18	100,0%
distance_Lab	18	100,0%	0	0,0%	18	100,0%

Descriptives

			Statistic	Std. Error
distance_expected C1C2	Mean		.3183	.04376
	95% Confidence Interval for Mean	Lower Bound	.2260	
		Upper Bound	.4106	
	5% Trimmed Mean		.3104	
	Median		.3100	
	Variance		,034	
	Std. Deviation		.18564	
	Minimum		.05	
	Maximum		.73	
	Range		.68	
	Interquartile Range		.31	
	Skewness		,453	,536
	Kurtosis		-,236	1,038
distance_HSV	Mean		.1683	.02384
	95% Confidence Interval for Mean	Lower Bound	.1180	
		Upper Bound	.2186	
	5% Trimmed Mean		.1631	
	Median		.1500	
	Variance		,010	
	Std. Deviation		.10113	
	Minimum		.03	
	Maximum		.40	
	Range		.37	
	Interquartile Range		.12	
	Skewness		,732	,536
	Kurtosis		,442	1,038
distance_LCh	Mean		.1500	.01886
	95% Confidence Interval for Mean	Lower Bound	.1102	
		Upper Bound	.1898	
	5% Trimmed Mean		.1461	
	Median		.1500	
	Variance		,006	
	Std. Deviation		.08000	
	Minimum		.03	
	Maximum		.34	
	Range		.31	
	Interquartile Range		.12	
	Skewness		,621	,536
	Kurtosis		,412	1,038
distance_CMYK	Mean		.1322	.01600
	95% Confidence Interval for Mean	Lower Bound	.0985	
		Upper Bound	.1660	
	5% Trimmed Mean		.1319	
	Median		.1400	

Descriptives

			Statistic	Std. Error
	Variance		,005	
	Std. Deviation		.06787	
	Minimum		.01	
	Maximum		.26	
	Range		.25	
	Interquartile Range		.11	
	Skewness		-,026	,536
	Kurtosis		-,482	1,038
distance_RGB	Mean		.1389	.02146
	95% Confidence Interval for Mean	Lower Bound	.0936	
		Upper Bound	.1842	
	5% Trimmed Mean		.1354	
	Median		.1200	
	Variance		,008	
	Std. Deviation		.09106	
	Minimum		.02	
	Maximum		.32	
	Range		.30	
	Interquartile Range		.14	
	Skewness		,661	,536
	Kurtosis		-,407	1,038
distance_Lab	Mean		.1350	.01786
	95% Confidence Interval for Mean	Lower Bound	.0973	
		Upper Bound	.1727	
	5% Trimmed Mean		.1322	
	Median		.1350	
	Variance		,006	
	Std. Deviation		.07579	
	Minimum		.03	
	Maximum		.29	
	Range		.26	
	Interquartile Range		.11	
	Skewness		,496	,536
	Kurtosis		-,192	1,038

Tests of Normality

	Kolmogorov-Smirnov[a]			Shapiro-Wilk		
	Statistic	df	Sig.	Statistic	df	Sig.
distance_expectedC1C2	,127	18	,200*	,957	18	,537
distance_HSV	,160	18	,200*	,926	18	,165
distance_LCh	,124	18	,200*	,965	18	,691
distance_CMYK	,101	18	,200*	,985	18	,985
distance_RGB	,193	18	,074	,926	18	,162
distance_Lab	,196	18	,066	,941	18	,298

*. 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 16:56:27
Comments		
Input	Data	/Users/PauloGarcia/Desktop/blendingbox/Analysis/First Study/SPSS Files/datasets/q5_anal_lab.sav
	Active Dataset	DataSet5
	Filter	<none>
	Weight	<none>
	Split File	<none>
	N of Rows in Working Data File	18
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	18	.3183	.18564	.05	.73	.1875
distance_HSV	18	.1683	.10113	.03	.40	.1025
distance_LCh	18	.1500	.08000	.03	.34	.0875
distance_CMYK	18	.1322	.06787	.01	.26	.0750
distance_RGB	18	.1389	.09106	.02	.32	.0700
distance_Lab	18	.1350	.07579	.03	.29	.0750

Descriptive Statistics

	Percentiles	
	50th (Median)	75th
distance_expectedC1C2	.3100	.5025
distance_HSV	.1500	.2200
distance_LCh	.1500	.2050
distance_CMYK	.1400	.1825
distance_RGB	.1200	.2125
distance_Lab	.1350	.1875

Friedman Test

Ranks

	Mean Rank
distance_expected C1C2	5,61
distance_HSV	3,86
distance_LCh	3,08
distance_CMYK	2,69
distance_RGB	2,94
distance_Lab	2,81

Test Statistics[a]

N	18
Chi-Square	32,720
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 16:57:05
Comments		
Input	Data	/Users/PauloGarcia/Desktop/blendingbox/Analysis/First Study/SPSS Files/datasets/q5_anal_lab.sav
	Active Dataset	DataSet5
	Filter	<none>
	Weight	<none>
	Split File	<none>
	N of Rows in Working Data File	18
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	18	.1683	.10113	.03	.40	.1025
distance_LCh	18	.1500	.08000	.03	.34	.0875
distance_CMYK	18	.1322	.06787	.01	.26	.0750
distance_RGB	18	.1389	.09106	.02	.32	.0700
distance_Lab	18	.1350	.07579	.03	.29	.0750

Descriptive Statistics

	Percentiles	
	50th (Median)	75th
distance_HSV	.1500	.2200
distance_LCh	.1500	.2050
distance_CMYK	.1400	.1825
distance_RGB	.1200	.2125
distance_Lab	.1350	.1875

Wilcoxon Signed Ranks Test

Ranks

		N	Mean Rank	Sum of Ranks
distance_LCh - distance_HSV	Negative Ranks	10[a]	9,00	90,00
	Positive Ranks	7[b]	9,00	63,00
	Ties	1[c]		
	Total	18		
distance_CMYK - distance_HSV	Negative Ranks	12[d]	9,46	113,50
	Positive Ranks	4[e]	5,63	22,50
	Ties	2[f]		
	Total	18		
distance_RGB - distance_HSV	Negative Ranks	12[g]	10,71	128,50
	Positive Ranks	5[h]	4,90	24,50
	Ties	1[i]		
	Total	18		
distance_Lab - distance_HSV	Negative Ranks	14[j]	9,32	130,50
	Positive Ranks	3[k]	7,50	22,50
	Ties	1[l]		
	Total	18		
distance_CMYK - distance_LCh	Negative Ranks	9[m]	10,89	98,00
	Positive Ranks	8[n]	6,88	55,00
	Ties	1[o]		
	Total	18		
distance_RGB - distance_LCh	Negative Ranks	8[p]	11,75	94,00
	Positive Ranks	10[q]	7,70	77,00

Ranks

		N	Mean Rank	Sum of Ranks
	Ties	0[r]		
	Total	18		
distance_Lab - distance_LCh	Negative Ranks	9[s]	10,28	92,50
	Positive Ranks	8[t]	7,56	60,50
	Ties	1[u]		
	Total	18		
distance_RGB - distance_CMYK	Negative Ranks	7[v]	9,07	63,50
	Positive Ranks	10[w]	8,95	89,50
	Ties	1[x]		
	Total	18		
distance_Lab - distance_CMYK	Negative Ranks	7[y]	9,93	69,50
	Positive Ranks	10[z]	8,35	83,50
	Ties	1[aa]		
	Total	18		
distance_Lab - distance_RGB	Negative Ranks	6[ab]	9,17	55,00
	Positive Ranks	8[ac]	6,25	50,00
	Ties	4[ad]		
	Total	18		

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	-,640[b]	-2,358[b]	-2,475[b]	-2,579[b]	-1,021[b]
Asymp. Sig. (2-tailed)	,522	,018	,013	,010	,307

Test Statistics[a]

	distance_RGB - distance_LCh	distance_Lab - distance_LCh	distance_RGB - distance_CMYK	distance_Lab - distance_CMYK	distance_Lab - distance_RGB
Z	-,372[b]	-,758[b]	-,619[c]	-,334[c]	-,158[b]
Asymp. Sig. (2-tailed)	,710	,448	,536	,739	,874

a. Wilcoxon Signed Ranks Test

b. Based on positive ranks.

c. Based on negative ranks.