

## Nonparametric One-Way ANOVA

### The NPAR1WAY Procedure

Wilcoxon Scores (Rank Sums) for Variable num_subscribers Classified by Variable subject					
subject	N	Sum of Scores	Expected Under H0	Std Dev Under H0	Mean Score
Web Development	1203	3147946.00	2211715.50	30192.4654	2616.74647
Musical Instruments	680	843358.50	1250180.00	24984.9835	1240.23309
Business Finance	1191	1870316.50	2189653.50	30114.3007	1570.37490
Graphic Design	602	896705.00	1106777.00	23812.4391	1489.54319
Average scores were used for ties.					

Kruskal-Wallis Test	
Chi-Square	1004.0479
DF	3
Pr > Chi-Square	<.0001

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### The NPAR1WAY Procedure

Median Scores (Number of Points Above Median) for Variable num_subscribers Classified by Variable subject					
subject	N	Sum of Scores	Expected Under H0	Std Dev Under H0	Mean Score
Web Development	1203	975.0	601.50	14.226111	0.810474
Musical Instruments	680	166.0	340.00	11.772446	0.244118
Business Finance	1191	479.0	595.50	14.189282	0.402183
Graphic Design	602	218.0	301.00	11.219965	0.362126
Average scores were used for ties.					

Median One-Way Analysis	
Chi-Square	733.0993
DF	3
Pr > Chi-Square	<.0001

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### The NPAR1WAY Procedure

Van der Waerden Scores (Normal) for Variable num_subscribers Classified by Variable subject					
subject	N	Sum of Scores	Expected Under H0	Std Dev Under H0	Mean Score
Web Development	1203	860.25041	0.0	28.371877	0.715088
Musical Instruments	680	-348.74835	0.0	23.478403	-0.512865
Business Finance	1191	-309.06159	0.0	28.298426	-0.259498
Graphic Design	602	-202.44046	0.0	22.376563	-0.336280
Average scores were used for ties.					

Van der Waerden One-Way Analysis	
Chi-Square	947.3794
DF	3
Pr > Chi-Square	<.0001

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### The NPAR1WAY Procedure

Savage Scores (Exponential) for Variable num_subscribers Classified by Variable subject					
subject	N	Sum of Scores	Expected Under H0	Std Dev Under H0	Mean Score
Web Development	1203	793.31284	0.0	28.418181	0.659445
Musical Instruments	680	-307.75693	0.0	23.516721	-0.452584
Business Finance	1191	-315.86598	0.0	28.344610	-0.265211
Graphic Design	602	-169.68993	0.0	22.413082	-0.281877
Average scores were used for ties.					

Savage One-Way Analysis	
Chi-Square	795.7219
DF	3
Pr > Chi-Square	<.0001

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### The NPAR1WAY Procedure

Kolmogorov-Smirnov Test for Variable num_subscribers Classified by Variable subject			
subject	N	EDF at Maximum	Deviation from Mean at Maximum
Web Development	1203	0.098088	-11.071687
Musical Instruments	680	0.695588	7.256832
Business Finance	1191	0.513014	3.303134
Graphic Design	602	0.551495	3.292532
Total	3676	0.417301	
Maximum Deviation Occurred at Observation 2143			
Value of num_subscribers at Maximum = 521.0			

Kolmogorov-Smirnov Statistics (Asymptotic)			
KS	0.231494	KSa	14.035502

Cramer-von Mises Test for Variable num_subscribers Classified by Variable subject		
subject	N	Summed Deviation from Mean
Web Development	1203	64.823088
Musical Instruments	680	23.381095
Business Finance	1191	7.463208
Graphic Design	602	6.258921

Cramer-von Mises Statistics (Asymptotic)			
CM	0.027728	CMa	101.926313