

Siegel-Tukey Scale Test

Siegel-Tukey Scale Test
Test-specific data preparation and execution

```
>Warning # 4492 on line 237 in column 42. Text: internet_bin  
>The (ADD) VALUE LABELS command included a symbol other than a value where a  
>value (either numeric or string) was expected. For compatibility with  
>previous systems, a parenthesized value would have been acceptable. All valu  
e  
>labels up to the next slash will be ignored.
```

Siegel-Tukey scale test

>Warning # 2004 on line 241. Command name: SUBTITLE

>The subtitle given exceeds 60 characters in length. The first 60 characters
>will be used.

Siegel-Tukey scale test
Median-adjusted G3 scale comparison between female and male

NPar Tests

Notes		
Output Created		16-JUL-2026 17:14:57
Comments		
Input	Data	D:\DATA ANALYSIS\J Nonparametric Tests\Siegel Tukey Test\dataset.csv
	Active Dataset	SiegelTukeyTestData
	Filter	<none>
	Weight	<none>
	Split File	<none>
	N of Rows in Working Data File	649
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 /M- W=st_absolute BY sex_bin(0,1) /STATISTICS=DESCRIPT IVES QUARTILES.
Resources	Processor Time	00:00:00.02
	Elapsed Time	00:00:00.01
	Number of Cases Allowed ^a	449389

a. Based on availability of workspace memory.

[SiegelTukeyTestData]

Siegel-Tukey scale test
Median-adjusted G3 scale comparison between female and male

Descriptive Statistics

	N	Mean	Std. Deviation	Minimum	Maximum	Percentiles	
						25th	50th (Median)
st_absolute	649	2.3621	2.18649	.00	12.00	1.0000	2.0000
sex_bin	649	.41	.492	0	1	.00	.00

Descriptive Statistics

	Percentiles
	75th
st_absolute	3.0000
sex_bin	1.00

Mann-Whitney Test

Ranks

	sex_bin	N	Mean Rank	Sum of Ranks
st_absolute	Female	383	332.64	127400.00
	Male	266	314.00	83525.00
	Total	649		

Test Statistics^a

	st_absolute
Mann-Whitney U	48014.000
Wilcoxon W	83525.000
Z	-1.270
Asymp. Sig. (2-tailed)	.204

a. Grouping Variable: sex_bin

Explore

Siegel-Tukey scale test
Median-adjusted G3 scale comparison between female and male

Notes

Output Created		16-JUL-2026 17:14:57
Comments		
Input	Data	D:\DATA ANALYSIS\J Nonparametric Tests\Siegel Tukey Test\dataset.csv
	Active Dataset	SiegelTukeyTestData
	Filter	<none>
	Weight	<none>
	Split File	<none>
	N of Rows in Working Data File	649
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=st_centered BY sex_bin /PLOT=BOXPLOT /STATISTICS=DESCRIPTIVES /NOTOTAL.
Resources	Processor Time	00:00:00.50
	Elapsed Time	00:00:00.54

sex_bin

Case Processing Summary

		Valid		Cases Missing		Total	
	sex_bin	N	Percent	N	Percent	N	Percent
st_centered	Female	383	100.0%	0	0.0%	383	100.0%
	Male	266	100.0%	0	0.0%	266	100.0%

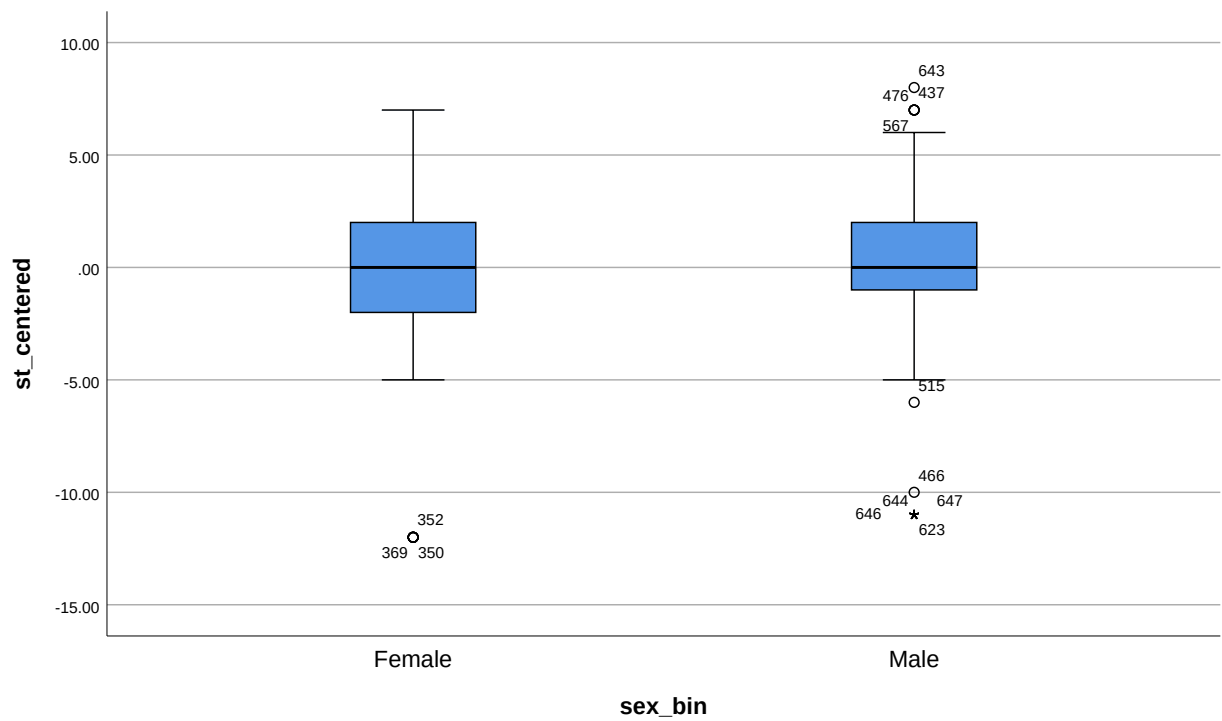
Siegel-Tukey scale test
Median-adjusted G3 scale comparison between female and male

Descriptives

sex_bin		Statistic		Std. Error
st_centered	Female	Mean		.2533
		95% Confidence Interval for Mean	Lower Bound	.15964
			Upper Bound	
		5% Trimmed Mean		
		Median		.3709
		Variance		.0000
		Std. Deviation		9.760
		Minimum		3.12415
		Maximum		-12.00
		Range		7.00
		Interquartile Range		19.00
		Skewness		4.00
		Kurtosis		-.857
				.125
				.249
	Male	Mean		.4060
		95% Confidence Interval for Mean	Lower Bound	.20360
			Upper Bound	
		5% Trimmed Mean		
		Median		.5961
		Variance		.0000
		Std. Deviation		11.027
		Minimum		3.32069
		Maximum		-11.00
		Range		8.00
		Interquartile Range		19.00
		Skewness		3.00
		Kurtosis		-.980
				.149
				.298

st_centered

Siegel-Tukey scale test
Median-adjusted G3 scale comparison between female and male



Graph

Siegel-Tukey scale test
Median-adjusted G3 scale comparison between female and male

Notes

Output Created		16-JUL-2026 17:14:58
Comments		
Input	Data	D:\DATA ANALYSIS\J Nonparametric Tests\Siegel Tukey Test\dataset.csv
	Active Dataset	SiegelTukeyTestData
	Filter	<none>
	Weight	<none>
	Split File	<none>
	N of Rows in Working Data File	649
Syntax		GRAPH /BAR(GROUPED) =MEAN(st_absolute) BY sex_bin.
Resources	Processor Time	00:00:00.47
	Elapsed Time	00:00:00.40

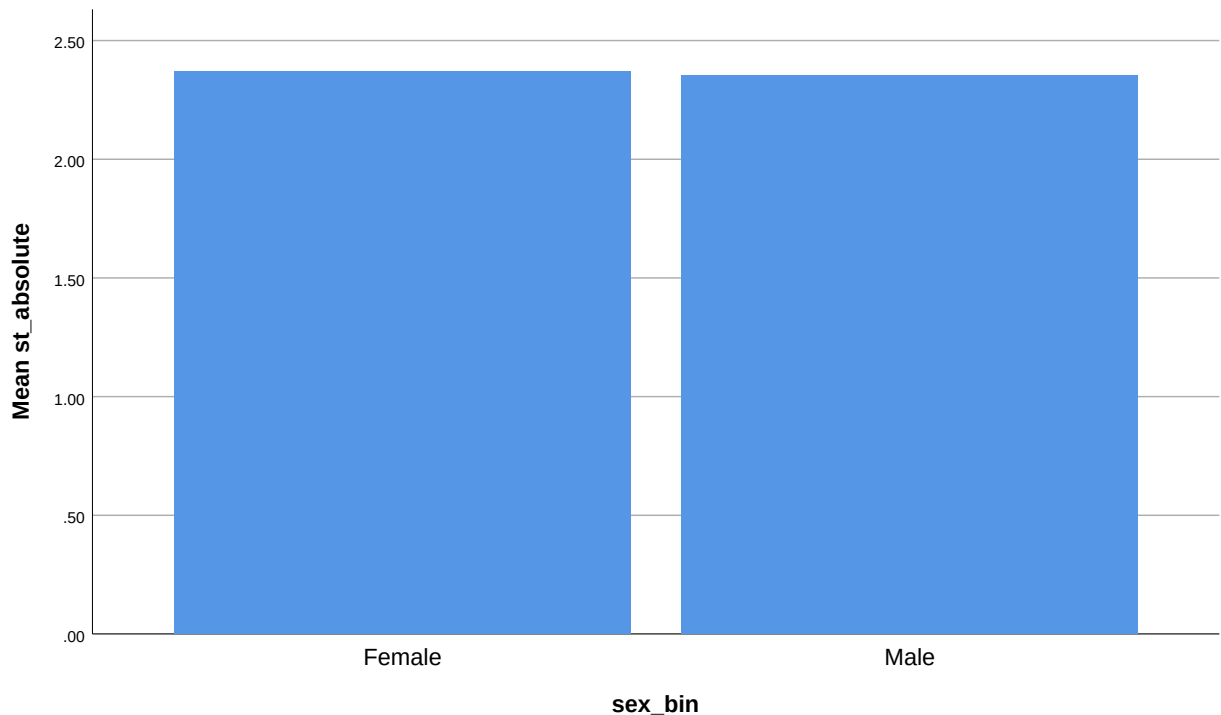
>Warning # 17848

>The requested bar chart type cannot be drawn with the provided data. Instead

,

>Graphics will attempt to draw a simple bar chart.

Siegel-Tukey scale test
Median-adjusted G3 scale comparison between female and male



```
>Warning # 5334 on line 249. Command name: SAVE
>The SAVE command has succeeded. However, due to contention for the specified
>file, the data have been saved to a file with a different name.
>Saved to D:\DATA ANALYSIS\J Nonparametric Tests\Siegel Tukey Test\SPSS_Output
\sav\siegel-tukey-test_spss_ready_data_1.sav.
```

=====

SIEGEL-TUKEY SCALE TEST

Formula: Alternating extreme ranks are assigned 1,2,3,...; the group score sum is standardized by its permutation variance.

Variables: median-centered G3, sex

expected_score_sum = 124475.0

female_score_sum = 121481.97107087617

p_value = 0.19236124639723062

variance = 5271279.28271198

z_statistic = -1.3036256626852152

Cross-check status: pass

=====