

# Table of Analyses

## Proportion & Association

Samples	Categories	Tests
1	2	One-sample $\chi^2$ test, binomial test
1	$\geq 2$	One-sample $\chi^2$ test, multinomial test
2	$\geq 2$	Two-sample $\chi^2$ test, <i>G</i> -test, Fisher's exact test

## Assumptions & Distributions

- Normality:  
Shapiro-Wilk test  
Anderson-Darling test
- Homoscedasticity:  
Levene's test  
Brown-Forsythe test
- Sphericity:  
Mauchly's test of sphericity
- Distribution tests:  
Kolmogorov-Smirnov test  
 $\chi^2$  goodness-of-fit test

## Analyses of Variance

Factors	Levels	<u>B</u> etween <u>or</u> <u>W</u> ithin	Parametric Tests & Linear (Mixed) Models	Nonparametric Tests & Generalized Linear (Mixed) Models
1	2	B	Independent-samples <i>t</i> -test	Mann-Whitney <i>U</i> test
1	2	W	Paired-samples <i>t</i> -test	Wilcoxon signed-rank test
1	$\geq 2$	B	One-way ANOVA	Kruskal-Wallis test
1	$\geq 2$	W	One-way repeated measures ANOVA	Friedman test
$\geq 2$	$\geq 2$	B	Factorial ANOVA Linear Model (LM)	Aligned Rank Transform (ART) Generalized Linear Model (GLM)
$\geq 2$	$\geq 2$	W	Factorial repeated measures ANOVA Linear Mixed Model (LMM)	Aligned Rank Transform (ART) Generalized Linear Mixed Model (GLMM)