**Bestiary of Statistical Tests**

|  |  |  |
| --- | --- | --- |
|  |  | **Independent Variable (X)** |
|  |  | **Continuous** | **Binomial** | **Nominal** | **Ordinal** | **Count** |
| **Dependent Variable (Y)** | **Continuous** | **Regression** | **t-test** | **ANOVA** | **ANOVA;** **Regression** | **ANOVA;****Regression** |
| **Binomial** | **Logistic regression;** **t-test** (Flip X and Y) | **Logistic regression;** **Chi-square** | **Logistic regression;** **Chi-square** | **Logistic regression;** **Chi-square** | **Logistic regression;** **Chi-square** |
| **Nominal** | Multinomial regression; **Chi-square** (Categorize X)**;** **ANOVA** (Flip X and Y) | **Chi-square**  | **Chi-square**  | **Chi-square**  | **Chi-square**  |
| **Ordinal** | Multinomial regression; **Chi-square** (Categorize X);**ANOVA** (Flip X and Y) | **Chi-square**  | **Chi-square**  | **Chi-square**  | **Chi-square** |
| **Count** | Poisson regression;  | Poisson regression;**Chi-square** | Poisson regression;**Chi-square** | Poisson regression;**Chi-square** | Poisson regression;**Chi-square** |

Tests in **BOLD** are taught in WILD 3750; Tests highlighted in yellow are subsets of general linear modeling; Test listed first is best