**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