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| Method | Pros | Cons |
| Tukey's HSD | * Controls the overall Type I error rate. * Suitable for balanced/unbalanced designs. | * Assumes homogeneity of variances. |
| Bonferroni Correction | * Extremely conservative approach. * Suitable for any design * Does not assume equal variances. | * Prone to increased Type II errors. |
| Holm's Method | * Less conservative than Bonferroni. * Adjusts for multiple comparisons. * Does not assume equal variances. | * Requires ordering of p-values. |