1. Open shiny\_xanova.R file.
2. Click ‘app run’.
3. Click ‘Input your data’, upload your dataframe like this:

Table 1

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Sepal.Length | Sepal.Width | Petal.Length | Petal.Width | group |
| 5.1 | 3.5 | 1.4 | 0.2 | setosa |
| 4.9 | 3 | 1.4 | 0.2 | versicolor |
| 4.7 | 3.2 | 1.3 | 0.2 | virginica |
| 4.6 | 3.1 | 1.5 | 0.2 | setosa |
| … | … | … | … | … |

Or like this:

Table 2

|  |  |
| --- | --- |
| value | group |
| 0.2 | setosa |
| 0.2 | versicolor |
| 0.2 | virginica |
| 0.4 | setosa |
| … | … |

1. Choose hsd methods (default as duncan’s test), and perform one-way anova and post hsd.
2. You can download the anova results.
3. Choose the plot type and group type to quickly visualize. Ps: Data like Table 1, choose group or facet; data like Table 2, choose none (default).
4. Input your x axis and y axis names.
5. You can adjust the sig label position, if the labels are out of the plot.
6. You can input palette you like, different colors are separated by commas, and the number is the same as the number of groups you have. E. g: #2f0273,#8f3129,#958940.
7. Set the width and height of plot you output.
8. Download the plot.