|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Within-Subjects Factors** | | | | | |
| Measure: MEASURE\_1 | | | | | |
| Retention | | Dependent Variable | | | |
| 1 | | Retention1 | | | |
| 2 | | Retention2 | | | |
| **Between-Subjects Factors** | | | | | | | | | |
|  | | | Value Label | | | | N | | |
| Group | 1.00 | | RedGroup | | | | 10 | | |
| 2.00 | | GreenGroup | | | | 9 | | |
| 3.00 | | CTRL | | | | 10 | | |
| 4.00 | | SmallReds | | | | 6 | | |
| **Multivariate Testsa** | | | | | | | | | | | | | | | | | | | | |
| Effect | | | | | | | | | Value | | F | | Hypothesis df | | | Error df | Sig. | | Partial Eta Squared | |
| Retention | | | | Pillai's Trace | | | | | .619 | | 50.325b | | 1.000 | | | 31.000 | .000 | | .619 | |
| Wilks' Lambda | | | | | .381 | | 50.325b | | 1.000 | | | 31.000 | .000 | | .619 | |
| Hotelling's Trace | | | | | 1.623 | | 50.325b | | 1.000 | | | 31.000 | .000 | | .619 | |
| Roy's Largest Root | | | | | 1.623 | | 50.325b | | 1.000 | | | 31.000 | .000 | | .619 | |
| Retention \* Group | | | | Pillai's Trace | | | | | .474 | | 9.311b | | 3.000 | | | 31.000 | .000 | | .474 | |
| Wilks' Lambda | | | | | .526 | | 9.311b | | 3.000 | | | 31.000 | .000 | | .474 | |
| Hotelling's Trace | | | | | .901 | | 9.311b | | 3.000 | | | 31.000 | .000 | | .474 | |
| Roy's Largest Root | | | | | .901 | | 9.311b | | 3.000 | | | 31.000 | .000 | | .474 | |
| a. Design: Intercept + Group  Within Subjects Design: Retention | | | | | | | | | | | | | | | | | | | | |
| b. Exact statistic | | | | | | | | | | | | | | | | | | | | |
| **Mauchly's Test of Sphericitya** | | | | | | | | | | | | | | | | | | | | | |
| Measure: MEASURE\_1 | | | | | | | | | | | | | | | | | | | | | |
| Within Subjects Effect | | | | | Mauchly's W | | | Approx. Chi-Square | | | | df | | Sig. | Epsilonb | | | | | | |
| Greenhouse-Geisser | | | Huynh-Feldt | | Lower-bound | |
| Retention | | | | | 1.000 | | | .000 | | | | 0 | | . | 1.000 | | | 1.000 | | 1.000 | |
| Tests the null hypothesis that the error covariance matrix of the orthonormalized transformed dependent variables is proportional to an identity matrix. | | | | | | | | | | | | | | | | | | | | | |
| a. Design: Intercept + Group  Within Subjects Design: Retention | | | | | | | | | | | | | | | | | | | | | |
| b. May be used to adjust the degrees of freedom for the averaged tests of significance. Corrected tests are displayed in the Tests of Within-Subjects Effects table. | | | | | | | | | | | | | | | | | | | | | |

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Tests of Within-Subjects Effects** | | | | | | | |
| Measure: MEASURE\_1 | | | | | | | |
| Source | | Type III Sum of Squares | df | Mean Square | F | Sig. | Partial Eta Squared |
| Retention | Sphericity Assumed | 431.588 | 1 | 431.588 | 50.325 | .000 | .619 |
| Greenhouse-Geisser | 431.588 | 1.000 | 431.588 | 50.325 | .000 | .619 |
| Huynh-Feldt | 431.588 | 1.000 | 431.588 | 50.325 | .000 | .619 |
| Lower-bound | 431.588 | 1.000 | 431.588 | 50.325 | .000 | .619 |
| Retention \* Group | Sphericity Assumed | 239.543 | 3 | 79.848 | 9.311 | .000 | .474 |
| Greenhouse-Geisser | 239.543 | 3.000 | 79.848 | 9.311 | .000 | .474 |
| Huynh-Feldt | 239.543 | 3.000 | 79.848 | 9.311 | .000 | .474 |
| Lower-bound | 239.543 | 3.000 | 79.848 | 9.311 | .000 | .474 |
| Error(Retention) | Sphericity Assumed | 265.857 | 31 | 8.576 |  |  |  |
| Greenhouse-Geisser | 265.857 | 31.000 | 8.576 |  |  |  |
| Huynh-Feldt | 265.857 | 31.000 | 8.576 |  |  |  |
| Lower-bound | 265.857 | 31.000 | 8.576 |  |  |  |

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Tests of Within-Subjects Contrasts** | | | | | | | |
| Measure: MEASURE\_1 | | | | | | | |
| Source | Retention | Type III Sum of Squares | df | Mean Square | F | Sig. | Partial Eta Squared |
| Retention | Linear | 431.588 | 1 | 431.588 | 50.325 | .000 | .619 |
| Retention \* Group | Linear | 239.543 | 3 | 79.848 | 9.311 | .000 | .474 |
| Error(Retention) | Linear | 265.857 | 31 | 8.576 |  |  |  |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Tests of Between-Subjects Effects** | | | | | | |
| Measure: MEASURE\_1 | | | | | | |
| Transformed Variable: Average | | | | | | |
| Source | Type III Sum of Squares | df | Mean Square | F | Sig. | Partial Eta Squared |
| Intercept | 8489.977 | 1 | 8489.977 | 106.962 | .000 | .775 |
| Group | 123.208 | 3 | 41.069 | .517 | .673 | .048 |
| Error | 2460.575 | 31 | 79.373 |  |  |  |

**Post Hoc Tests**

**Group**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Multiple Comparisons** | | | | | | |
| Measure: MEASURE\_1 | | | | | | |
| LSD | | | | | | |
| (I) Group | (J) Group | Mean Difference (I-J) | Std. Error | Sig. | 95% Confidence Interval | |
| Lower Bound | Upper Bound |
| RedGroup | GreenGroup | .0472 | 2.89453 | .987 | -5.8562 | 5.9507 |
| CTRL | -2.0890 | 2.81733 | .464 | -7.8350 | 3.6570 |
| SmallReds | 1.8467 | 3.25317 | .574 | -4.7882 | 8.4816 |
| GreenGroup | RedGroup | -.0472 | 2.89453 | .987 | -5.9507 | 5.8562 |
| CTRL | -2.1362 | 2.89453 | .466 | -8.0397 | 3.7672 |
| SmallReds | 1.7994 | 3.32025 | .592 | -4.9723 | 8.5711 |
| CTRL | RedGroup | 2.0890 | 2.81733 | .464 | -3.6570 | 7.8350 |
| GreenGroup | 2.1362 | 2.89453 | .466 | -3.7672 | 8.0397 |
| SmallReds | 3.9357 | 3.25317 | .236 | -2.6992 | 10.5706 |
| SmallReds | RedGroup | -1.8467 | 3.25317 | .574 | -8.4816 | 4.7882 |
| GreenGroup | -1.7994 | 3.32025 | .592 | -8.5711 | 4.9723 |
| CTRL | -3.9357 | 3.25317 | .236 | -10.5706 | 2.6992 |
| Based on observed means.  The error term is Mean Square(Error) = 39.687. | | | | | | |

