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Assignment8

A. Effect of type of interface to time of completion

1. Null Hypothesis : Mean1 = Mean2 = Mean3 = Mean4

Alternative Hypothesis : Mean1 != Mean2 != Mean3 != Mean4

1. One way ANOVA
2. .05
3. 테이블이(가) 표시된 사진

   자동 생성된 설명
4. is rejected. The Levene’s test is not significant because it is bigger than .05. Only the effect of Condition2 and Condition4 reaches significance (p<.05). Condition1 and Condition2, Condition1 and Condition3, Condition1 and Condition4, Condition2 and Condition3, Condition3 and Condition4 do not reach significance(p>.05). This could explain that only Condition2 and Condition4 differ in the completion of seconds.

B. Effect of type of interface to error rate

1. Null Hypothesis : Mean1 = Mean2 = Mean3 = Mean4

Alternative Hypothesis : Mean1 != Mean2 != Mean3 != Mean4

1. One way ANOVA
2. .05
3. 테이블이(가) 표시된 사진

   자동 생성된 설명
4. is rejected. The Levene’s test is not significant because it is larger than .05. This would explain that Mean1 = Mean2 = Mean3 = Mean4 because effect between all conditions do not reach significance (p>.05).

C. Effect of type of interface to perceived mental workload

1. Null Hypothesis : Mean1 = Mean2 = Mean3 = Mean4

Alternative Hypothesis : Mean1 != Mean2 != Mean3 != Mean4

1. One way ANOVA
2. .05
3. 테이블이(가) 표시된 사진

   자동 생성된 설명
4. is rejected. The Levene’s test is significant because it is smaller than .05. Only the effect of Condition1 and Condition4 reaches significance (p<.05). Condition1 and Condition2, Condition1 and Condition3, Condition2 and Condition3, Condition2 and Condition4, Condition3 and Condition4 do not reach significance(p>.05). This could explain that only Condition1 and Condition4 differ in perceived mental workload.

D. User’s preference of interface

1. Null Hypothesis : Mean1 = Mean2 = Mean3 = Mean4

Alternative Hypothesis : Mean1 != Mean2 != Mean3 != Mean4

1. One way ANOVA
2. .05
3. 테이블이(가) 표시된 사진

   자동 생성된 설명
4. is rejected. The Levene’s test is significant because it is smaller than .05. Only the effect of Condition1 and Condition4 reaches significance (p<.05). Condition1 and Condition2, Condition1 and Condition3, Condition2 and Condition3, Condition2 and Condition4, Condition3 and Condition4 do not reach significance(p>.05). This could explain that only Condition1 and Condition4 differ in the interface preference.