**All statistical tests and the numbers**

A screenshot of a cell phone

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# A:

| **Friedman Test** | | | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Factor** | | **Chi-Squared** | | **df** | | **p** | | **Kendall's W** | |
| Lateness |  | 416.351 |  | 3 |  | < .001 |  | 0.318 |  |
|  | | | | | | | | | |

Table . Joystick positions are different across latenesses.

| **Conover's Post Hoc Comparisons - Lateness** | | | | | | | | | | | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | |  | | **T-Stat** | | **df** | | **W i** | | **W j** | | **p** | | **p bonf** | | **p holm** | |
| Lateness 1 |  | Lateness 2 |  | 2.747 |  | 4011 |  | 3021.000 |  | 2838.500 |  | 0.006 |  | 0.036 |  | 0.006 |  |
|  |  | Lateness 3 |  | 6.224 |  | 4011 |  | 3021.000 |  | 3434.500 |  | < .001 |  | < .001 |  | < .001 |  |
|  |  | Lateness 4 |  | 16.031 |  | 4011 |  | 3021.000 |  | 4086.000 |  | < .001 |  | < .001 |  | < .001 |  |
| Lateness 2 |  | Lateness 3 |  | 8.971 |  | 4011 |  | 2838.500 |  | 3434.500 |  | < .001 |  | < .001 |  | < .001 |  |
|  |  | Lateness 4 |  | 18.778 |  | 4011 |  | 2838.500 |  | 4086.000 |  | < .001 |  | < .001 |  | < .001 |  |
| Lateness 3 |  | Lateness 4 |  | 9.807 |  | 4011 |  | 3434.500 |  | 4086.000 |  | < .001 |  | < .001 |  | < .001 |  |
|  | | | | | | | | | | | | | | | | | |

Table . The joystick values are different in every lateness from each other.

| **Kendall's Tau Correlations** | | | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | |  | |  | | **Kendall's tau B** | | **p** | |
| Joystick Position |  | - |  | Lateness |  | 0.203 | \*\*\* | < .001 |  |
|  | | | | | | | | | |
| \* p < .05, \*\* p < .01, \*\*\* p < .001 | | | | | | | | | |

Table . There is a positive relationship between the latenesses and the joystick positions.

# B:

| **Kendall's Tau Correlations** | | | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | |  | |  | | **Kendall's tau B** | | **p** | |
| CNV Slope |  | - |  | Lateness |  | -0.014 | \* | 0.019 |  |
|  | | | | | | | | | |
| \* p < .05, \*\* p < .01, \*\*\* p < .001 | | | | | | | | | |

# C:

| **Kendall's Tau Correlations** | | | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | |  | |  | | **Kendall's tau B** | | **p** | |
| CNV Slope |  | - |  | Joystick |  | 0.032 | \*\*\* | < .001 |  |
|  | | | | | | | | | |
| \* p < .05, \*\* p < .01, \*\*\* p < .001 | | | | | | | | | |

# B&D:

Repeated Measures ANOVA

| **Within Subjects Effects** | | | | | | | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | | **Sphericity Correction** | | **Sum of Squares** | | **df** | | **Mean Square** | | **F** | | **p** | |
| Lateness |  | None |  | 3.393e -4 |  | 3.000 |  | 1.131e -4 |  | 1.266 |  | 0.284 |  |
|  |  | Greenhouse-Geisser |  | 3.393e -4 |  | 2.986 |  | 1.136e -4 |  | 1.266 |  | 0.284 |  |
|  |  | Huynh-Feldt |  | 3.393e -4 |  | 2.994 |  | 1.133e -4 |  | 1.266 |  | 0.284 |  |
| Residual |  | None |  | 0.349 |  | 3912.000 |  | 8.932e -5 |  |  |  |  |  |
|  |  | Greenhouse-Geisser |  | 0.349 |  | 3894.247 |  | 8.973e -5 |  |  |  |  |  |
|  |  | Huynh-Feldt |  | 0.349 |  | 3904.174 |  | 8.950e -5 |  |  |  |  |  |
| Expectation Condition |  | None |  | 2.031e -4 | ᵃ | 2.000 | ᵃ | 1.015e -4 | ᵃ | 1.064 | ᵃ | 0.345 | ᵃ |
|  |  | Greenhouse-Geisser |  | 2.031e -4 | ᵃ | 1.980 | ᵃ | 1.026e -4 | ᵃ | 1.064 | ᵃ | 0.345 | ᵃ |
|  |  | Huynh-Feldt |  | 2.031e -4 | ᵃ | 1.983 | ᵃ | 1.024e -4 | ᵃ | 1.064 | ᵃ | 0.345 | ᵃ |
| Residual |  | None |  | 0.249 |  | 2608.000 |  | 9.541e -5 |  |  |  |  |  |
|  |  | Greenhouse-Geisser |  | 0.249 |  | 2581.435 |  | 9.639e -5 |  |  |  |  |  |
|  |  | Huynh-Feldt |  | 0.249 |  | 2585.339 |  | 9.625e -5 |  |  |  |  |  |
| Lateness ✻ Expectation Condition |  | None |  | 1.904e -4 |  | 6.000 |  | 3.173e -5 |  | 0.376 |  | 0.895 |  |
|  |  | Greenhouse-Geisser |  | 1.904e -4 |  | 5.957 |  | 3.196e -5 |  | 0.376 |  | 0.894 |  |
|  |  | Huynh-Feldt |  | 1.904e -4 |  | 5.987 |  | 3.180e -5 |  | 0.376 |  | 0.894 |  |
| Residual |  | None |  | 0.660 |  | 7824.000 |  | 8.436e -5 |  |  |  |  |  |
|  |  | Greenhouse-Geisser |  | 0.660 |  | 7767.452 |  | 8.497e -5 |  |  |  |  |  |
|  |  | Huynh-Feldt |  | 0.660 |  | 7807.071 |  | 8.454e -5 |  |  |  |  |  |
|  | | | | | | | | | | | | | |
| Note.  Type III Sum of Squares | | | | | | | | | | | | | |
| ᵃ Mauchly's test of sphericity indicates that the assumption of sphericity is violated (p < .05). | | | | | | | | | | | | | |

| **Between Subjects Effects** | | | | | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | | **Sum of Squares** | | **df** | | **Mean Square** | | **F** | | **p** | |
| Residual |  | 0.186 |  | 1304 |  | 1.424e -4 |  |  |  |  |  |
|  | | | | | | | | | | | |
| Note.  Type III Sum of Squares | | | | | | | | | | | |

Assumption Checks

| **Test of Sphericity** | | | | | | | | | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | | **Mauchly's W** | | **Approx. Χ²** | | **df** | | **p** | | **Greenhouse-Geisser ε** | | **Huynh-Feldt ε** | | **Lower Bound ε** | |
| Lateness |  | 0.993 |  | 8.905 |  | 5 |  | 0.113 |  | 0.995 |  | 0.998 |  | 0.333 |  |
| Expectation Condition |  | 0.990 |  | 13.479 |  | 2 |  | 0.001 |  | 0.990 |  | 0.991 |  | 0.500 |  |
| Lateness ✻ Expectation Condition |  | 0.979 |  | 28.078 |  | 20 |  | 0.108 |  | 0.993 |  | 0.998 |  | 0.167 |  |
|  | | | | | | | | | | | | | | | |

Descriptives Plot

A picture containing object

Description automatically generated

# E:

## Between predicting and non-predicting participants after joystick

Paired Samples T-Test

| **Paired Samples T-Test** | | | | | | | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | |  | |  | | **W** | | **p** | | **Hodges-Lehmann Estimate** | | **Rank-Biserial Correlation** | |
| CNVAfterPre |  | - |  | CNVAfterNopre |  | 307712.000 |  | < .001 |  | 0.003 |  | 0.201 |  |
|  | | | | | | | | | | | | | |
| Note.  Wilcoxon signed-rank test. | | | | | | | | | | | | | |

Assumption Checks

| **Test of Normality (Shapiro-Wilk)** | | | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | |  | |  | | **W** | | **p** | |
| CNVAfterPre |  | - |  | CNVAfterNopre |  | 0.988 |  | < .001 |  |
|  | | | | | | | | | |
| Note.  Significant results suggest a deviation from normality. | | | | | | | | | |

| **Descriptives** | | | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | | **N** | | **Mean** | | **SD** | | **SE** | |
| CNVAfterPre |  | 1012 |  | 8.011e -4 |  | 0.012 |  | 3.737e -4 |  |
| CNVAfterNopre |  | 1012 |  | -0.002 |  | 0.009 |  | 2.925e -4 |  |
|  | | | | | | | | | |

CNVAfterPre - CNVAfterNopre

A picture containing object

Description automatically generated

## Within participant before and after joystick

Paired Samples T-Test

| **Paired Samples T-Test** | | | | | | | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | |  | |  | | **W** | | **p** | | **Hodges-Lehmann Estimate** | | **Rank-Biserial Correlation** | |
| CNVBefore |  | - |  | CNVAfter |  | 255015.000 |  | 0.332 |  | 4.595e -4 |  | 0.036 |  |
|  | | | | | | | | | | | | | |
| Note.  Wilcoxon signed-rank test. | | | | | | | | | | | | | |

Assumption Checks

| **Test of Normality (Shapiro-Wilk)** | | | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | |  | |  | | **W** | | **p** | |
| CNVBefore |  | - |  | CNVAfter |  | 0.989 |  | < .001 |  |
|  | | | | | | | | | |
| Note.  Significant results suggest a deviation from normality. | | | | | | | | | |

| **Descriptives** | | | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | | **N** | | **Mean** | | **SD** | | **SE** | |
| CNVBefore |  | 992 |  | 0.001 |  | 0.010 |  | 3.329e -4 |  |
| CNVAfter |  | 992 |  | 7.268e -4 |  | 0.012 |  | 3.787e -4 |  |
|  | | | | | | | | | |

CNVBefore - CNVAfter

A close up of a logo

Description automatically generated

## Two groups of non-predicting participants after joystick

Paired Samples T-Test

| **Paired Samples T-Test** | | | | | | | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | |  | |  | | **W** | | **p** | | **Hodges-Lehmann Estimate** | | **Rank-Biserial Correlation** | |
| CNVAfterNopre1 |  | - |  | CNVAfterNopre2 |  | 226275.000 |  | < .001 |  | -0.001 |  | -0.144 |  |
|  | | | | | | | | | | | | | |
| Note.  Wilcoxon signed-rank test. | | | | | | | | | | | | | |

Assumption Checks

| **Test of Normality (Shapiro-Wilk)** | | | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | |  | |  | | **W** | | **p** | |
| CNVAfterNopre1 |  | - |  | CNVAfterNopre2 |  | 0.993 |  | < .001 |  |
|  | | | | | | | | | |
| Note.  Significant results suggest a deviation from normality. | | | | | | | | | |

Descriptives

| **Descriptives** | | | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | | **N** | | **Mean** | | **SD** | | **SE** | |
| CNVAfterNopre1 |  | 1028 |  | -3.245e -4 |  | 0.008 |  | 2.444e -4 |  |
| CNVAfterNopre2 |  | 1028 |  | 0.001 |  | 0.009 |  | 2.899e -4 |  |
|  | | | | | | | | | |

CNVAfterNopre1 - CNVAfterNopre2

A picture containing object, man, light

Description automatically generated