# Perceived Controller Naturalness T1

Mann-Whitney-Test Gruppe 1 – Gruppe 2 gesamt mit Signifikanztest

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| **Deskriptive Statistiken** | | | | | |
|  | N | Mittelwert | Standardabweichung | Minimum | Maximum |
| Naturalness\_T1\_gesamt | 204 | 4,5294 | 1,55811 | 1,00 | 7,00 |
| Gruppierungsvar1 | 204 | 1,5882 | ,49336 | 1,00 | 2,00 |

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| **Ränge** | | | | |
|  | Gruppierungsvar1 | N | Mittlerer Rang | Rangsumme |
| Naturalness\_T1\_gesamt | 1,00 | 84 | 76,63 | 6437,00 |
| 2,00 | 120 | 120,61 | 14473,00 |
| Gesamt | 204 |  |  |

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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| |  |  | | --- | --- | | **Statistik für Testa** | | |  | Naturalness\_T1\_gesamt | | Mann-Whitney-U | 2867,000 | | Wilcoxon-W | 6437,000 | | Z | -5,345 | | Asymptotische Signifikanz (2-seitig) | ,000 | | Exakte Signifikanz (2-seitig) | ,000 | | Exakte Signifikanz (1-seitig) | ,000 | | Punkt-Wahrscheinlichkeit | ,000 | | a. Gruppenvariable: Gruppierungsvar1 | | |

Deskriptive Statistik Gruppe 1 Mittelwert + Gruppe 2 Mittelwert

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| **Deskriptive Statistik** | | | | | |
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|  | | | | | |
|  | N | Minimum | Maximum | Mittelwert | Standardabweichung |
| Gruppe1\_Task1\_gesamt | 84 | 1 | 7 | 3,83 | 1,574 |
| Gruppe2\_Task1\_gesamt | 120 | 1 | 7 | 5,02 | 1,353 |
| Gültige Werte (Listenweise) | 84 |  |  |  |  |

Deskriptive Statistik Gruppe 1 + 2 Mittelwert

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| **Deskriptive Statistik** | | | | | |
|  | N | Minimum | Maximum | Mittelwert | Standardabweichung |
| Naturalness\_T1\_gesamt | 204 | 1 | 7 | 4,53 | 1,558 |
| Gültige Werte (Listenweise) | 204 |  |  |  |  |

Deskriptive Statistik einzelne Fragen Gruppe 1 + 2

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| --- | --- | --- | --- | --- | --- |
| **Deskriptive Statistik** | | | | | |
|  | N | Minimum | Maximum | Mittelwert | Standardabweichung |
| Thegamecontrolsseemednatural | 17 | 2 | 6 | 4,59 | 1,417 |
| Theactionsusedtointeractwiththegameenvironmentweresimi | 17 | 2 | 7 | 4,59 | 1,543 |
| Thegameinterfacewasnotrealistic | 17 | 1 | 6 | 3,71 | 1,359 |
| Thegameenvironmentwasmanipulatedinalifelikemanner | 17 | 1 | 7 | 4,71 | 1,572 |
| TheactionsIperformedwiththecontrollerwerecloselyconnect | 17 | 2 | 7 | 4,76 | 1,562 |
| Theactionsusedtocontrolthegameseemednatural | 17 | 2 | 7 | 5,06 | 1,298 |
| ThewayinwhichIcontrolledmycharacterfeltrealistic | 17 | 2 | 6 | 4,41 | 1,278 |
| Thecontrolleritselfmadethegameseemmorerealistic | 17 | 3 | 7 | 5,76 | 1,147 |
| ItwasmuchmoredifficulttocontrolmycharacterthanIexpect | 17 | 2 | 6 | 3,88 | 1,576 |
| Ifeltlikethecontrollerwasanextensionofmybody | 17 | 2 | 7 | 4,65 | 1,320 |
| WhenItriedtohitthepuckthecontrolsmadeitseemrealisti | 17 | 1 | 6 | 3,59 | 1,661 |
| ThecontrollerallowedmetodoeverythingIneededtotobesu | 17 | 1 | 7 | 4,65 | 1,967 |
| Gültige Werte (Listenweise) | 17 |  |  |  |  |

Deskriptive Statistik einzelne Fragen Gruppe 1

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| --- | --- | --- | --- | --- | --- |
| **Deskriptive Statistik** | | | | | |
|  | N | Minimum | Maximum | Mittelwert | Standardabweichung |
| Frage1 | 7 | 2 | 4 | 3,14 | ,900 |
| Frage2 | 7 | 2 | 6 | 3,43 | 1,512 |
| Frage3 | 7 | 4 | 6 | 4,43 | ,787 |
| Frage4 | 7 | 1 | 7 | 4,00 | 2,160 |
| Frage5 | 7 | 2 | 5 | 3,29 | 1,113 |
| Frage6 | 7 | 2 | 5 | 3,86 | 1,069 |
| Frage7 | 7 | 2 | 6 | 3,71 | 1,496 |
| Frage8 | 7 | 3 | 7 | 5,43 | 1,512 |
| Frage9 | 7 | 4 | 6 | 5,29 | ,951 |
| Frage10 | 7 | 2 | 6 | 4,00 | 1,414 |
| Frage11 | 7 | 1 | 5 | 2,29 | 1,496 |
| Frage12 | 7 | 1 | 6 | 3,14 | 1,864 |
| Gültige Werte (Listenweise) | 7 |  |  |  |  |

Deskriptive Statistik einzelne Fragen Gruppe 2

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| --- | --- | --- | --- | --- | --- |
| **Deskriptive Statistik** | | | | | |
|  | N | Minimum | Maximum | Mittelwert | Standardabweichung |
| Frage1 | 10 | 5 | 6 | 5,60 | ,516 |
| Frage2 | 10 | 4 | 7 | 5,40 | ,966 |
| Frage3 | 10 | 1 | 6 | 3,20 | 1,476 |
| Frage4 | 10 | 4 | 6 | 5,20 | ,789 |
| Frage5 | 10 | 5 | 7 | 5,80 | ,789 |
| Frage6 | 10 | 5 | 7 | 5,90 | ,568 |
| Frage7 | 10 | 4 | 6 | 4,90 | ,876 |
| Frage8 | 10 | 5 | 7 | 6,00 | ,816 |
| Frage9 | 10 | 2 | 5 | 2,90 | 1,101 |
| Frage10 | 10 | 3 | 7 | 5,10 | 1,101 |
| Frage11 | 10 | 2 | 6 | 4,50 | 1,080 |
| Frage12 | 10 | 4 | 7 | 5,70 | 1,252 |
| Gültige Werte (Listenweise) | 10 |  |  |  |  |

Mann-Whitney-Test Gruppe 1 – Gruppe 2 der einzelnen Fragen mit Signifikanztest

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| --- | --- | --- | --- | --- |
| **Ränge** | | | | |
|  | Gruppierungsvar2 | N | Mittlerer Rang | Rangsumme |
| Thegamecontrolsseemednatural | 1,00 | 7 | 4,00 | 28,00 |
| 2,00 | 10 | 12,50 | 125,00 |
| Gesamt | 17 |  |  |
| Theactionsusedtointeractwiththegameenvironmentweresimi | 1,00 | 7 | 5,50 | 38,50 |
| 2,00 | 10 | 11,45 | 114,50 |
| Gesamt | 17 |  |  |
| Thegameinterfacewasnotrealistic | 1,00 | 7 | 11,64 | 81,50 |
| 2,00 | 10 | 7,15 | 71,50 |
| Gesamt | 17 |  |  |
| Thegameenvironmentwasmanipulatedinalifelikemanner | 1,00 | 7 | 7,29 | 51,00 |
| 2,00 | 10 | 10,20 | 102,00 |
| Gesamt | 17 |  |  |
| TheactionsIperformedwiththecontrollerwerecloselyconnect | 1,00 | 7 | 4,29 | 30,00 |
| 2,00 | 10 | 12,30 | 123,00 |
| Gesamt | 17 |  |  |
| Theactionsusedtocontrolthegameseemednatural | 1,00 | 7 | 4,29 | 30,00 |
| 2,00 | 10 | 12,30 | 123,00 |
| Gesamt | 17 |  |  |
| ThewayinwhichIcontrolledmycharacterfeltrealistic | 1,00 | 7 | 6,57 | 46,00 |
| 2,00 | 10 | 10,70 | 107,00 |
| Gesamt | 17 |  |  |
| Thecontrolleritselfmadethegameseemmorerealistic | 1,00 | 7 | 8,07 | 56,50 |
| 2,00 | 10 | 9,65 | 96,50 |
| Gesamt | 17 |  |  |
| ItwasmuchmoredifficulttocontrolmycharacterthanIexpect | 1,00 | 7 | 13,36 | 93,50 |
| 2,00 | 10 | 5,95 | 59,50 |
| Gesamt | 17 |  |  |
| Ifeltlikethecontrollerwasanextensionofmybody | 1,00 | 7 | 6,79 | 47,50 |
| 2,00 | 10 | 10,55 | 105,50 |
| Gesamt | 17 |  |  |
| WhenItriedtohitthepuckthecontrolsmadeitseemrealisti | 1,00 | 7 | 5,29 | 37,00 |
| 2,00 | 10 | 11,60 | 116,00 |
| Gesamt | 17 |  |  |
| ThecontrollerallowedmetodoeverythingIneededtotobesu | 1,00 | 7 | 5,36 | 37,50 |
| 2,00 | 10 | 11,55 | 115,50 |
| Gesamt | 17 |  |  |

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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Statistik für Testa** | | | | | | | | | | | | |
|  | Thegamecontrolsseemednatural | Theactionsusedtointeractwiththegameenvironmentweresimi | Thegameinterfacewasnotrealistic | Thegameenvironmentwasmanipulatedinalifelikemanner | TheactionsIperformedwiththecontrollerwerecloselyconnect | Theactionsusedtocontrolthegameseemednatural | ThewayinwhichIcontrolledmycharacterfeltrealistic | Thecontrolleritselfmadethegameseemmorerealistic | ItwasmuchmoredifficulttocontrolmycharacterthanIexpect | Ifeltlikethecontrollerwasanextensionofmybody | WhenItriedtohitthepuckthecontrolsmadeitseemrealisti | ThecontrollerallowedmetodoeverythingIneededtotobesu |
| Mann-Whitney-U | ,000 | 10,500 | 16,500 | 23,000 | 2,000 | 2,000 | 18,000 | 28,500 | 4,500 | 19,500 | 9,000 | 9,500 |
| Wilcoxon-W | 28,000 | 38,500 | 71,500 | 51,000 | 30,000 | 30,000 | 46,000 | 56,500 | 59,500 | 47,500 | 37,000 | 37,500 |
| Z | -3,528 | -2,446 | -1,962 | -1,204 | -3,290 | -3,368 | -1,719 | -,661 | -3,056 | -1,577 | -2,610 | -2,549 |
| Asymptotische Signifikanz (2-seitig) | ,000 | ,014 | ,050 | ,229 | ,001 | ,001 | ,086 | ,508 | ,002 | ,115 | ,009 | ,011 |
| Exakte Signifikanz [2\*(1-seitige Sig.)] | ,000b | ,014b | ,070b | ,270b | ,000b | ,000b | ,109b | ,536b | ,001b | ,133b | ,010b | ,010b |
| a. Gruppenvariable: Gruppierungsvar2 | | | | | | | | | | | | |
| b. Nicht für Bindungen korrigiert. | | | | | | | | | | | | |

# Perceived Controller Naturalness T2

Mann-Whitney-Test Gruppe 1 – Gruppe 2 gesamt mit Signifikanztest

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| --- | --- | --- | --- | --- | --- |
| **Deskriptive Statistiken** | | | | | |
|  | N | Mittelwert | Standardabweichung | Minimum | Maximum |
| Naturalness\_T2\_gesamt | 204 | 4,37 | 1,657 | 1 | 7 |
| Gruppierungsvar1 | 204 | 1,5882 | ,49336 | 1,00 | 2,00 |

**Mann-Whitney-Test**

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| --- | --- | --- | --- | --- |
| **Ränge** | | | | |
|  | Gruppierungsvar1 | N | Mittlerer Rang | Rangsumme |
| Naturalness\_T2\_gesamt | 1,00 | 84 | 79,61 | 6687,50 |
| 2,00 | 120 | 118,52 | 14222,50 |
| Gesamt | 204 |  |  |

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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| |  |  | | --- | --- | | **Statistik für Testa** | | |  | Naturalness\_T2\_gesamt | | Mann-Whitney-U | 3117,500 | | Wilcoxon-W | 6687,500 | | Z | -4,715 | | Asymptotische Signifikanz (2-seitig) | ,000 | | Exakte Signifikanz (2-seitig) | ,000 | | Exakte Signifikanz (1-seitig) | ,000 | | Punkt-Wahrscheinlichkeit | ,000 | | a. Gruppenvariable: Gruppierungsvar1 | | |

Deskriptive Statistik Gruppe 1 Mittelwert + Gruppe 2 Mittelwert

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| --- | --- | --- | --- | --- | --- |
| **Deskriptive Statistik** | | | | | |
|  | N | Minimum | Maximum | Mittelwert | Standardabweichung |
| Gruppe1\_Task2\_gesamt | 84 | 1,00 | 7,00 | 3,7143 | 1,71858 |
| Gruppe2\_task2\_gesamt | 120 | 1,00 | 7,00 | 4,8333 | 1,45136 |
| Gültige Werte (Listenweise) | 84 |  |  |  |  |

Deskriptive Statistik Gruppe 1 + 2 Mittelwert

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Deskriptive Statistik** | | | | | |
|  | N | Minimum | Maximum | Mittelwert | Standardabweichung |
| Naturalness\_T2\_gesamt | 204 | 1 | 7 | 4,37 | 1,657 |
| Gültige Werte (Listenweise) | 204 |  |  |  |  |

Deskriptive Statistik einzelne Fragen Gruppe 1 + 2

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Deskriptive Statistik** | | | | | |
|  | N | Minimum | Maximum | Mittelwert | Standardabweichung |
| ThegamecontrolsseemednaturalT2 | 17 | 1 | 6 | 4,29 | 1,829 |
| TheactionsusedtointeractwiththegameenvironmentweresimiT2 | 17 | 1 | 6 | 4,41 | 1,698 |
| ThegameinterfacewasnotrealisticT2 | 17 | 1 | 6 | 3,41 | 1,228 |
| ThegameenvironmentwasmanipulatedinalifelikemannerT2 | 17 | 2 | 7 | 4,94 | 1,391 |
| TheactionsIperformedwiththecontrollerwerecloselyconnectT2 | 17 | 1 | 6 | 4,29 | 1,687 |
| TheactionsusedtocontrolthegameseemednaturalT2 | 17 | 2 | 7 | 4,65 | 1,579 |
| ThewayinwhichIcontrolledmycharacterfeltrealisticT2 | 17 | 2 | 6 | 4,06 | 1,478 |
| ThecontrolleritselfmadethegameseemmorerealisticT2 | 17 | 3 | 7 | 5,47 | 1,068 |
| ItwasmuchmoredifficulttocontrolmycharacterthanIexpectT2 | 17 | 2 | 7 | 3,71 | 1,611 |
| IfeltlikethecontrollerwasanextensionofmybodyT2 | 17 | 2 | 7 | 4,88 | 1,536 |
| WhenItriedtohitthepuckthecontrolsmadeitseemrealistiT2 | 17 | 2 | 7 | 4,00 | 1,658 |
| ThecontrollerallowedmetodoeverythingIneededtotobesuT2 | 17 | 1 | 7 | 4,35 | 2,262 |
| Gültige Werte (Listenweise) | 17 |  |  |  |  |

Deskriptive Statistik einzelne Fragen Gruppe 1

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Deskriptive Statistik** | | | | | |
|  | N | Minimum | Maximum | Mittelwert | Standardabweichung |
| ThegamecontrolsseemednaturalT2 | 7 | 1 | 6 | 3,00 | 2,000 |
| TheactionsusedtointeractwiththegameenvironmentweresimiT2 | 7 | 1 | 6 | 3,14 | 1,773 |
| ThegameinterfacewasnotrealisticT2 | 7 | 1 | 5 | 3,43 | 1,272 |
| ThegameenvironmentwasmanipulatedinalifelikemannerT2 | 7 | 2 | 7 | 5,00 | 1,732 |
| TheactionsIperformedwiththecontrollerwerecloselyconnectT2 | 7 | 1 | 6 | 3,00 | 1,826 |
| TheactionsusedtocontrolthegameseemednaturalT2 | 7 | 2 | 5 | 3,14 | 1,069 |
| ThewayinwhichIcontrolledmycharacterfeltrealisticT2 | 7 | 2 | 4 | 3,29 | ,951 |
| ThecontrolleritselfmadethegameseemmorerealisticT2 | 7 | 3 | 6 | 5,00 | 1,155 |
| ItwasmuchmoredifficulttocontrolmycharacterthanIexpectT2 | 7 | 2 | 6 | 4,29 | 1,496 |
| IfeltlikethecontrollerwasanextensionofmybodyT2 | 7 | 3 | 7 | 5,00 | 1,633 |
| WhenItriedtohitthepuckthecontrolsmadeitseemrealistiT2 | 7 | 2 | 7 | 3,29 | 1,890 |
| ThecontrollerallowedmetodoeverythingIneededtotobesuT2 | 7 | 1 | 7 | 3,00 | 2,160 |
| Gültige Werte (Listenweise) | 7 |  |  |  |  |

Deskriptive Statistik einzelne Fragen Gruppe 2

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Deskriptive Statistik** | | | | | |
|  | N | Minimum | Maximum | Mittelwert | Standardabweichung |
| Frage1 | 10 | 3 | 6 | 5,20 | 1,033 |
| Frage2 | 10 | 3 | 6 | 5,30 | ,949 |
| Frage3 | 10 | 2 | 6 | 3,40 | 1,265 |
| Frage4 | 10 | 3 | 6 | 4,90 | 1,197 |
| Frage5 | 10 | 4 | 6 | 5,20 | ,789 |
| Frage6 | 10 | 4 | 7 | 5,70 | ,823 |
| Frage7 | 10 | 2 | 6 | 4,60 | 1,578 |
| Frage8 | 10 | 4 | 7 | 5,80 | ,919 |
| Frage9 | 10 | 2 | 7 | 3,30 | 1,636 |
| Frage10 | 10 | 2 | 7 | 4,80 | 1,549 |
| Frage11 | 10 | 2 | 6 | 4,50 | 1,354 |
| Frage12 | 10 | 1 | 7 | 5,30 | 1,889 |
| Gültige Werte (Listenweise) | 10 |  |  |  |  |

Mann-Whitney-Test Gruppe 1 – Gruppe 2 der einzelnen Fragen mit Signifikanztest

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| --- | --- | --- | --- | --- |
| **Ränge** | | | | |
|  | Gruppierungsvar2 | N | Mittlerer Rang | Rangsumme |
| ThegamecontrolsseemednaturalT2 | 1,00 | 7 | 5,79 | 40,50 |
| 2,00 | 10 | 11,25 | 112,50 |
| Gesamt | 17 |  |  |
| TheactionsusedtointeractwiththegameenvironmentweresimiT2 | 1,00 | 7 | 5,64 | 39,50 |
| 2,00 | 10 | 11,35 | 113,50 |
| Gesamt | 17 |  |  |
| ThegameinterfacewasnotrealisticT2 | 1,00 | 7 | 9,43 | 66,00 |
| 2,00 | 10 | 8,70 | 87,00 |
| Gesamt | 17 |  |  |
| ThegameenvironmentwasmanipulatedinalifelikemannerT2 | 1,00 | 7 | 9,14 | 64,00 |
| 2,00 | 10 | 8,90 | 89,00 |
| Gesamt | 17 |  |  |
| TheactionsIperformedwiththecontrollerwerecloselyconnectT2 | 1,00 | 7 | 5,71 | 40,00 |
| 2,00 | 10 | 11,30 | 113,00 |
| Gesamt | 17 |  |  |
| TheactionsusedtocontrolthegameseemednaturalT2 | 1,00 | 7 | 4,36 | 30,50 |
| 2,00 | 10 | 12,25 | 122,50 |
| Gesamt | 17 |  |  |
| ThewayinwhichIcontrolledmycharacterfeltrealisticT2 | 1,00 | 7 | 6,29 | 44,00 |
| 2,00 | 10 | 10,90 | 109,00 |
| Gesamt | 17 |  |  |
| ThecontrolleritselfmadethegameseemmorerealisticT2 | 1,00 | 7 | 7,00 | 49,00 |
| 2,00 | 10 | 10,40 | 104,00 |
| Gesamt | 17 |  |  |
| ItwasmuchmoredifficulttocontrolmycharacterthanIexpectT2 | 1,00 | 7 | 11,00 | 77,00 |
| 2,00 | 10 | 7,60 | 76,00 |
| Gesamt | 17 |  |  |
| IfeltlikethecontrollerwasanextensionofmybodyT2 | 1,00 | 7 | 9,29 | 65,00 |
| 2,00 | 10 | 8,80 | 88,00 |
| Gesamt | 17 |  |  |
| WhenItriedtohitthepuckthecontrolsmadeitseemrealistiT2 | 1,00 | 7 | 6,57 | 46,00 |
| 2,00 | 10 | 10,70 | 107,00 |
| Gesamt | 17 |  |  |
| ThecontrollerallowedmetodoeverythingIneededtotobesuT2 | 1,00 | 7 | 6,36 | 44,50 |
| 2,00 | 10 | 10,85 | 108,50 |
| Gesamt | 17 |  |  |

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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Statistik für Testa** | | | | | | | | | | | | |
|  | ThegamecontrolsseemednaturalT2 | TheactionsusedtointeractwiththegameenvironmentweresimiT2 | ThegameinterfacewasnotrealisticT2 | ThegameenvironmentwasmanipulatedinalifelikemannerT2 | TheactionsIperformedwiththecontrollerwerecloselyconnectT2 | TheactionsusedtocontrolthegameseemednaturalT2 | ThewayinwhichIcontrolledmycharacterfeltrealisticT2 | ThecontrolleritselfmadethegameseemmorerealisticT2 | ItwasmuchmoredifficulttocontrolmycharacterthanIexpectT2 | IfeltlikethecontrollerwasanextensionofmybodyT2 | WhenItriedtohitthepuckthecontrolsmadeitseemrealistiT2 | ThecontrollerallowedmetodoeverythingIneededtotobesuT2 |
| Mann-Whitney-U | 12,500 | 11,500 | 32,000 | 34,000 | 12,000 | 2,500 | 16,000 | 21,000 | 21,000 | 33,000 | 18,000 | 16,500 |
| Wilcoxon-W | 40,500 | 39,500 | 87,000 | 89,000 | 40,000 | 30,500 | 44,000 | 49,000 | 76,000 | 88,000 | 46,000 | 44,500 |
| Z | -2,263 | -2,383 | -,306 | -,101 | -2,309 | -3,263 | -1,921 | -1,454 | -1,397 | -,199 | -1,705 | -1,836 |
| Asymptotische Signifikanz (2-seitig) | ,024 | ,017 | ,759 | ,920 | ,021 | ,001 | ,055 | ,146 | ,162 | ,842 | ,088 | ,066 |
| Exakte Signifikanz [2\*(1-seitige Sig.)] | ,025b | ,019b | ,813b | ,962b | ,025b | ,000b | ,070b | ,193b | ,193b | ,887b | ,109b | ,070b |
| a. Gruppenvariable: Gruppierungsvar2 | | | | | | | | | | | | |
| b. Nicht für Bindungen korrigiert. | | | | | | | | | | | | |

# Perceived Controller Naturalness Task 1 + 2

Naturalness Task 1 gegen Naturalness Task 2

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| --- | --- | --- | --- | --- |
| **Ränge** | | | | |
|  | | N | Mittlerer Rang | Rangsumme |
| Naturalness\_T2\_gesamt - Naturalness\_T1\_gesamt | Negative Ränge | 69a | 62,51 | 4313,00 |
| Positive Ränge | 51b | 57,78 | 2947,00 |
| Bindungen | 84c |  |  |
| Gesamt | 204 |  |  |
| a. Naturalness\_T2\_gesamt < Naturalness\_T1\_gesamt | | | | |
| b. Naturalness\_T2\_gesamt > Naturalness\_T1\_gesamt | | | | |
| c. Naturalness\_T2\_gesamt = Naturalness\_T1\_gesamt | | | | |

|  |  |
| --- | --- |
| **Statistik für Testa** | |
|  | Naturalness\_T2\_gesamt - Naturalness\_T1\_gesamt |
| Z | -1,843b |
| Asymptotische Signifikanz (2-seitig) | ,065 |
| Exakte Signifikanz (2-seitig) | ,065 |
| Exakte Signifikanz (1-seitig) | ,033 |
| Punkt-Wahrscheinlichkeit | ,000 |
| a. Wilcoxon-Test | |
| b. Basiert auf positiven Rängen. | |

Naturalness Gruppe 1 Task 1 gegen Naturalness Gruppe 1 Task 2

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Naturalness Gruppe 2 Task 1 gegen Naturalness Gruppe 2 Task 2

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Ränge** | | | | |
|  | | N | Mittlerer Rang | Rangsumme |
| Gruppe1\_Task2\_gesamt - Gruppe1\_Task1\_gesamt | Negative Ränge | 28a | 29,86 | 836,00 |
| Positive Ränge | 27b | 26,07 | 704,00 |
| Bindungen | 29c |  |  |
| Gesamt | 84 |  |  |
| Gruppe2\_task2\_gesamt - Gruppe2\_Task1\_gesamt | Negative Ränge | 38d | 34,41 | 1307,50 |
| Positive Ränge | 26e | 29,71 | 772,50 |
| Bindungen | 56f |  |  |
| Gesamt | 120 |  |  |
| a. Gruppe1\_Task2\_gesamt < Gruppe1\_Task1\_gesamt | | | | |
| b. Gruppe1\_Task2\_gesamt > Gruppe1\_Task1\_gesamt | | | | |
| c. Gruppe1\_Task2\_gesamt = Gruppe1\_Task1\_gesamt | | | | |
| d. Gruppe2\_task2\_gesamt < Gruppe2\_Task1\_gesamt | | | | |
| e. Gruppe2\_task2\_gesamt > Gruppe2\_Task1\_gesamt | | | | |
| f. Gruppe2\_task2\_gesamt = Gruppe2\_Task1\_gesamt | | | | |

|  |  |  |
| --- | --- | --- |
| **Statistik für Testa** | | |
|  | Gruppe1\_Task2\_gesamt - Gruppe1\_Task1\_gesamt | Gruppe2\_task2\_gesamt - Gruppe2\_Task1\_gesamt |
| Z | -,568b | -1,861b |
| Asymptotische Signifikanz (2-seitig) | ,570 | ,063 |
| Exakte Signifikanz (2-seitig) | ,574 | ,063 |
| Exakte Signifikanz (1-seitig) | ,287 | ,032 |
| Punkt-Wahrscheinlichkeit | ,002 | ,000 |
| a. Wilcoxon-Test | | |
| b. Basiert auf positiven Rängen. | | |