Table 1. Descriptive Participant Data

|  |  |  |
| --- | --- | --- |
| **Factor** | **Mean** | **SD** |
| AoA | 11.90 | 4.07 |
| Current age | 22.74 | 3.43 |
| Proficiency | 5.26 | 0.94 |

|  |  |  |
| --- | --- | --- |
| **Spanish** | **English** | **French** |
| tiro | tipping | tir |
| tema | teller | terre |
| talla | tacky | tasse |
| quiso | penny | quitte |
| queja | pass | quelle |
| cama | parrot | pile |
| piso | kitten | pere |
| pena | kennel | patte |

Table 2. Word List

|  |  |  |  |
| --- | --- | --- | --- |
| **Language** | **Segment** | **Relative VOT** | **SD** |
| English | k | 0.160 | 0.055 |
| French | k | 0.148 | 0.055 |
| Spanish | k | 0.086 | 0.034 |

Table 3. Descriptive Relative VOT for /k/ per language

Table 4. Descriptive Relative VOT for /t/ per language

|  |  |  |  |
| --- | --- | --- | --- |
| **Language** | **Segment** | **Relative VOT** | **SD** |
| English | t | 0.134 | 0.046 |
| French | t | 0.078 | 0.053 |
| Spanish | t | 0.046 | 0.021 |

Table 5. Descriptive Relative VOT for /p/ per language

|  |  |  |  |
| --- | --- | --- | --- |
| **Language** | **Segment** | **Relative VOT** | **SD** |
| English | p | 0.109 | 0.058 |
| French | p | 0.063 | 0.042 |
| Spanish | p | 0.041 | 0.022 |

|  |  |  |
| --- | --- | --- |
| **Language** | **Relative VOT** | **SD** |
| English | 0.134 | 0.057 |
| French | 0.090 | 0.060 |
| Spanish | 0.058 | 0.033 |

Table 6: Descriptive pooled Relative VOT per language

Table 7: Descriptive pooled Relative VOT per language in monolinguals

|  |  |  |
| --- | --- | --- |
| **language** | **mean** | **sd** |
| french | 0.070 | 0.044 |
| spanish | 0.059 | 0.032 |

Table 8. Linear Regression of the full data set

|  |  |  |  |
| --- | --- | --- | --- |
|  | **Relative VOT z** | | |
| *Predictors* | *Estimates* | *CI* | *p* |
| (Intercept) | 1.21 | 0.92 – 1.51 | **<0.001** |
| language [french] | -0.66 | -0.96 – -0.36 | **<0.001** |
| language [spanish] | -1.27 | -1.56 – -0.97 | **<0.001** |
| text [p] | -0.95 | -1.25 –  -0.65 | **<0.001** |
| text [t] | -0.69 | -0.99 – -0.39 | **<0.001** |

Table 9. L2 subset Descriptive pooled Relative VOT per language

|  |  |  |
| --- | --- | --- |
| **Language** | **Relative VOT** | **SD** |
| English | 0.130 | 0.056 |
| French | 0.106 | 0.064 |
| Spanish | 0.059 | 0.034 |

|  |  |  |  |
| --- | --- | --- | --- |
|  | **Relative VOT z** | | |
| *Predictors* | *Estimates* | *CI* | *p* |
| (Intercept) | 1.14 | 0.81 – 1.48 | **<0.001** |
| language [french] | -0.34 | -0.67 – -0.02 | **0.038** |
| language [spanish] | -1.19 | -1.50 – -0.87 | **<0.001** |
| text [p] | -0.96 | -1.28 – -0.63 | **<0.001** |
| text [t] | -0.68 | -1.01 – -0.36 | **<0.001** |

Table 10. Linear Regression of the L2 data subset

Table 11: L1 subset Descriptive pooled Relative VOT per language

|  |  |  |
| --- | --- | --- |
| **Language** | **Relative VOT** | **SD** |
| English | 0.140 | 0.058 |
| French | 0.066 | 0.046 |
| Spanish | 0.057 | 0.032 |

|  |  |  |  |
| --- | --- | --- | --- |
|  | **Relative VOT z** | | |
| *Predictors* | *Estimates* | *CI* | *p* |
| (Intercept) | 1.31 | 0.96 – 1.66 | **<0.001** |
| language [french] | -1.13 | -1.43 – -0.82 | **<0.001** |
| language [spanish] | -1.39 | -1.71 – -1.07 | **<0.001** |
| text [p] | -0.94 | -1.23 – -0.65 | **<0.001** |
| text [t] | -0.70 | -0.99 – -0.41 | **<0.001** |

Table 12: Linear Regression of the L1 data subset

Table 13: Post-hoc power analyses of the mean differences in relative VOT per subset

|  |  |  |
| --- | --- | --- |
| **power** | **subset** | **pairing** |
| 100 | L1 subset | English-Spanish |
| 100 | L2 subset | English-Spanish |
| 100 | Full subset | English-Spanish |
| 18 | L1 subset | French-Spanish |
| 100 | L2 subset | French-Spanish |
| 80 | Full subset | French-Spanish |
| 100 | L1 subset | French-English |
| 45 | L2 subset | French-English |
| 91 | Full subset | French-English |