S1. Characteristics of the stimuli

Table 1. *Lists and comparison of target types (t-test for numerical variables, Wilcoxon test for ordinal variables): \*: p < 0.05, \*\*: p < 0.01, \*\*\* : p < .001.*

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|  | **Audio** | **Visual** | **Comparison** |
|  | *M* | *SD* | *M* | *SD* |  |
| ***Sentence criteria*** |
| Target verb duration *(ms)* | 509 | 123 | 503 | 115 | *(ns)* |
| ***Gesture criteria*** |
| Viewpoint *(%)* | 57 character viewpoint (32 items)43 observer viewpoint (24 items) | 57 character viewpoint(32 items)43 observer viewpoint (24 items) |  |
| Stroke type *(%)* | 73 single (41 items)27 repeated (15 items) | 75 single (42 items)25 repeated (14 items) |  |
| Stroke duration including post-stroke holds *(ms)* | 589 | 125 | 561 | 118 | *(ns)* |
| Place of articulation *(%)* | 55 center (31 items)2 periphery (1 item)43 periphery-center (24 items) | 50 center (28 items)4 periphery (2 items)46 periphery-center (26 items) |  |
| Trajectory *(%)* | 79 simple (44 items)21 complex (12 items) | 86 simple (48 items)14 complex (8 items) |  |
| ***Video criteria*** |
| Naturalness  |  3.11 |  1.46 | 3.20 | 1.40 | *(ns)* |

Table 2. *Gesture conditions and comparison of gesture conditions (t-test for numerical variables): \*: p < 0.05, \*\*: p < 0.01, \*\*\* : p < .001.*

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|  | **Congruent gestures** | **Incongruent gestures** |  | **Comparison** |
|  | *M* | *SD* | *M* | *SD* |  |  |  |
| ***Sentence criteria*** |  |  |  |  |  |  |
| Target verb duration *(ms)* | 510 | 123 | 502 | 116 |  |  | *(ns)* |
| ***Gesture criteria*** |  |  |  |  |  |  |  |
| Viewpoint *(%)* | 57 character viewpoint (16 items)43 observer viewpoint (12 items) | 57 character viewpoint (32 items)43 observer viewpoint (24 items) |  |  |
| Stroke type *(%)* | 75 single (21 items) 25 repeated (7 items) | 73 single (41 items) 27 repeated (15 items) |  |  |
| Stroke duration including post-stroke holds *(ms)* | 561 | 119 | 589 | 125 |  |  | *(ns)* |
| Place of articulation *(%)* | 50 center (14 items)4 periphery (1 item)46 periphery-center (13 items) | 55 center (31 items)2 periphery (1 item)43 periphery-center (24 items) |  |
| Trajectory *(%)* | 86 simple (24 items)14 complex (4 items) | 79 simple (44 items)21 complex (12 items) |  |  |  |
| ***Video criteria*** |
| Naturalness  | 4.46 |  0.59 |  1.85 | 0.54 |  | *\*\*\** |

Table 3. *Priming relationship and comparison of picture primes (t-test for numerical variables): \*: p < 0.05, \*\*: p < 0.01, \*\*\* : p < .001.*

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|  | **Unrelated** | **Related** |  |  **Comparison** |
|  | *M* | *SD* | *M* | *SD* |  |  |  |
| ***Picture criteria*** |  |  |  |  |  |  |
| Concept agreement (%) | 91 | 10 | 91 | 10 |  |  | *(ns)* |
| Concept familiarity | 3.8 | 0.6 | 3.8 | 0.6 |  |  | *(ns)* |
| Visual complexity | 2.9 | 0.4 | 2.9 | 0.4 |  |  | *(ns)* |