|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Model | Fixed effects | Random effects | df | BIC1 |
| 1 | Perception time | - | 3 | 323730.0 |
| 2 | Perception time | Subject | 4 | 323462.4 |
| 3 | Perception time | Subject + Perception time | Subject | 6 | did not converge |
| Best fit | Perception time | Subject + Trial | 5 | 322911.5 |
| 5 | Perception time | Subject + Perception time | Subject + Trial + Perception time | Trial | 9 | did not converge |

**Supplementary File 1a.** Bayesian Information Criterion (BIC) for linear mixed-effects model explaining imagery reactivation time with perception model time.

1. BIC is given in a smaller is better measure

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Model | Fixed effects | Random effects | df | BIC1 |
| 1 | Perception time | - | 3 | 326310.8 |
| 2 | Perception time | Subject | 4 | 326042.3 |
| 3 | Perception time | Subject + Perception time | Subject | 6 | did not converge |
| Best fit | Perception time | Subject + Trial | 5 | 325415.1 |
| 5 | Perception time | Subject + Perception time | Subject + Trial + Perception time | Trial | 9 | did not converge |

**Supplementary File 1b.** BIC for linear mixed-effects model explaining imagery reactivation time with perception model time after permuting the stimulus-class labels.

1. BIC is given in a smaller is better measure

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Model | Fixed effects | Random effects | df | BIC1 |
| 1 | Perception time | - | 3 | -724.5 |
| 2 | Perception time | Subject | 4 | -935.9 |
| Best fit | Perception time | Subject + Perception time | Subject | 6 | -956.7 |

**Supplementary File 1c.** BIC for linear mixed-effects model explaining imagery reactivation time averaged over trials within subject with perception model time.

1. BIC is given in a smaller is better measure