

Pilot Study (Supplementary material 1): Mean score of valence judgments for the stimuli used in Experiment 1 and 2 (*Pilot_Verbs.xlsx*).

Column (A) indicates participant's number, whereas next columns indicate mean valence scores for:

- (B) positive valence verbs in future tense;
- (C) positive valence verbs in past tense;
- (D) negative valence verbs in future tense;
- (E) negative valence verbs in past tense;
- (F) future tense verbs;
- (G) past tense verbs;
- (H) positive valence verbs;
- (I) negative valence verbs.

Mean data files for Experiment 1 Movement Times (control task) for Group 1 frontal axis (*Expt1_MT_G1.xlsx*) and Group 2 sagittal axis (*Expt1_MT_G2.xlsx*)

Column (A) indicates participant's number, whereas columns (B) and (C) indicate movement direction.

Mean data file for Experiment 2 Movement Times (control task): *Expt2_MT.xlsx*

Column (A) indicates participant's number, whereas columns (B) to (E) indicate movement direction.

Mean data files for Verb Reading Times (ReadTs) in Experiment 1 (*Expt1_ReadTimes.xlsx*) and Experiment 2 (*Expt2_ReadTimes.xlsx*)

Columns A and B provide information about participants: (A) participant's number; and (B) participant's group.

Next columns refer to mean performance in different conditions:

- (C) future tense and negative valence verbs; (D) future-positive verbs;
- (E) past-negative verbs; (F) past-positive verbs;
- (G) future tense verbs ; (H) past tense verbs
- (I) negative valence verbs ; (J) positive valence verbs
- (K) compatible S-R mapping trials (Expt1) or compatible TEVA stimuli (future-positive and past-negative verbs, in Expt2)
- (L) incompatible S-R mapping trials (Expt1) or compatible TEVA stimuli (future-negative and past-positive verbs, in Expt2)

Mean data files for Processing Times (PTs) (*Expt1_PT.xlsx* and *Expt2_PT.xlsx*) and **Proportion of errors** (*Expt1_PT_Prop_Error.xlsx* and *Expt2_PT_Prop_Error.xlsx*) in Experiment 1 (Expt1) and 2 (Expt2) when performing valence or temporal judgments

Columns A and B provide information about participants: (A) participant's number; (B) participant's group.

Next columns refer to mean performance in different conditions:

- (C) future tense and negative valence verbs; (D) future-positive verbs;
- (E) past-negative verbs; (F) past-positive verbs;
- (G) future tense verbs; (H) past tense verbs
- (I) negative valence verbs; (J) positive valence verbs;
- (K) compatible S-R mapping trials (Expt1) or compatible TEVA stimuli (Expt2, future-positive and past-negative verbs);
- (L) incompatible S-R mapping trials (Expt1) or incompatible TEVA stimuli (Expt2, future-negative and past-positive verbs);

Valence judgments:

- (M) congruent *spatial metaphor mapping* instructions and compatible S-R mapping trials (Expt1) or TEVA (Expt2);
- (N) congruent instructions and incompatible S-R mapping trials or TEVA;
- (O) incongruent instructions and compatible S-R mapping trials or TEVA;
- (P) incongruent instructions and incompatible S-R mapping trials or TEVA;

Temporal judgments:

- (Q) congruent *spatial metaphor mapping* instructions and compatible S-R mapping trials (Expt1) or TEVA (Expt2);
- (R) congruent instructions and incompatible S-R mapping trials or TEVA;
- (S) incongruent instructions and compatible S-R mapping trials or TEVA;
- (T) incongruent instructions and incompatible S-R mapping trials or TEVA;

- (U) mean performance for valence judgments;
- (V) mean performance for temporal judgments;

- (W) mean performance for congruent *spatial metaphor mapping* trials;
- (X) mean performance for incongruent *spatial metaphor mapping* trials.