This archive contains data and analysis instructions from

Project ES/K006142/1

**Images in the mind: The control of visual object selection by attentional templates**

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| **Study 1: Representations of target locations in working memory**Grubert, A., & Eimer, M. (2015). Does visual working memory represent the predicted locations of future target objects? An event-related brain potential study. Brain Research, 1626, 258-266. |
| **Study Description** |  **File name** | **File Description**  |
| Change detection task (two forced choice).Behavioural and electrophysiological data sets of one experiment with 12 participants. | TargetLocationsInWM\_BehavData.xlsx | XLS file with behavioural data |
| TargetLocationsInWM\_EEGData.zip | ZIP folder with raw EEG data |
| TargetLocationsInWM\_VariableDescription.docx | Word file with variable descriptions (behavioural variables, EEG file naming, EEG marker codes) |
| TargetLocationsInWM\_Manuscript.docx | Word file of study manuscript containing methodological details and analysis instructions |
| **Study 2: Additive N2pc**Eimer, M., & Grubert, A. (2014). The gradual emergence of spatially selective target processing in visual search: From feature-specific to object-based attentional control. Journal of Experimental Psychology: Human Perception and Performance, 40, 1819-1831. |
| **Study Description** |  **File name** | **File Description**  |
| Visual search with target present/absent task (two forced choice).Behavioural and electrophysiological data sets of two experiments, each with 16 participants (between-subject). | AdditiveN2pc\_BehavData.xlsx | XLS file with behavioural data of Experiment 1 and 2 |
| AdditiveN2pc\_EEGData.zip | ZIP folder with raw EEG data of Experiment 1 and 2 |
| AdditiveN2pc\_VariableDescription.docx | Word file with variable descriptions (behavioural variables, EEG file naming, EEG marker codes) |
| AdditiveN2pc\_Manuscript.docx | Word file of study manuscript containing methodological details and analysis instructions |
| **Study 3: Attention shift**Grubert, A., & Eimer, M. (2016). The speed of serial attention shifts in visual search: Evidence from the N2pc component. Journal of Cognitive Neuroscience, 28, 319-332.  |
| **Study Description** |  **File name** | **File Description**  |
| Identification of two simultaneously presented targets (Go/Nogo task).Behavioural and electrophysiological data sets of three experiments, Experiment 1 and 2 with 20 participants, Experiment 3 with 12 participants (between-subjects). | AttentionShift\_BehavData.xlsx | XLS file with behavioural data of Experiment 1-3 |
| AttentionShift\_EEGData.zip | ZIP folder with raw EEG data of Experiment 1-3 |
| AttentionShift\_VariableDescription.docx | Word file with variable descriptions (behavioural variables, EEG file naming, EEG marker codes) |
| AttentionShift\_Manuscript.docx | Word file of study manuscript containing methodological details and analysis instructions |
| **Study 4: Rapid parallel selection of multiple colour defined targets**Eimer, M., & Grubert, A. (2014). Spatial attention can be allocated rapidly and in parallel to new visual objects. Current Biology, 24, 193-198. |
| **Study Description** |  **File name** | **File Description**  |
| Identification of two consecutively presented colour-defined targets (two forced choice).Behavioural and electrophysiological data sets of two experiments, each with 12 participants (within-subjects). | RapidParallelSelection\_BehavData.xlsx | XLS file with behavioural data of Experiment 1 and 2 |
| RapidParallelSelection\_EEGData.zip | ZIP folder with raw EEG data of Experiment 1 and 2 |
| RapidParallelSelection\_VariableDescription.docx | Word file with variable descriptions (behavioural variables, EEG file naming, EEG marker codes) |
| RapidParallelSelection\_Manuscript.docx | Word file of study manuscript containing methodological details and analysis instructions |
| **Study 5: Attention and awareness**Eimer, M., & Grubert, A. (2015). A dissociation between selective attention and conscious awareness in the representation of temporal order information. Consciousness and Cognition, 35, 274-281. |
| **Study Description** |  **File name** | **File Description**  |
| Temporal order judgement of two consecutively presented targets.Behavioural data sets of one experiment with 12 participants (no EEG measured in this experiment). | AttentionAwareness\_BehavData.xlsx | XLS file with behavioural data |
| AttentionAwareness\_VariableDescription.docx | Word file with variable descriptions (behavioural variables) |
| AttentionAwareness\_Manuscript.docx | Word file of study manuscript containing methodological details and analysis instructions |
| **Study 6: Rapid parallel selection of multiple shape and category defined targets**Jenkins, M., Grubert, A., & Eimer, M. (in press). Rapid parallel attentional selection can be controlled by shape and alphanumerical category. Journal of Cognitive Neuroscience.  |
| **Study Description** |  **File name** | **File Description**  |
| Identification of two consecutively presented targets (two forced choice) defined by shape (Experiment 1) and alphanumerical category (Experiment 2).Behavioural and electrophysiological data sets of two experiments, each with 12 participants (between-subjects). | RapidParallelSelection2\_BehavData.xlsx | XLS file with behavioural data of Experiment 1 and 2 |
| RapidParallelSelection2\_EEGData.zip | ZIP folder with raw EEG data of Experiment 1 and 2 |
| RapidParallelSelection2\_VariableDescription.docx | Word file with variable descriptions (behavioural variables, EEG file naming, EEG marker codes) |
| RapidParallelSelection2\_Manuscript.docx | Word file of study manuscript containing methodological details and analysis instructions |
| **Generic** |
|  |  **File name** | **File Description**  |
|  | ConsentForm.doc | Consent form for participants |