**Behavioural variables (refers to trial types)**

**SOA10:** 10 milliseconds stimulus onset asynchrony

**SOA20:** 20 milliseconds stimulus onset asynchrony

**SOA50:** 50 milliseconds stimulus onset asynchrony

**SOA100:** 100 milliseconds stimulus onset asynchrony

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**EEG file naming**

*Experiment 1 (horizontal stimulus arrangement)*

e.g., **AttShiftDyn\_Hori10\_blue\_3**

**AttShiftDyn** (experiment name) \_ **Hori10** (stimulus setup [horizontal setup, 10 ms stimulus onset asynchrony]) \_ **blue** (target colour [red, green, blue, yellow]) \_ **3** (participant number)

e.g., **AttShiftDyn\_Hori20\_red\_1**

**AttShiftDyn** (experiment name) \_ **Hori20** (stimulus setup [horizontal setup, 20 ms stimulus onset asynchrony]) \_ **red** (target colour [red, green, blue, yellow]) \_ **1** (participant number)

e.g., **AttShiftDyn\_HoriShort\_blue\_5**

**AttShiftDyn** (experiment name) \_ **HoriShort** (stimulus setup [horizontal setup, 50 ms stimulus onset asynchrony]) \_ **blue** (target colour [red, green, blue, yellow]) \_ **5** (participant number)

e.g., **AttShiftDyn\_HoriLong\_blue\_14**

**AttShiftDyn** (experiment name) \_ **HoriLong** (stimulus setup [horizontal setup, 100 ms stimulus onset asynchrony]) \_ **blue** (target colour [red, green, blue, yellow]) \_ **14** (participant number)

*Experiment 2 (vertical stimulus arrangement)*

e.g., **AttShiftDyn\_Verti10\_blue\_3**

**AttShiftDyn** (experiment name) \_ **Verti10** (stimulus setup [vertical setup, 10 ms stimulus onset asynchrony]) \_ **blue** (target colour [red, green, blue, yellow]) \_ **3** (participant number)

e.g., **AttShiftDyn\_VertiLong\_blue\_14**

**AttShiftDyn** (experiment name) \_ **VertiLong** (stimulus setup [vertical setup, 100 ms stimulus onset asynchrony]) \_ **blue** (target colour [red, green, blue, yellow]) \_ **14** (participant number)

For participants 6 and 14 recording was paused, hence the multiple data files.

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**EEG marker codes**

*Stimulus marker*

**1:** Target-colour digit at left position in the first display

**2:** Target-colour digit at right position in the first display

**3:** Target-colour letter at left position in the first display

**4:** Target-colour letter at right position in the first display

**5:** Target-colour digit at top position in the first display

**6:** Target-colour digit at bottom position in the first display

**7:** Target-colour letter at top position in the first display

**8:** Target-colour letter at bottom position in the first display

**11:** Target-colour digit at left position in the second display

**12:** Target-colour digit at right position in the second display

**13:** Target-colour letter at left position in the second display

**14:** Target-colour letter at right position in the second display

**15:** Target-colour digit at top position in the second display

**16:** Target-colour digit at bottom position in the second display

**17:** Target-colour letter at top position in the second display

**18:** Target-colour letter at bottom position in the second display

*Response marker*

**111:** Correct same category response with left hand

**121:** Correct different category response with left hand

**112:** Correct same category response with right hand

**122:** Correct different category response with right hand

**211:** Error same category response with left hand

**221:** Error different category response with left hand

**212:** Error same category response with right hand

**222:** Error different category response with right hand

**250:** No response given