**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 (shape defined targets)*

e.g., **RPShapesNew\_1\_T\_10**

**RPShapesNew** (experiment name) \_ **1** (participant number) \_ **T** (target shape [T=triangle, S=square, C=circle]) \_ **10** (stimulus onset asynchrony [10 ms, 20 ms , 50 ms, 100 ms])

*Experiment 2 (category defined targets)*

e.g., **RPCategory\_2\_D\_20**

**RPCategory** (experiment name) \_ **2** (participant number) \_ **D** (target category [D=digit, L=letter]) \_ **20** (stimulus onset asynchrony [10 ms, 20 ms , 50 ms, 100 ms])

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**EEG marker codes**

*Stimulus marker*

**1:** Digit target at left position in the first display

**2:** Digit target at right position in the first display

**3:** Letter target at left position in the first display

**4:** Letter target at right position in the first display

**5:** Digit target at top position in the first display

**6:** Digit target at bottom position in the first display

**7:** Letter target at top position in the first display

**8:** Letter target at bottom position in the first display

**11:** Digit target at left position in the second display

**12:** Digit target at right position in the second display

**13:** Letter target at left position in the second display

**14:** Letter target at right position in the second display

**15:** Digit target at top position in the second display

**16:** Digit target at bottom position in the second display

**17:** Letter target at top position in the second display

**18:** Letter target 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

**200:** Error response

**255:** No response given