Working Memory and Time Perception of Visual Sequences

Experiment 2

In this experiment, your task is **to 1. Judge and replicate the time duration** **and 2. Identify the location and color** of visual stimulus (i.e., a grey circle) that will be presented in the center of the computer screen.

**Procedure of one trial**:

First, we will present you with a fixation cross in the middle of the monitor. Please fix at that cross. The target circle appears right after the cross for a period of time. Please f**eel the presented time duration** of the target and be mindful of the presentation time of the stimulus. You need to reproduce this time duration in later steps.

**After that**, a fixation cross will reappear before the presentation of a display that contains a set of squares (1, 3, or 5) of different colors. Try to remember the color and location of the squares as much as possible.

After that, you will see ‘Reproduction’ in the center of the screen to remind you of the duration replication task. **You need to press the arrow button as long as you think the previous stimulus was presented**. While you press the button, you will see the circle. After answering the question, you will get a **feedback** on how good you have reproduced the duration of the stimulus. For the feedback, you will see 5 dots in the middle of the screen. If the dot on the **left** lights up, you pressed the button too short – if the dot on the **right** lights up, you pressed the button too long. If the dot in the middle lights up, you reproduced the duration of the stimulus perfectly.

After the feedback a square of certain color and location will appear on the screen. Press the **leftward key** if you think this square was presented in previous square display (the same color at the same location); while press the **rightward key** if you think it is different (**INCORRECT**).