

### Instructions verbatim for the color selection task (Experiment 2)

At the beginning of each trial you will see a black cross in the center of the screen with a small dot in the middle. When you are ready to begin a trial, use the mouse to move the cursor to the center of the cross so it covers the small dot and click the mouse. The cursor will be a small black circle. At the start of each trial it can appear anywhere on the screen.

When you click the cross, five squares will appear on the screen. The square in the center of the screen will be the target for the trial. It will be surrounded by four test squares.

***Your task is to click on the test square that is closest to the target square in color.***

When you click on the chosen test square the trial will end and the cross will appear at the center of the screen again. When you are ready to begin the next trial, use the mouse to move the cursor to the center of the cross so it covers the dot and click the mouse.

At the first session only experimenter said:

Let's now do a short training session, so you get familiar with the task.

The observer then runs through a short training consisting of four illuminant-constant trials, one for each target. After the first session, the experimenter skips the training note and moves on to the general info section.

In today's session we will do about 8 (in illuminant-constant or 6 in illuminant-changed) blocks of trials, each consisting of about 40 trials (in illuminant-constant or 80 in illuminant-changed). At the beginning of each block, we will perform the calibration and validation for the eye tracker. We will repeat the calibration and validation every 20 trials. You will know it's time to repeat the calibration because the screen will display homogenous gray background. It is extremely important that you try not to move your head in between calibrations - that is, from the moment the calibration starts to the end of that block. In the pause before we do a new calibration and between blocks you will be able to move your head and take a break for however long you need.

Also, try not to blink within the actual trial. You can blink in the intervals between the trials before you click at the cross.

It is possible that within a trial a mouse ends up in a position on the desk that is not convenient for you. Use the interval between the trials to move the mouse to a more convenient position, if needed.