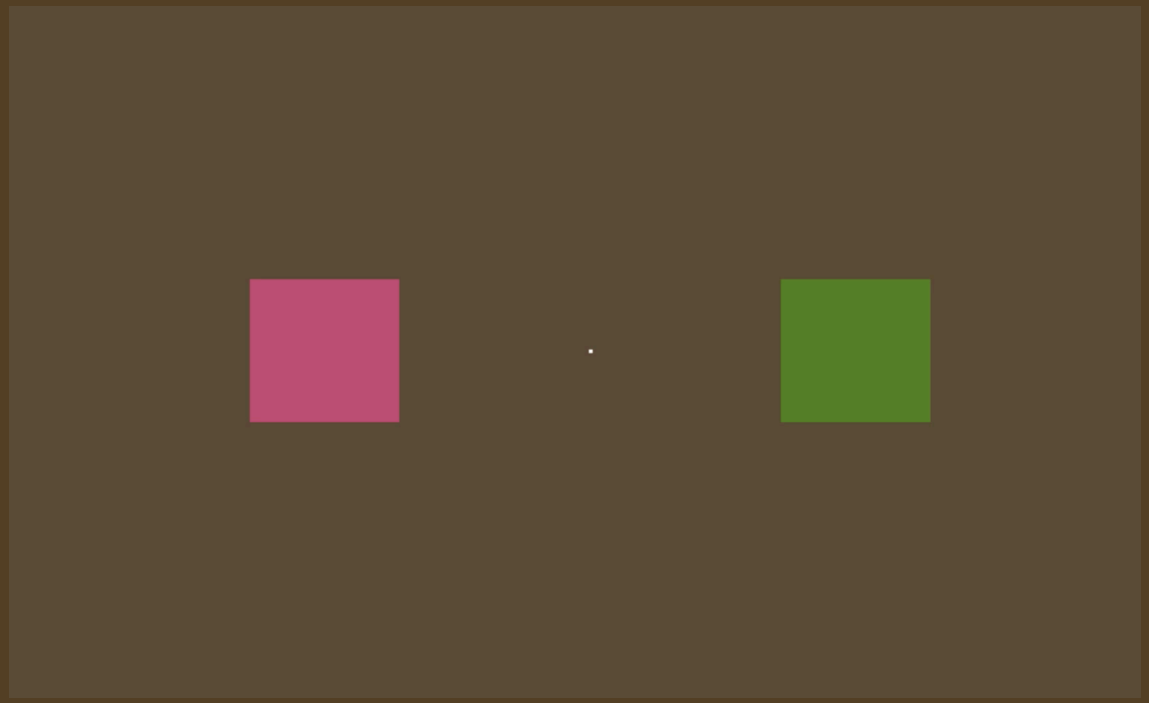
Welcome to our study!

In this task, you will be asked to remember colors that briefly flash on the computer screen.

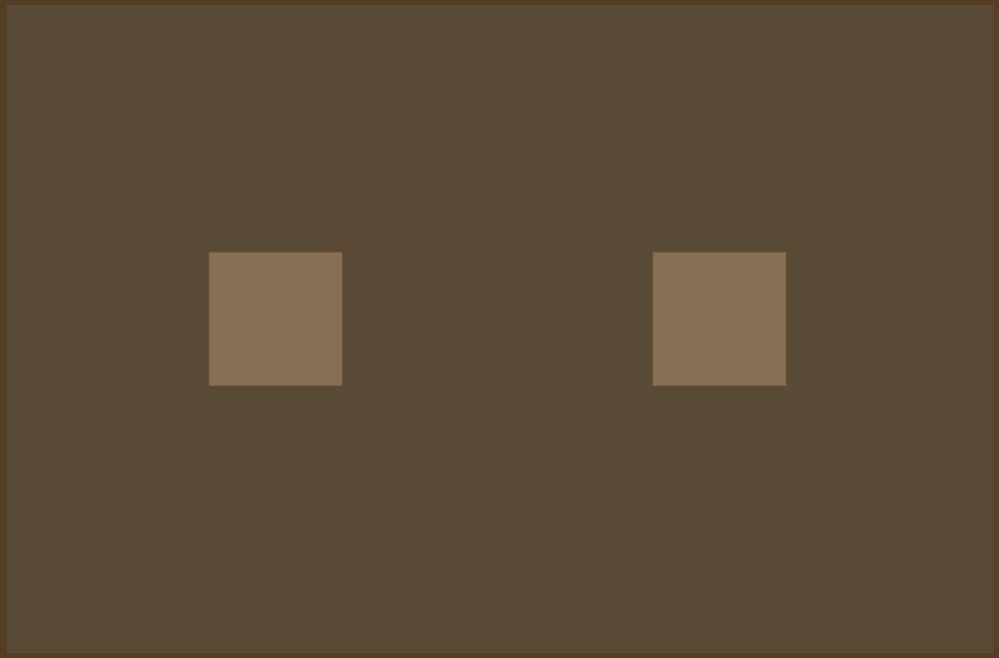
Please keep your gaze directed at the center of the screen throughout the task.

On each trial, two colorful squares will flash briefly on the screen like this:



Pay close attention to the color of the squares.

After the colorful squares disappear, two neutral-toned squares will return in their location briefly.

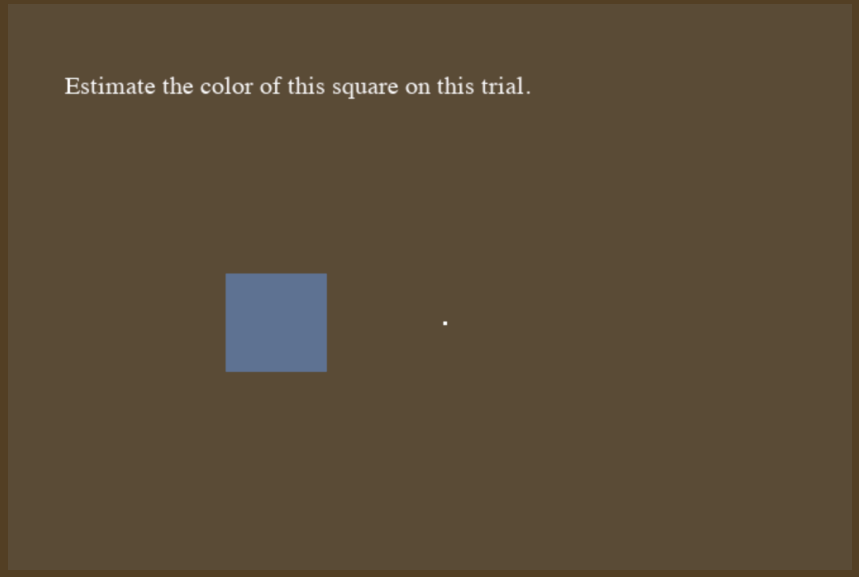


You will be asked to reproduce the colors of each square (stimulus) you saw on each trial.

The order for which of the stimulus location is prompted is random.

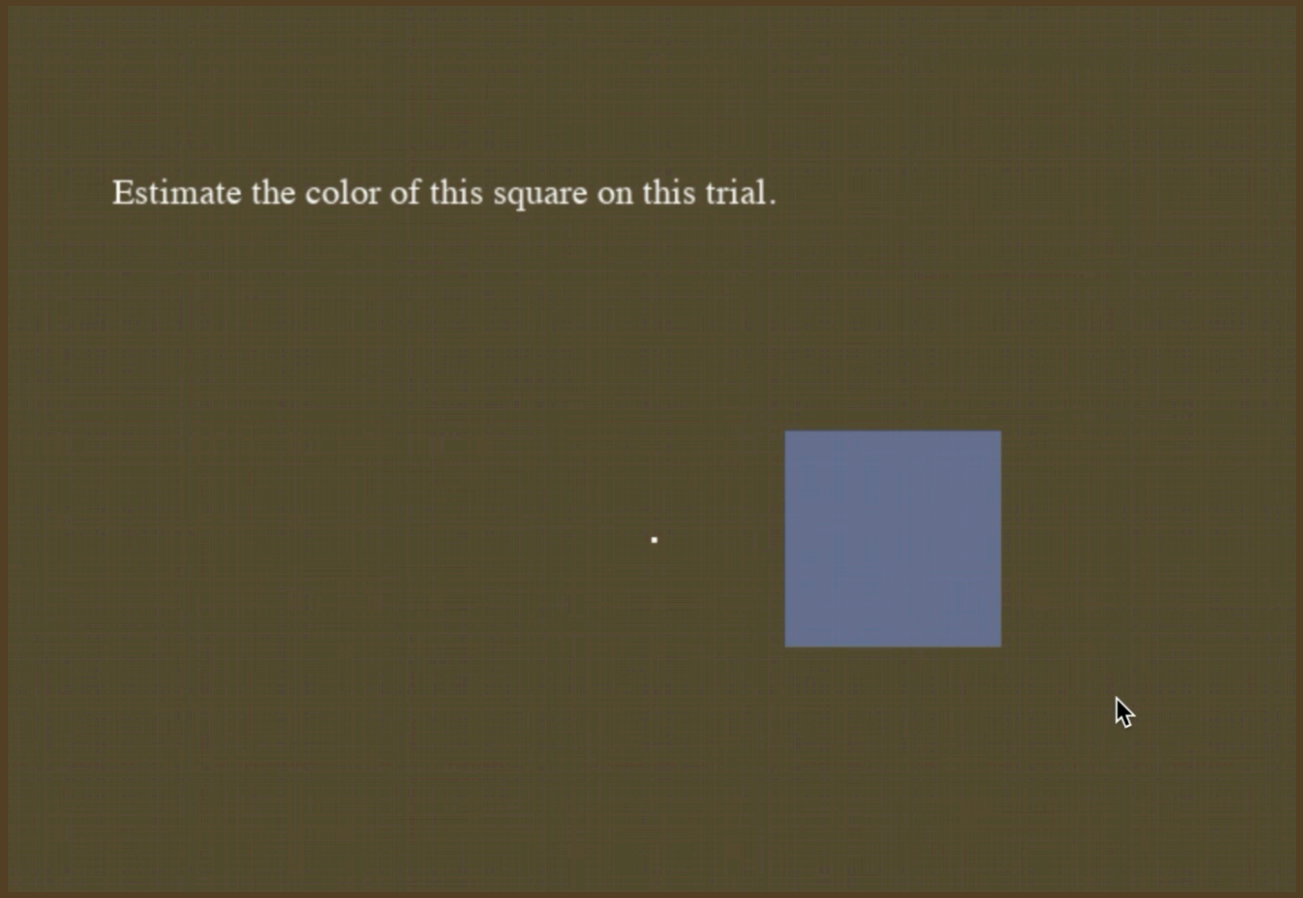
There is no relationship between the colors of the two stimuli.

The color for the prompted stimulus will start at random.

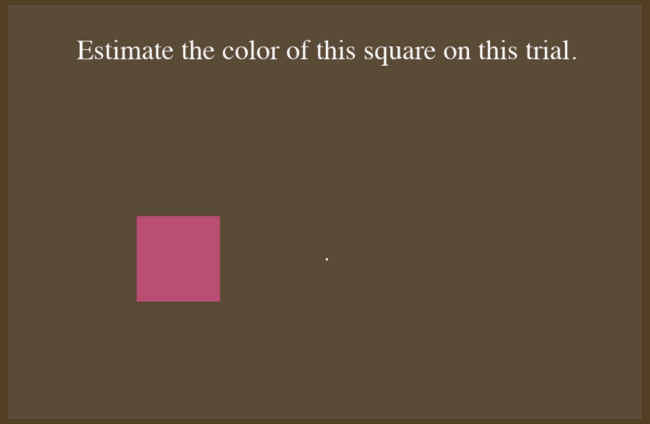


You can scroll the cursor up and down to find the color you believe you just saw for the square at the prompted location.

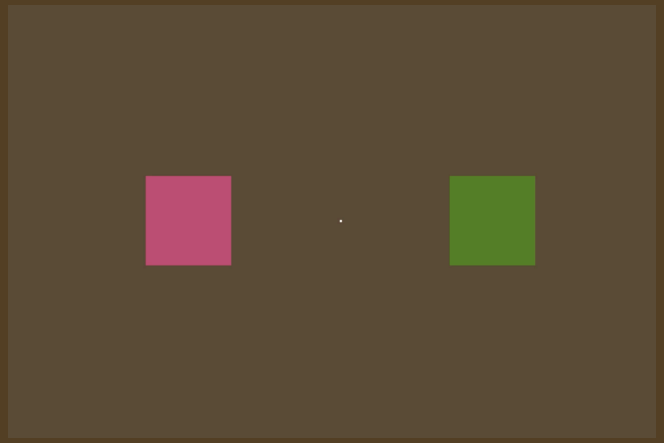
Like this:

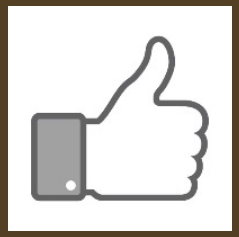


Once you think you have found the color you saw, you can select it by left clicking the mouse.



Below is what you saw earlier for this trial, so you have successfully selected the correct color for the left stimulus.



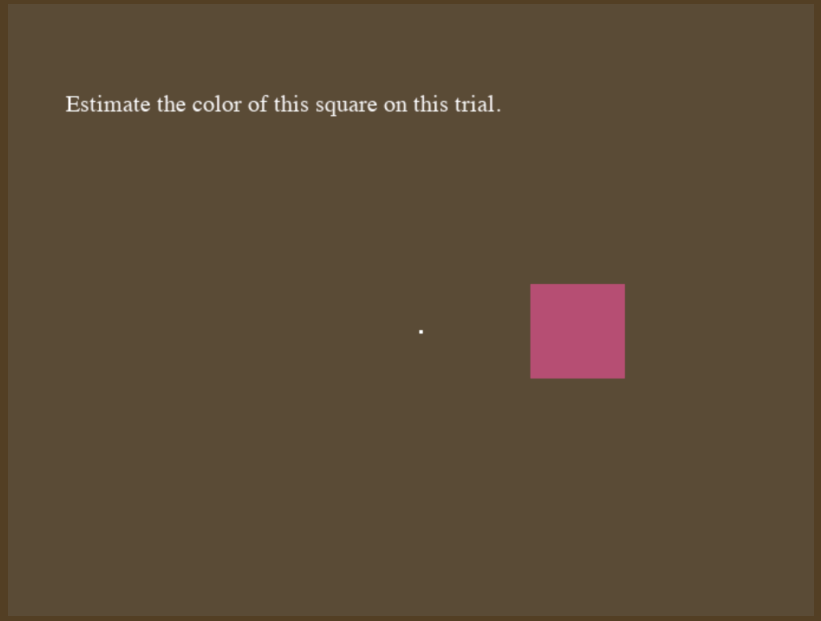


+1

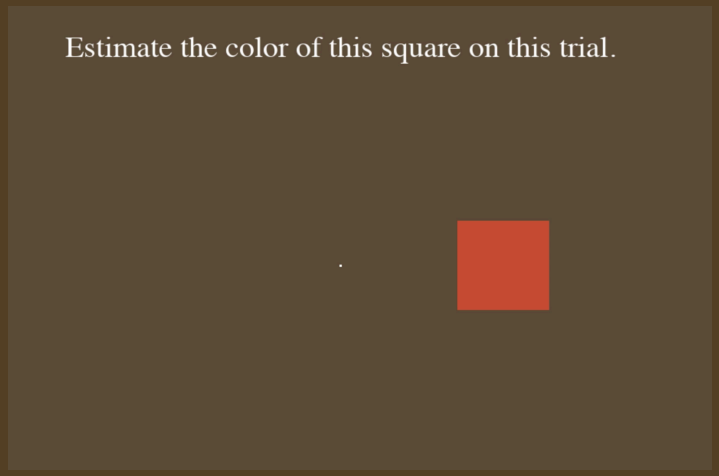
You will receive +1 point for a correct response.

Then you will be asked to estimate the color you saw for the other stimulus.

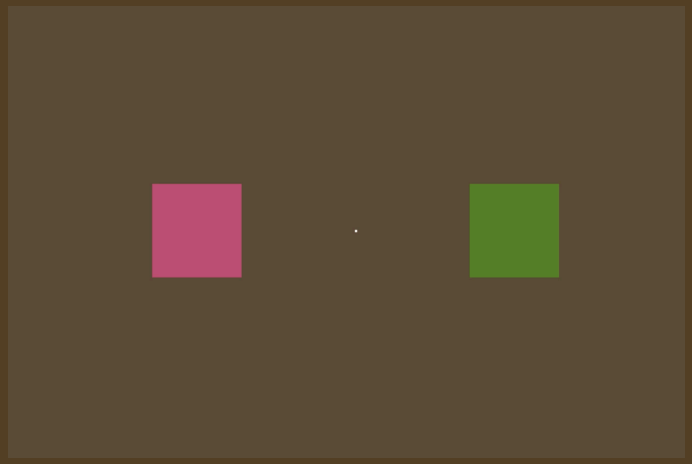
The color again will start at random.



Scroll the cursor up and down again to find the color, then left click to confirm your answer.



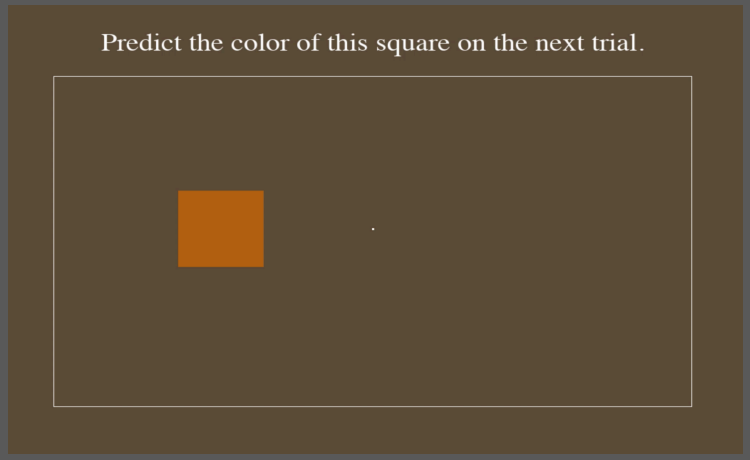
If you selected the color above, which is not what you saw in this trial:

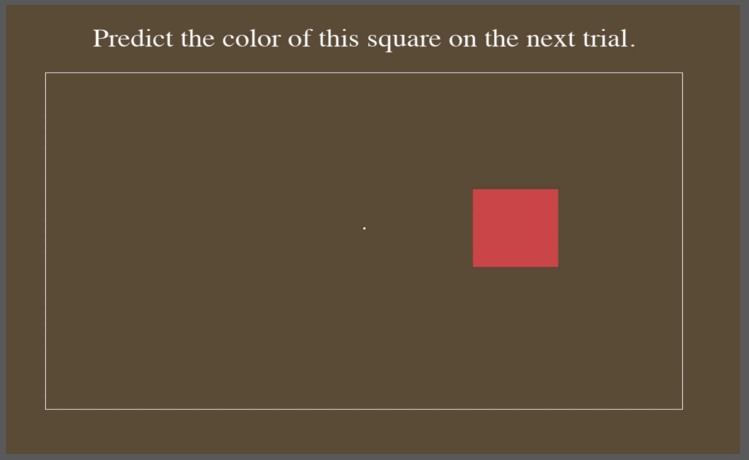


-1

You will receive -1 point for your answer.

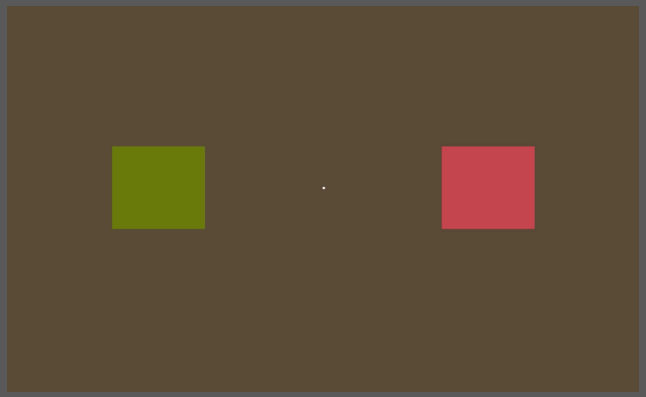
In the last two blocks, you will also be asked to predict the color of the prompted stimulus in the next trial like this:





Say you predicted the colors for each stimulus as shown above, and below is the colors you see in the next trial.

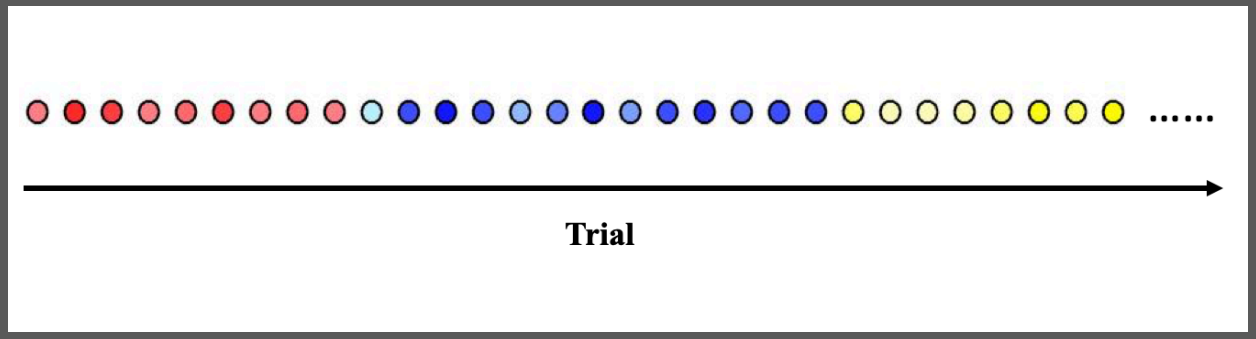
-1

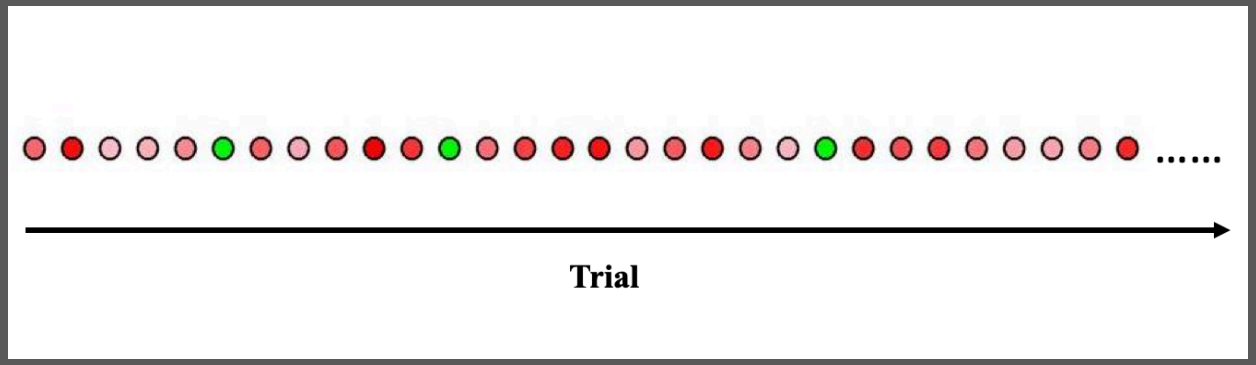


+1

In the blocks where you're asked to predict the colors, there is a pattern for how the colors change for each stimulus across trials.

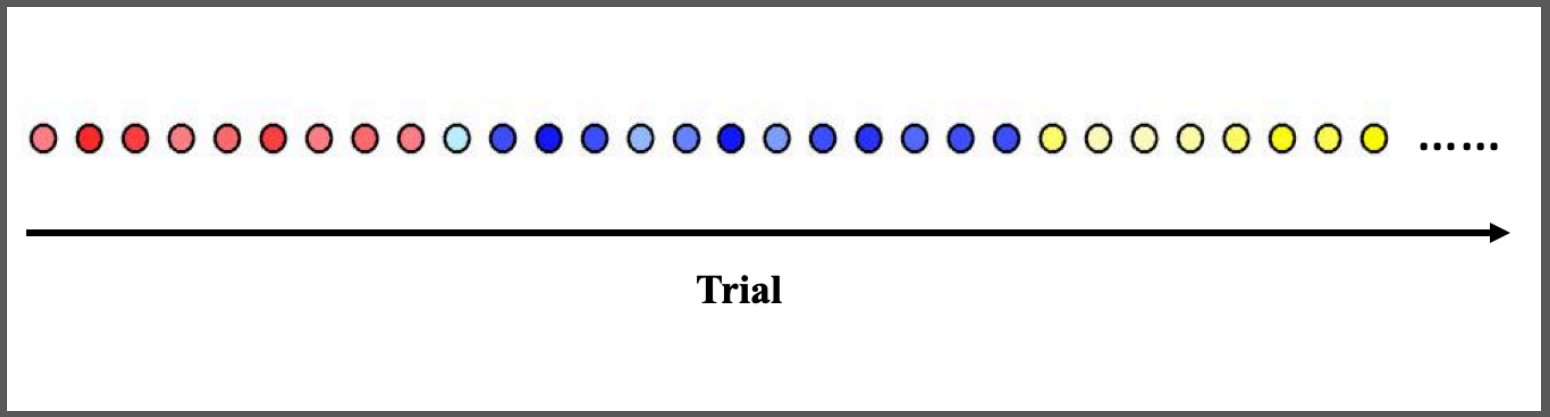
The color pattern in the two blocks are different, you will see one of these two figures before you enter a block to give you a hint about how the colors change in the specific block.

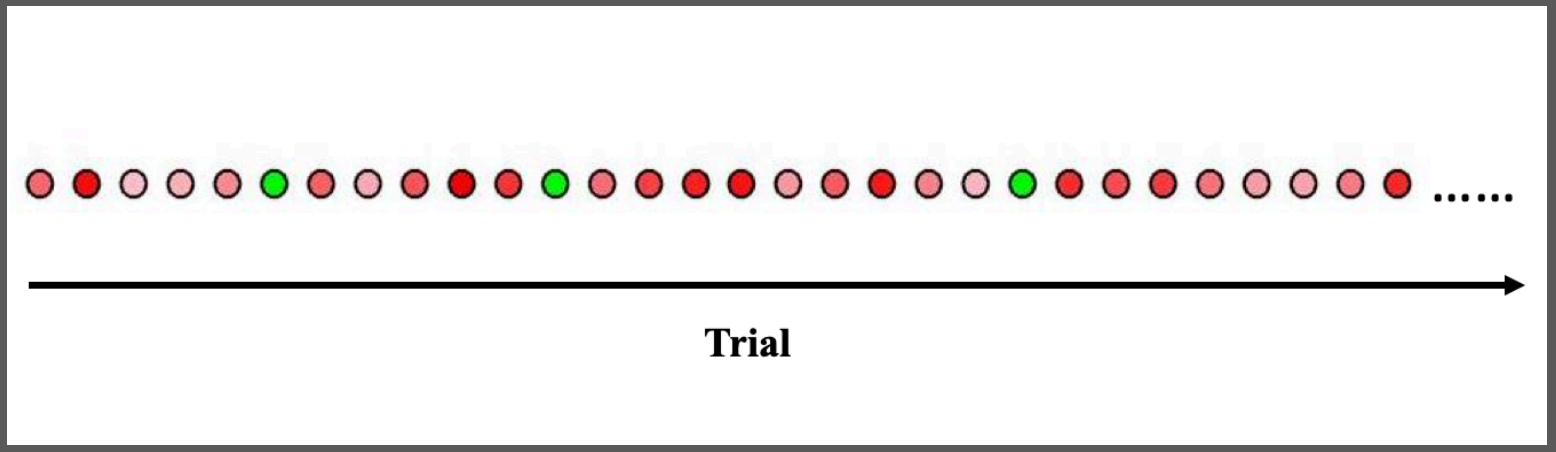




Each circle represents the color you will see for ONE stimulus in each trial. Remember the two stimuli are **independent** from each other.

Do you see the difference in changing pattern across trial in these two cases?





Your goal is to maximize the amount of correct colors for both estimation and prediction in all blocks. You will earn $1 bonus with every 50 points (?).

Hint:

You can more accurately predict if you pay attention to the color changing pattern in different blocks.

You will complete 4 blocks in total (including 1 practice block).

You can take breaks between the blocks if you need.

Do your best!

If you have any questions,

please ask the experimenter now.