A white background with black text

Description automatically generatedOriginal code:

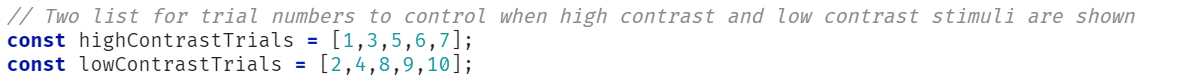
Modified Code:

A screenshot of a computer

Description automatically generated

I added two array to store the reaction time for each color, and the currentTrial variable is to tracks the trial.

Added code:



This is to control the which colour to appear in each trial

Original Code:

A computer code with text

Description automatically generated

Modified Code:

A computer code with text

Description automatically generated

experiment.currentTrial ++ is to make the current trial to the next trial

Original Code:

A screen shot of a computer code

Description automatically generated

Modified Code:

A computer screen shot of a program code

Description automatically generated

Added a few code for calculating the mean and the standard deviation and also displaying result at the end of the experiment.

Original Code:

A close-up of a computer code

Description automatically generated

Modified Code:

A close-up of a white background

Description automatically generated

experiment.currentTrial + 1, this line allow the array to start from 0, our currentTrial originally is set to -1

Original Code:

A computer code with text

Description automatically generated

Modified Code:

A screen shot of a computer code

Description automatically generated

The code highContrastTrials.includes…. checks if the adjusted current trial number is included in the highContrastTrials array.If the current trial number is found in the highContrastTrials array,the code excutes updateStimulus(“high-contrast”), this mean the stimulus being displayed for that trial will be set to a high-contrast color.If not found the code excutes updateStimulus(“low-contrast”)

Original Code:

A screen shot of a computer code

Description automatically generated

A screenshot of a computer code

Description automatically generated

The code stimulusElement.classList.remove… removes any existing classes that might have been previously applied for high-contrast or low-contrast state.It ensures that the element does not carry over style from previous state.The classList.remove property allow one or more classes being remove.

Original Code:

A screen shot of a computer code

Description automatically generated

Modified Code:

A screen shot of a computer code

Description automatically generated  
**let userReactedAt = Date.now()**, this code capture current timestamp, this represents the time when the user reacted.

**console.info("INFO: User reaction captured.", userReactedAt**), this line logs an informational message to the console, indicating that a user reaction has been recorded along with the exact timestamp when the reaction occurred.

**let deltaTime = userReactedAt - experiment.stimulusShownAt,** this line calculate the reaction time by subtracting the timestamp stored in **experiment.stimulusShownAt**(which represents when the stimulus was shown) from **userReactedAt**.The result **deltaTime** is the amount of time that passed between the stimulus being shown and the user’s reaction.

**experiment.times.push(deltaTime),** this line adds the calculated reaction time (**deltaTime**) to the **times** array.This array keep track of all reaction times for each trial.

if (highContrastTrials.includes(experiment.currentTrial + 1)){

experiment.redTimes.push(deltaTime);

} else {

experiment.lowContrastRedTimes.push(deltaTime);

}

This part of code check whether the current trial is in the highContrastTrials array,it it is deltaTime will be pushed into redTimes.

Original Code:

A computer code with text

Description automatically generated with medium confidence

Modified Code:

A screen shot of a computer code

Description automatically generated

I deleted the part where it displays the **textContent** because on the above we already have a function that display the result

Original Code:

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Description automatically generated

Modified Code:

A screenshot of a computer code

Description automatically generated

This code creates two table for each colour in the csv file.

exportData(csvData, "VisualReactionTestResults.csv"), call exportData and passing the constructed csvData string into a desired filename.

Idx is the short form of index