Stephanie Hau

Vanna Nguyen

Jessica Norgaard

Michael Qiu

Program start

* Some general specifications:
  + X Program runs at full screen, resolution 1024x768
  + X All font to be used is Arial (0, 0, 0), size 24 (or whatever is a reasonable font size at 1024x768), unless color is otherwise specified.
  + Unless otherwise specified, all displayed text is centered at the middle of the screen.
  + All “blank screens” are displays filled with (255, 255, 255) only.
  + Coordinates in text files are listed as:

x1,y1

x2,y2

where (x1,y1) is the top left corner and (x2,y2) is the bottom right corner.

* + All pictures will be 1024x768 in resolution and thus take up the entire screen.
  + Record all data to C:\PSYC193\Group Project\data\(subject ID).csv
* Fill screen with (255, 255, 255) (white background)
* Print: “Please enter the subject ID.”
  + Subject ID is entered by experimenter
  + The enter button proceeds to the next screen.

Prior to experiment:

* Print: “Thank you for volunteering to participate in our experiment. Please press the spacebar to continue.”
  + Wait for spacebar press.
* Print: “In this experiment you will be viewing sets of alternating images, and your task will be to identify the change in the scene. Possible risks include eyestrain and boredom. Your compensation will be the joy of helping students collect data for their research project. If you consent to these conditions, please press the spacebar to continue.”
  + Wait for spacebar press.
* Print: “Before the experiment begins, please answer the following survey questions about yourself. Press shift+enter simultaneously when you have answered all the questions.”
  + Fields to be filled in by the subject:
    - Age
    - Gender
    - Race (write “Decline to answer” if you prefer not to answer)
    - Do you have normal/corrected vision?
    - Education
    - Major
  + Record to C:\PSYC193\Group Project\Results\(subject ID).csv
  + If all fields are completed:
    - Wait for shift+enter press.

Practice trials

* Print: “We will now start a trial session for you to practice what you will be doing in the experiment. You will see two alternating images, separated by a flash. Press space to continue.”
  + Wait for spacebar press.
* Flash ‘trial1A.jpg’ for (1000 ms), flash blank for (100 ms), flash ‘trial1B.jpg’ for (1000 ms).
  + C:\PSYC193\Group Project\Stimuli\Practice trial\Trial 1\
* Wait 1 second.
* Print: “Your task is to click in the middle of the area in either picture where you identified the change. Press space to continue.”
  + Wait for spacebar press.
* Flash ‘trial1A.jpg’ for (1000 ms), flash blank for (100 ms), flash ‘trial1B.jpg’ for (1000 ms), flash blank for (100 ms), repeat indefinitely.
  + C:\PSYC193\Group Project\Stimuli\Practice trial\Trial 1\
  + If subject clicks within an area marked by coordinates in ‘trial1A.txt’ on ‘trial1A.jpg’ or ‘trial1B.txt’ on ‘trial1B.jpg’:
    - Display a white screen with the text “Correct! Press space to continue.” in (11, 97, 11)
      * Wait for spacebar press.
* Print: “Congratulations! You have successfully found the change. In the actual experiment, display times will be shorter, so we will now practice under those conditions. Press space to continue”
  + Wait for spacebar press.
* Flash ‘trial2A.jpg’ for (560 ms), flash blank for (100 ms), flash ‘trial2B.jpg’ for (560 ms), flash blank for (100 ms), repeat indefinitely.
  + C:\PSYC193\Group Project\Stimuli\Practice trial\Trial 2\
  + If subject clicks within an area marked by coordinates in ‘trial2A.txt’ on ‘trial2A.jpg’ or ‘trial2B.txt’ on ‘trial2B.jpg’:
    - Display a white screen with the text “Correct! Press space to continue.” in (11, 97, 11)
      * Wait for spacebar press.
* Print: “Congratulations! You have successfully found the change. Note that in the actual experiment, you will need to find the change within a certain amount of time. If you have any questions at this point, please ask the experimenter. Press space to continue.”
  + Wait for spacebar press.

Experiment:

* Print: “You will now begin the experimental portion of this session. Please press space to continue.”
  + Wait for spacebar press.
* 20 sets of stimuli (40 photos total) that will be shown in random order.
  + Flash ‘\*A.jpg’ for (560 ms), flash blank for (100 ms), ‘\*B.jpg’ for (560 ms), flash blank for (100 ms), repeat for (60 seconds).
    - \* denotes a random integer between 1 and 20 generated using a random number generator. No repeats are allowed.
    - C:\PSYC193\Group Project\Stimuli\Experiment\\*\
    - If subject clicks within an area marked by coordinates in ‘\*A.txt’ on ‘\*A.jpg’ or ‘\*B.txt’ on ‘\*B.jpg’:
      * Display a white screen with the text “Correct! Press space to continue.” in (11, 97, 11)
        + Wait for spacebar press.
    - Record data to C:\PSYC193\Group Project\Results\(subject ID).csv
      * + Record the set number (\*).
        + Record the time for the subject to make the correct response.
        + Record number and coordinates of incorrect clicks by the subject.
    - If subject is unable to detect change after (60 seconds), the trial will be recorded as a “miss” and the following text will display:
      * Print: “Unfortunately, you did not detect the change quickly enough. Please press space to continue.” in (204, 26, 26)
  + This process repeats until all 20 sets of stimuli has been shown.
    - After first 10 sets of stimuli has been shown, print: “You have reached the halfway mark of the experiment. You can choose to take a break or you can proceed through the rest of the experiment by pressing the spacebar.”
      * Wait for spacebar press.

After completion of experiment:

* Print: “Thank you for your participation! The purpose of this experiment was to determine whether people are more attentive to certain types of change. Please contact the experimenter.”
* Escape press closes the program.