

1. Questions about SST

- Practice block of 10 trials
 - Half X, half O (random presentation)
 - Max. response time 1000ms (display all stimuli for 1000ms regardless of participant response)
- Q1. ◦ 25% stop signal trials (distributed across block at random with no stops in a row)
- Set first stop signal delay at 250ms
- Decrease stop signal delay by 50ms after each unsuccessful stopping and increase it by 50ms after each successful stopping
- Provide instructional assistance on each trial (as per previous slides)
- Provide feedback on each trial (as per previous slides)

Q3. Display X/O stop stimuli for 1000ms (regardless of participant response)



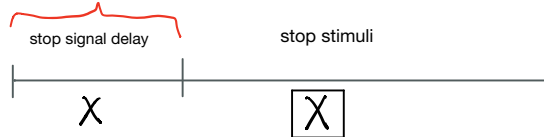
Display at end of practice block:

- Results of Practice Block
- Number of incorrect responses to go stimuli:
 - Number of missed responses to go stimuli:
 - Average reaction time to go stimuli: [where this is greater than 500ms, give the message "Too slow! Respond faster"]
 - Percentage of correctly suppressed responses on stop trials:
 - Seconds left to wait: [10 sec countdown]

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Question 1. There are 25% stop signal trials. $10 \times 25\% = 2.5$. So, the stop signal numbers should be 2 or 3 in the practice block?

Q2. Press any button (X/O) in this period



Question 2. There is a stop signal delay each time a stop signal appears.

For example, if the stop signal is X, the normal signal X should appear first, and after the stop signal delay, the stop signal X appears. If the user press any button (X or O) in the stop signal delay period, is it unsuccessful stop?

Question 3. Display stop stimuli for 1000ms. Does this mean the stop signal delay and the stop stimuli are totally displayed 1000ms or just the stop stimuli is displayed 1000ms.

Question 4. How to compute the average reaction time?

I am not sure if the average reaction time only contains correct responses time or it contains both correct responses and incorrect responses time?

2. Questions about N-back

Question 1.

Display if 'YES' – (after this page, go to Display B)

Select one of the following:

A) Over the counter pain medication

A) Prescription pain medication



Display B (proceed to next page after this)

Where are you located now?

A) Home

B) Work

C) School/University

D) Outdoors

E) Other

Question 1. Does it mean if the user select both the options it will go to Display B or the user select one of the options the system will remind the user to do the test later?

Question 2.

Display (after this page, proceed to Display C)

You will need a quiet place to do your task.
Are you in a sufficiently quiet place ?

<YES> <NO>

Question 2. If the user select <No>, the system will suggest the user to do the test later or just promote the user to do the test?

Question 3.

- Experimental block of 20 trials each for 1-back, 2-back, and 3-back (each trial interspersed with a blank screen, and a fixation cross). Each letter stimuli (any of the following 8: P, Q, L, K, W, C, V, Z) arranged in a randomised order.
 - Each trial displays a fixation cross for 500ms, then a letter stimuli for 500ms, and then a blank screen for 2500ms before presenting next letter stimuli.
 - Participants have the entire 3000ms to respond by pressing the yellow button, if they detect a target.
 - 33% of trials are targets (distributed across block at random) and 67% of trials are non-targets, as well as distractors (e.g., 2-back targets in a 3-trial block).

Question 3.

33% of trials are targets

$$20 \times 3.3\% = 6.6$$

So, the targets should be 6 or 7 in each experiment block?

Question 4,

3-back

[W, V, L, **W**, Q, V, C, **Q**, **V**, **C**, Z, P, K, V, C, **K**, **V**, **C**, Q, Z]

[W, W, W, **W**, Z, **W**, Q, **Z**, **W**, P, L, **W**, Z, C, Z, Q, **C**, W, **Q**, P]

2-back

[Z, Q, **Z**, **Q**, P, V, Z, P, Q, **P**, Z, K, Q, **K**, L, **K**, C, **K**, **C**, L]

[P, P, W, C, L, **C**, Z, P, **Z**, **P**, P, C, K, W, **K**, W, L, P, **L**, P]

1-back

[W, **W**, V, **V**, W, K, **K**, V, W, Q, **Q**, Z, V, L, V, **V**, Z, **Z**, K, **K**]

[K, W, V, **V**, Z, K, **K**, L, **L**, K, **K**, L, **L**, K, **K**, Z, K, P, V, **V**]

Question 4,

we have write algorithms that
can generate n-back lists.

Could you help me to check
if the lists we generated are
correct or not?

The red characters in the lists are targets.