

STOP TASK

3017031-05-Expt02
version A

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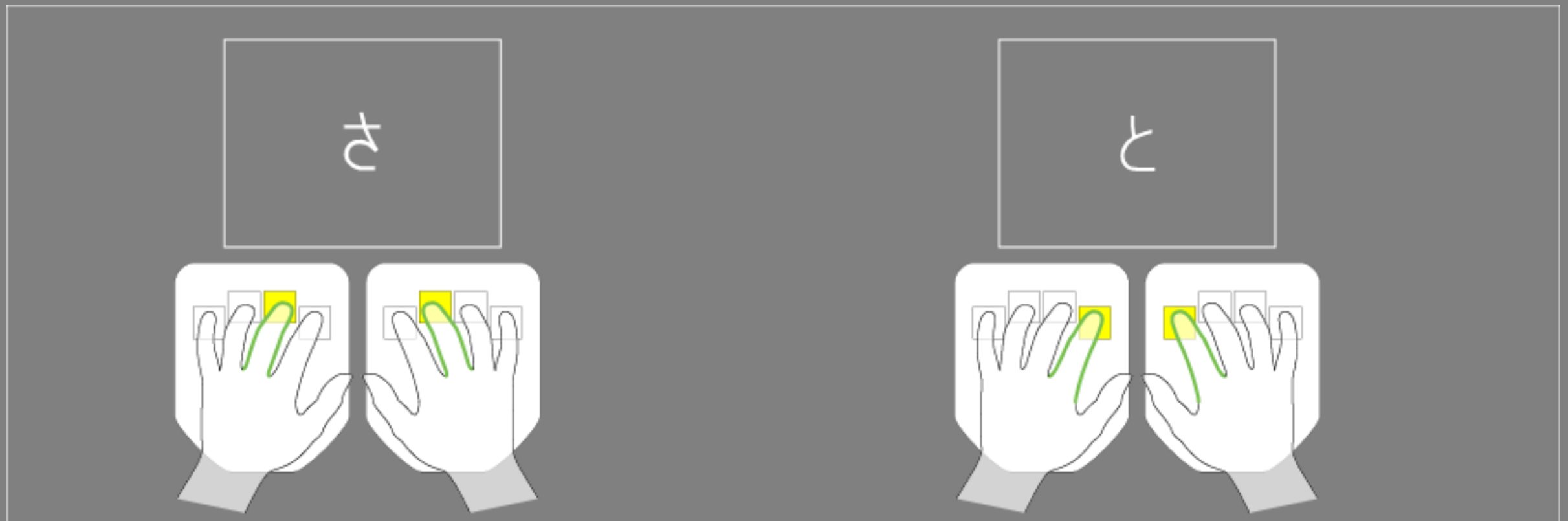
Bram Zandbelt (bramzandbelt@gmail.com)
Donders Institute, Radboud University

INSTRUCTIONS - PRACTICE - STAGE 1

Throughout the experiment, you will be presented with Japanese characters that will appear at the center of the screen. Your task is to respond to these characters as follows:

When you see ち, press the two upper buttons with your left and right middle fingers

When you see と, press the two lower buttons with your left and right index fingers



It is important that you respond as accurate, fast, and synchronous as possible.

Before the character appears, you will see a + for a short duration. Do not respond to this. After the character disappears, you will see feedback (for example: 'correct').

Do you have any questions? If not, press a button to continue.

INSTRUCTIONS - PRACTICE - STAGE 1

You will practice the task shortly. At the end of a practice round, you will receive feedback on your performance. An example screen is shown below. You will be evaluated on accuracy, speed, and synchrony of your responses.

middle finger	accuracy: 100% correct	Well done!
index finger	accuracy: 96% correct	Well done!
middle finger	speed: 522 ms	Well done!
index finger	speed: 549 ms	Well done!
middle finger	synchrony: 117 ms difference	Remember to make synchronous responses
index finger	synchrony: 124 ms difference	Remember to make synchronous responses

In the event that your performance does not meet all preset requirements, the right column of the feedback provides specific instructions on how you should try to improve performance.

If you have not met all requirements, you will have to repeat a practice stage. If you have not met all requirements after four repetitions, we will have to terminate the experiment.

Once you have met all requirements, try to maintain performance throughout the experiment.

Do you have any questions? If not, press a button to continue.

INSTRUCTIONS - PRACTICE - STAGE 1

You will practice the task for about 2 minutes.

Your main task is to respond to Japanese characters that appear on the screen.

- When you see ゼ, press the two upper buttons with your left and right middle fingers
- When you see ト, press the two lower buttons with your left and right index fingers

Remember:

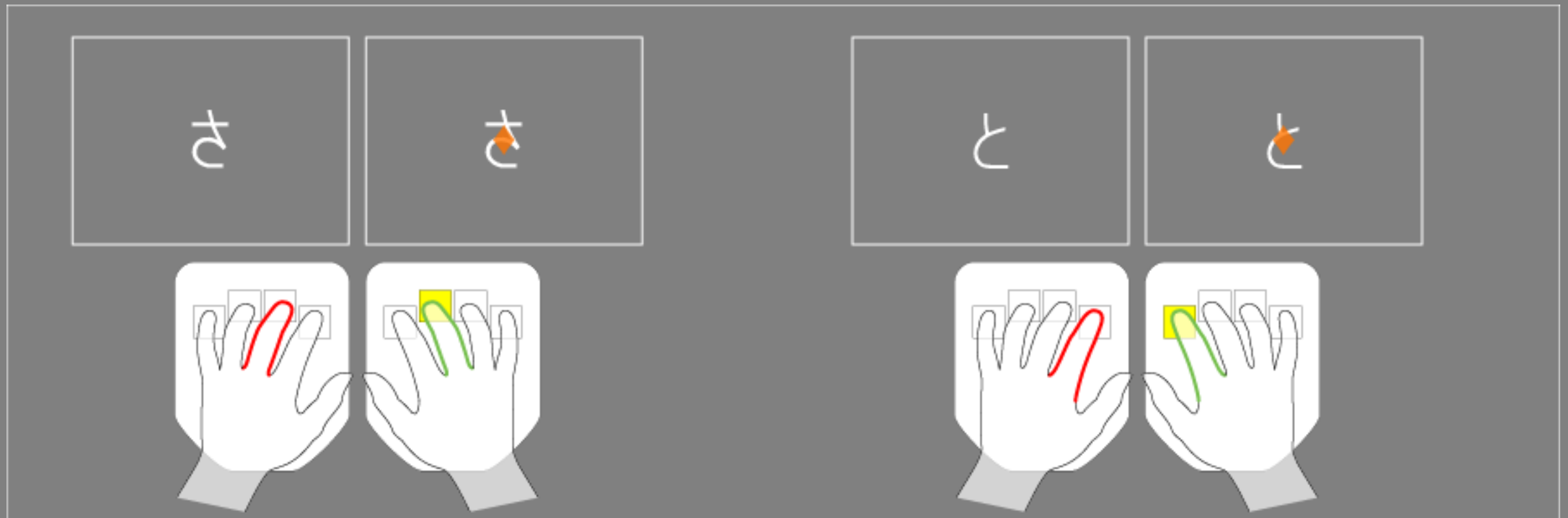
- You should respond as accurate, fast, and synchronous as possible

Do you have any questions? If not, press a button to start practice.

INSTRUCTIONS - PRACTICE - STAGE 2A

The task will now become slightly more difficult. Occasionally, the Japanese characters will be followed by a signal (playing card symbol). This signal instructs whether or not you should change your response to the Japanese character. There are four signals, and each signal has a unique instruction:

When you see ♦ stop ONLY your left finger



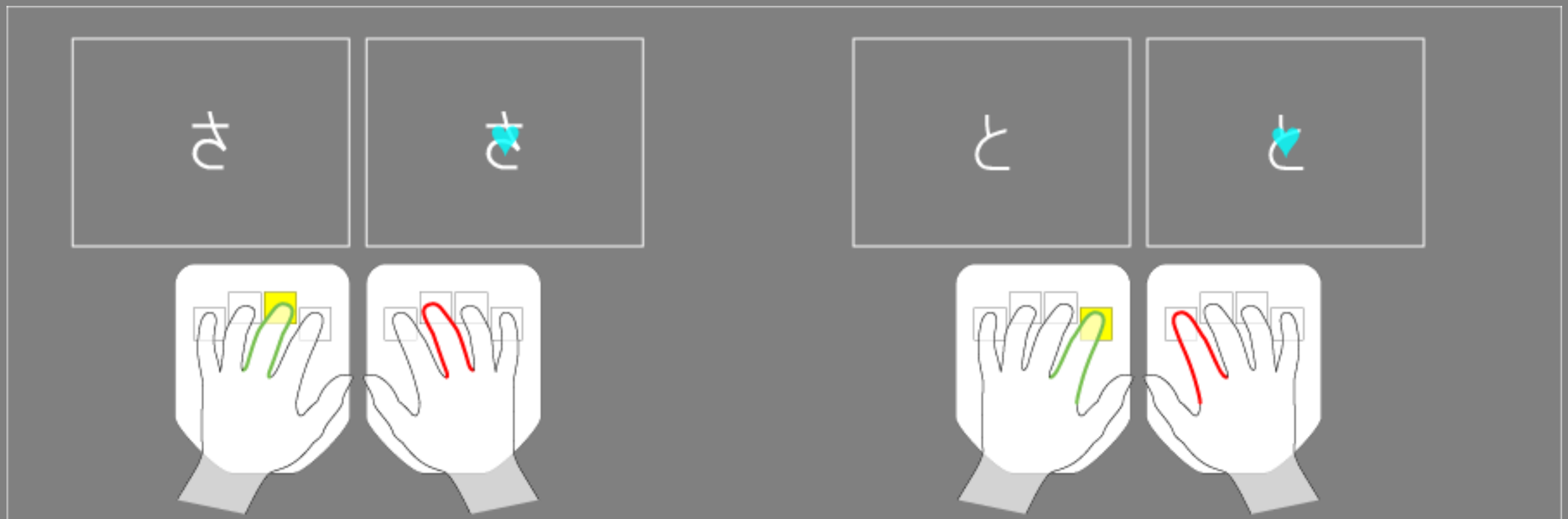
Do you have any questions? If not, press a button to continue

INSTRUCTIONS - PRACTICE - STAGE 2A

The task will now become slightly more difficult. Occasionally, the Japanese characters will be followed by a signal (playing card symbol). This signal instructs whether or not you should change your response to the Japanese character. There are four signals, and each signal has a unique instruction:

When you see ♦ stop ONLY your left finger

When you see ♥ stop ONLY your right finger



Do you have any questions? If not, press a button to continue

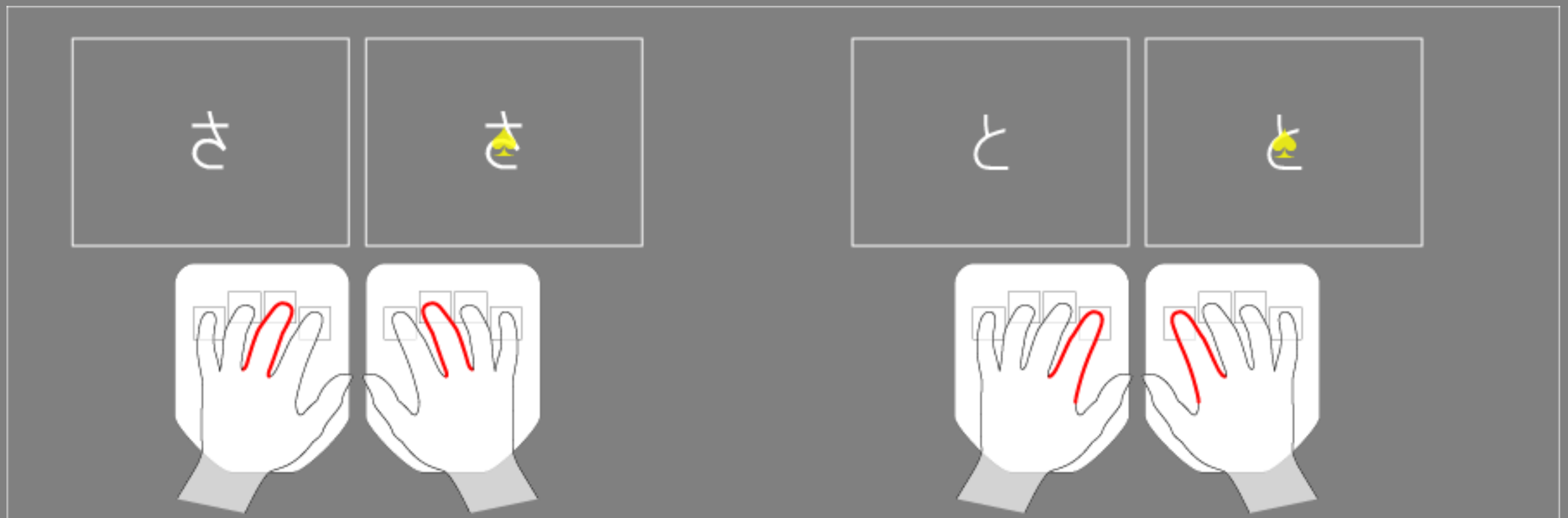
INSTRUCTIONS - PRACTICE - STAGE 2A

The task will now become slightly more difficult. Occasionally, the Japanese characters will be followed by a signal (playing card symbol). This signal instructs whether or not you should change your response to the Japanese character. There are four signals, and each signal has a unique instruction:

When you see ♦ stop ONLY your left finger

When you see ♥ stop ONLY your right finger

When you see ♠ stop BOTH your left and right finger



Do you have any questions? If not, press a button to continue

INSTRUCTIONS - PRACTICE - STAGE 2A

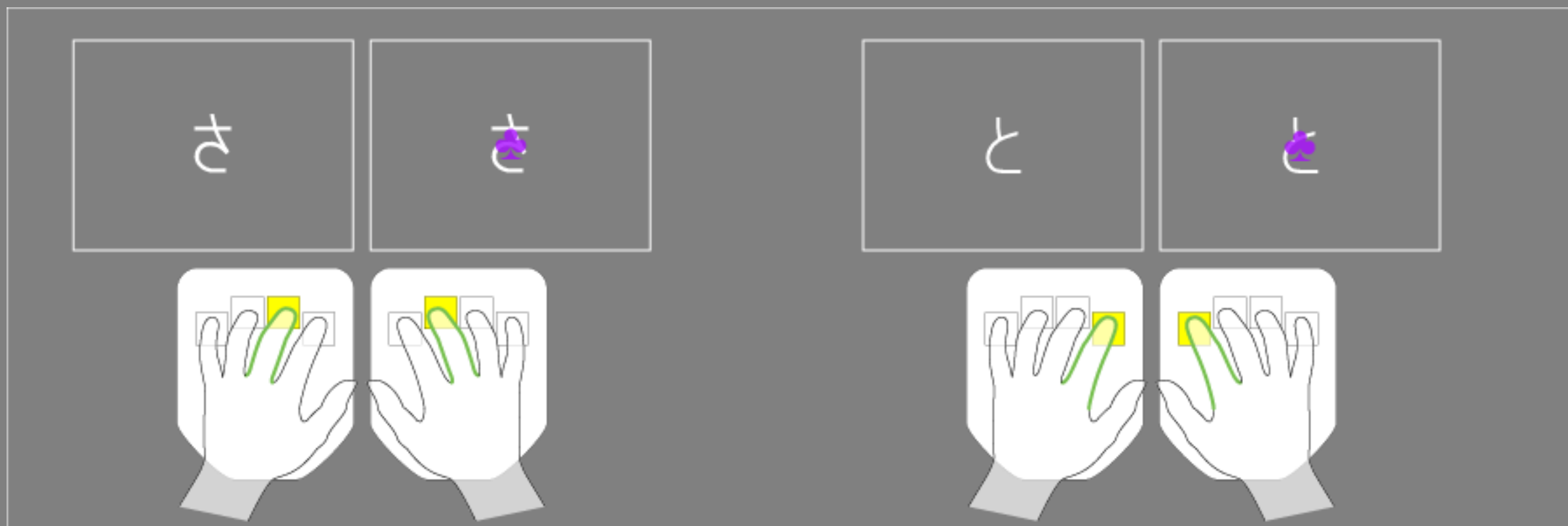
The task will now become slightly more difficult. Occasionally, the Japanese characters will be followed by a signal (playing card symbol). This signal instructs whether or not you should change your response to the Japanese character. There are four signals, and each signal has a unique instruction:

When you see ♦ stop ONLY your left finger

When you see ♥ stop ONLY your right finger

When you see ♠ stop BOTH your left and right finger

When you see ♣ ignore it and do NOT stop your left and right finger



Do you have any questions? If not, press a button to continue

INSTRUCTIONS - PRACTICE - STAGE 2A

The task will now become slightly more difficult. Occasionally, the Japanese characters will be followed by a signal (playing card symbol). This signal instructs whether or not you should change your response to the Japanese character. There are four signals, and each signal has a unique instruction:

When you see  stop ONLY your left finger

When you see  stop ONLY your right finger

When you see  stop BOTH your left and right finger

When you see  ignore it and do NOT stop your left and right finger

The presentation of these signals is random: they will not occur in a predictable order. You may not always be able to change your response to the signal. That is ok. It is very important that you do not wait for the signal to appear.

Do you have any questions? If not, press a button to continue

PRACTICE - STAGE 2 - INSTRUCTIONS

You will practice the task again shortly. Now, the Japanese characters will occasionally be followed by a signal.



At the end of a practice round, you will receive **feedback** on your performance. You will be evaluated on accuracy, speed, and synchrony of your responses. **You will also be evaluated on accuracy of your response to the signals** (see example below).

middle finger	accuracy: 100% correct	Well done!
index finger	accuracy: 100% correct	Well done!
middle finger	speed: 501 ms	Well done!
index finger	speed: 491 ms	Well done!
middle finger	synchrony: 9 ms difference	Well done!
index finger	synchrony: 13 ms difference	Well done!
stop both	accuracy: 0% correct	Remember to stop right when you see ♥
ignore	accuracy: 100% correct	Well done!

In the event that your performance does not meet all preset requirements, the right column of the feedback provides specific instructions on how you should try to improve performance. You will have to repeat a practice stage until all requirements are met. If you have not met all requirements after four repetitions, we will have to terminate the experiment.

Do you have any questions? If not, press a button to continue

INSTRUCTIONS - PRACTICE - STAGE 2A

You will practice the task again for about 4 minutes. Now, the Japanese characters will occasionally be followed by one of the following two signals:  or 

Your main task is to respond to Japanese characters that appear on the screen.

- When you see ㇏, press the two upper buttons with your left and right middle fingers
- When you see ㇏, press the two lower buttons with your left and right index fingers

Occasionally, these Japanese characters will be followed by a signal (playing card symbol):

- When you see  stop ONLY your left finger
- When you see  stop ONLY your right finger

Remember:

- You should respond as accurate, fast, and synchronous as possible
- You should not wait for the signal
- You should try to maintain performance throughout the experiment

Do you have any questions? If not, press a button to start practice.

INSTRUCTIONS - PRACTICE - STAGE 2B

You will practice the task again for about 4 minutes. Now, the Japanese characters will occasionally be followed by one of the following two signals: ♠ or ♣

Your main task is to respond to Japanese characters that appear on the screen.

- When you see ㇏, press the two upper buttons with your left and right middle fingers
- When you see ㇏, press the two lower buttons with your left and right index fingers

Occasionally, these Japanese characters will be followed by a signal (playing card symbol):





- When you see ♠ stop BOTH your left and right finger
- When you see ♣ ignore it and do NOT stop your left and right finger

Remember:

- You should respond as accurate, fast, and synchronous as possible
- You should not wait for the signal
- You should try to maintain performance throughout the experiment

Do you have any questions? If not, press a button to start practice.





INSTRUCTIONS - PRACTICE - STAGE 3

You will practice the task for the last time for about 4 minutes. Now, the Japanese characters will occasionally be followed by one of the following four signals: , , , or .

Your main task is to respond to Japanese characters that appear on the screen.

- When you see ㇏, press the two upper buttons with your left and right middle fingers
- When you see ㇏, press the two lower buttons with your left and right index fingers

Occasionally, these Japanese characters will be followed by a signal (playing card symbol):

- When you see  stop ONLY your left finger
- When you see  stop ONLY your right finger
- When you see  stop BOTH your left and right finger
- When you see  ignore it and do NOT stop your left and right finger

Remember:

- You should respond as accurate, fast, and synchronous as possible
- You should not wait for the signal
- You should try to maintain performance throughout the experiment

Do you have any questions? If not, press a button to start practice.





INSTRUCTIONS - EXPERIMENT

You will perform 12 blocks of the task, each lasting approximately 4 minutes. At the end of each block you will receive feedback. The task will resume after 12 seconds. After 6 blocks, there will be a short break

Your main task is to respond to Japanese characters that appear on the screen.

- When you see ㇰ, press the two upper buttons with your left and right middle fingers
- When you see ㇱ, press the two lower buttons with your left and right index fingers

Occasionally, these Japanese characters will be followed by a signal (playing card symbol):

- When you see  stop ONLY your left finger
- When you see  stop ONLY your right finger
- When you see  stop BOTH your left and right finger
- When you see  ignore it and do NOT stop your left and right finger

Remember:

- You should respond as accurate, fast, and synchronous as possible
- You should not wait for the signal
- You should try to maintain performance throughout the experiment

Press a button to continue

STOP TASK

3017031-05-Expt02
version B

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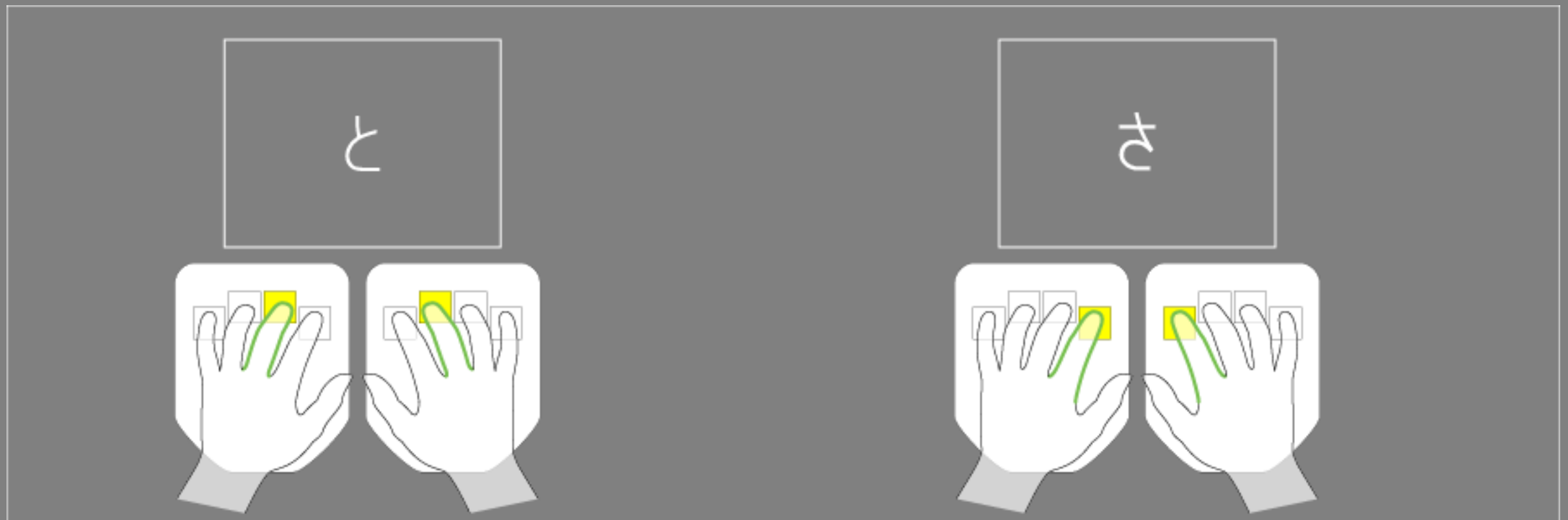
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INSTRUCTIONS - PRACTICE - STAGE 1

Throughout the experiment, you will be presented with Japanese characters that will appear at the center of the screen. Your task is to respond to these characters as follows:

When you see と, press the two upper buttons with your left and right middle fingers

When you see ち, press the two lower buttons with your left and right index fingers



It is important that you respond as accurate, fast, and synchronous as possible.

Before the character appears, you will see a + for a short duration. Do not respond to this. After the character disappears, you will see feedback (for example: 'correct').

Do you have any questions? If not, press a button to continue.

INSTRUCTIONS - PRACTICE - STAGE 1

You will practice the task shortly. At the end of a practice round, you will receive feedback on your performance. An example screen is shown below. You will be evaluated on accuracy, speed, and synchrony of your responses.

middle finger	accuracy: 100% correct	Well done!
index finger	accuracy: 96% correct	Well done!
middle finger	speed: 522 ms	Well done!
index finger	speed: 549 ms	Well done!
middle finger	synchrony: 117 ms difference	Remember to make synchronous responses
index finger	synchrony: 124 ms difference	Remember to make synchronous responses

In the event that your performance does not meet all preset requirements, the right column of the feedback provides specific instructions on how you should try to improve performance.

If you have not met all requirements, you will have to repeat a practice stage. If you have not met all requirements after four repetitions, we will have to terminate the experiment.

Once you have met all requirements, try to maintain performance throughout the experiment.

Do you have any questions? If not, press a button to continue.

INSTRUCTIONS - PRACTICE - STAGE 1

You will practice the task for about 2 minutes.

Your main task is to respond to Japanese characters that appear on the screen.

- When you see と, press the two upper buttons with your left and right middle fingers
- When you see っ, press the two lower buttons with your left and right index fingers

Remember

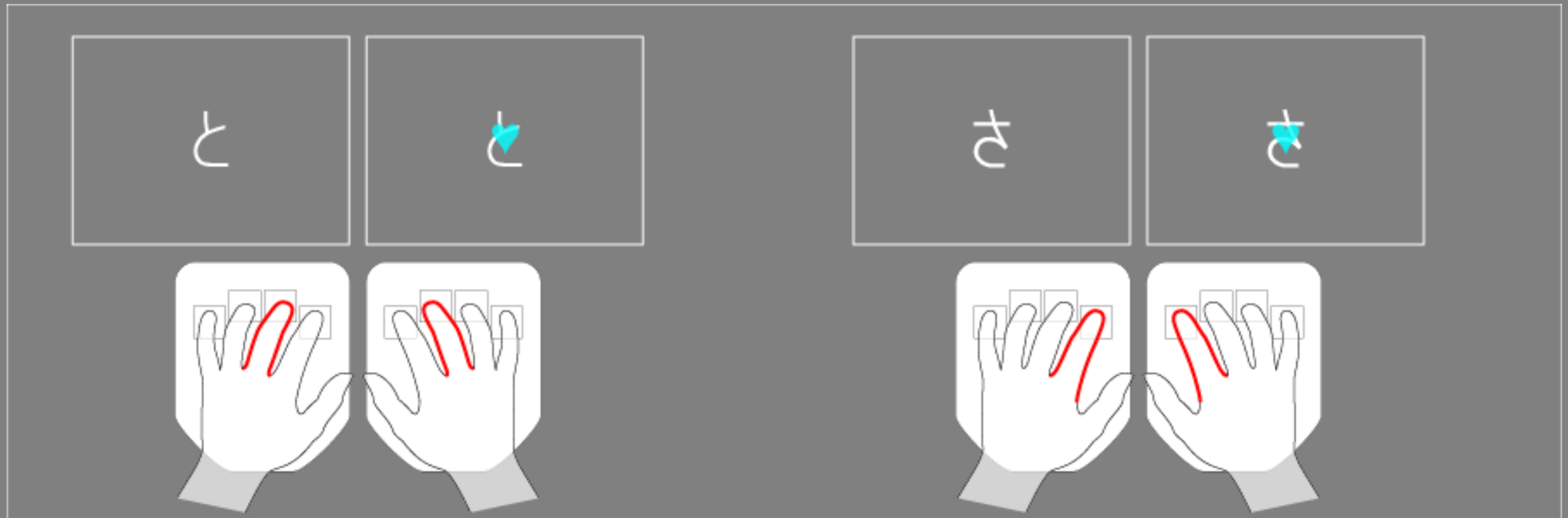
- You should respond as accurate, fast, and synchronous as possible

Do you have any questions? If not, press a button to start practice.

INSTRUCTIONS - PRACTICE - STAGE 2A

The task will now become slightly more difficult. Occasionally, the Japanese characters will be followed by a signal (playing card symbol). This signal instructs whether or not you should change your response to the Japanese character. There are four signals, and each signal has a unique instruction:

When you see ♥ stop BOTH your left and right finger



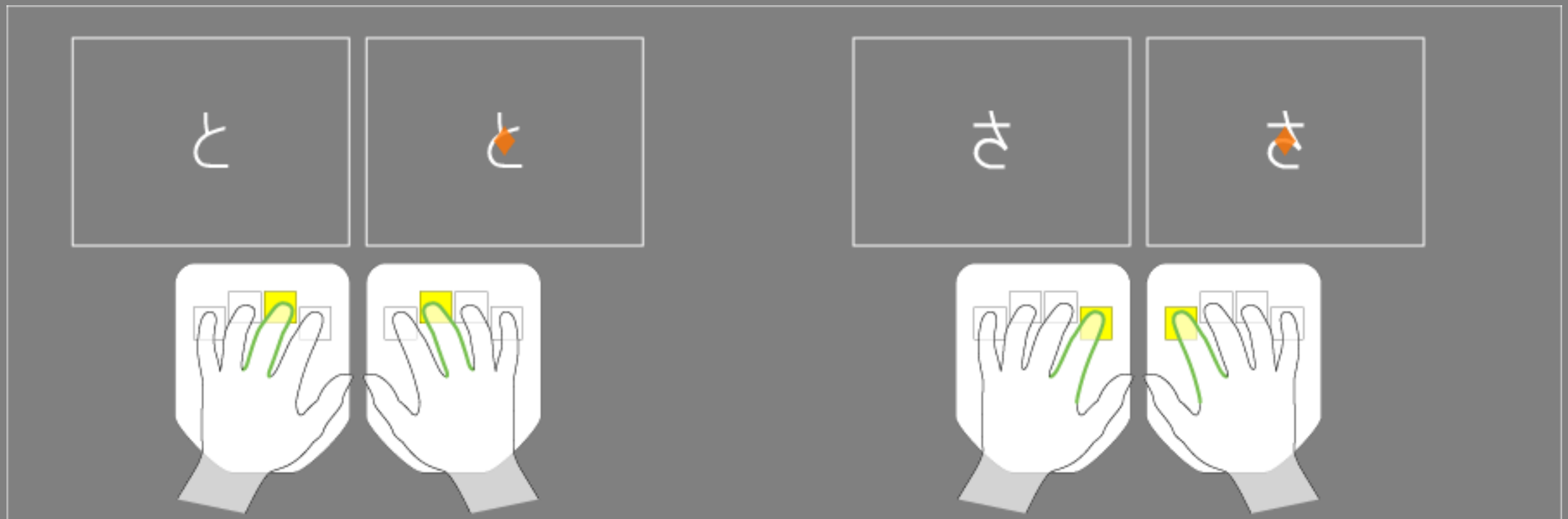
Do you have any questions? If not, press a button to continue

INSTRUCTIONS - PRACTICE - STAGE 2A

The task will now become slightly more difficult. Occasionally, the Japanese characters will be followed by a signal (playing card symbol). This signal instructs whether or not you should change your response to the Japanese character. There are four signals, and each signal has a unique instruction:

When you see ♥ stop BOTH your left and right finger

When you see ♦ ignore it and do *NOT* stop your left and right finger



Do you have any questions? If not, press a button to continue

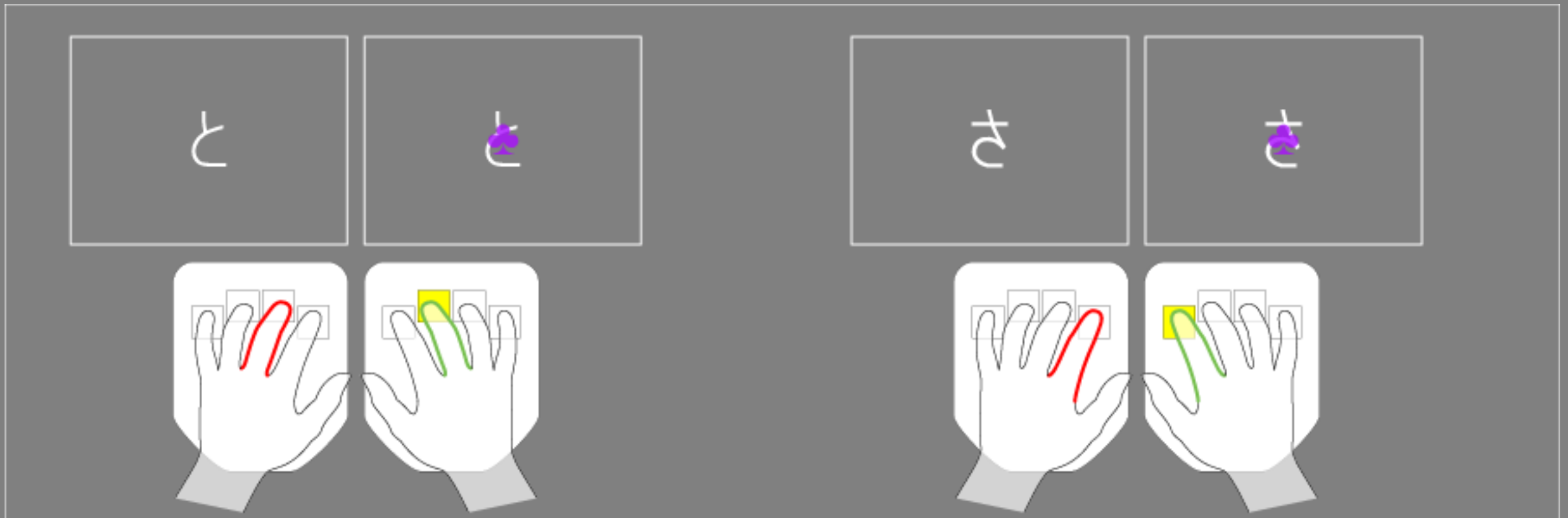
INSTRUCTIONS - PRACTICE - STAGE 2A

The task will now become slightly more difficult. Occasionally, the Japanese characters will be followed by a signal (playing card symbol). This signal instructs whether or not you should change your response to the Japanese character. There are four signals, and each signal has a unique instruction:

When you see ♥ stop BOTH your left and right finger

When you see ♦ ignore it and do *NOT* stop your left and right finger

When you see ♣ stop ONLY your left finger



Do you have any questions? If not, press a button to continue

INSTRUCTIONS - PRACTICE - STAGE 2A

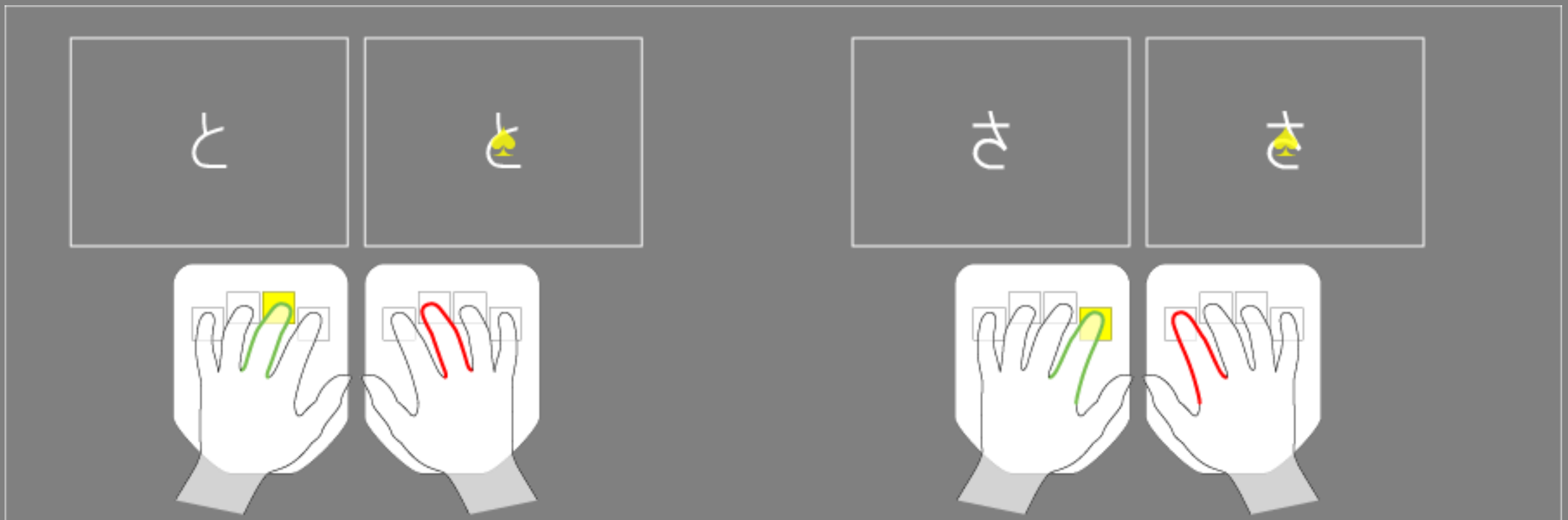
The task will now become slightly more difficult. Occasionally, the Japanese characters will be followed by a signal (playing card symbol). This signal instructs whether or not you should change your response to the Japanese character. There are four signals, and each signal has a unique instruction:

When you see ♥ stop BOTH your left and right finger

When you see ♦ ignore it and do *NOT* stop your left and right finger

When you see ♣ stop ONLY your left finger

When you see ♠ stop ONLY your right finger



Do you have any questions? If not, press a button to continue

INSTRUCTIONS - PRACTICE - STAGE 2A

The task will now become slightly more difficult. Occasionally, the Japanese characters will be followed by a signal (playing card symbol). This signal instructs whether or not you should change your response to the Japanese character. There are four signals, and each signal has a unique instruction:

When you see  stop BOTH your left and right finger

When you see  ignore it and do *NOT* stop your left and right finger

When you see  stop ONLY your left finger

When you see  stop ONLY your right finger

The presentation of these signals is random: they will not occur in a predictable order. You may not always be able to change your response to the signal. That is ok. It is very important that you do not wait for the signal to appear.

Do you have any questions? If not, press a button to continue

PRACTICE - STAGE 2 - INSTRUCTIONS

You will practice the task again shortly. Now, the Japanese characters will occasionally be followed by a signal.



At the end of a practice round, you will receive **feedback** on your performance. You will be evaluated on accuracy, speed, and synchrony of your responses. **You will also be evaluated on accuracy of your response to the signals** (see example below).

middle finger	accuracy: 97% correct	Well done!
index finger	accuracy: 90% correct	Well done!
middle finger	speed: 488 ms	Well done!
index finger	speed: 521 ms	Well done!
middle finger	synchrony: 13 ms difference	Well done!
index finger	synchrony: 12 ms difference	Well done!
stop both	accuracy: 0% correct	Remember to stop left & right when you see ♥
ignore	accuracy: 85% correct	Well done!

In the event that your performance does not meet all preset requirements, the right column of the feedback provides specific instructions on how you should try to improve performance. You will have to repeat a practice stage until all requirements are met. If you have not met all requirements after four repetitions, we will have to terminate the experiment.

Do you have any questions? If not, press a button to continue

INSTRUCTIONS - PRACTICE - STAGE 2A

You will practice the task again for about 4 minutes. Now, the Japanese characters will occasionally be followed by one of the following two signals:  or 

Your main task is to respond to Japanese characters that appear on the screen.

- When you see と, press the two upper buttons with your left and right middle fingers
- When you see っ, press the two lower buttons with your left and right index fingers

Occasionally, these Japanese characters will be followed by a signal (playing card symbol):

- When you see  stop BOTH your left and right finger
- When you see  ignore it and do NOT stop your left and right finger

Remember:

- You should respond as accurate, fast, and synchronous as possible
- You should not wait for the signal
- You should try to maintain performance throughout the experiment

Do you have any questions? If not, press a button to start practice.

INSTRUCTIONS - PRACTICE - STAGE 2B

You will practice the task again for about 4 minutes. Now, the Japanese characters will occasionally be followed by one of the following two signals: ♠ or ♣

Your main task is to respond to Japanese characters that appear on the screen.

- When you see と, press the two upper buttons with your left and right middle fingers
- When you see っ, press the two lower buttons with your left and right index fingers

Occasionally, these Japanese characters will be followed by a signal (playing card symbol):





- When you see ♣ stop ONLY your left finger
- When you see ♠ stop ONLY your right finger

Remember:

- You should respond as accurate, fast, and synchronous as possible
- You should not wait for the signal
- You should try to maintain performance throughout the experiment

Do you have any questions? If not, press a button to start practice.





INSTRUCTIONS - PRACTICE - STAGE 3

You will practice the task for the last time for about 4 minutes. Now, the Japanese characters will occasionally be followed by one of the following four signals: , , , or .

Your main task is to respond to Japanese characters that appear on the screen.

- When you see と, press the two upper buttons with your left and right middle fingers
- When you see ㇿ, press the two lower buttons with your left and right index fingers

Occasionally, these Japanese characters will be followed by a signal (playing card symbol):

- When you see  stop BOTH your left and right finger
- When you see  ignore it and do NOT stop your left and right finger
- When you see  stop ONLY your left finger
- When you see  stop ONLY your right finger

Remember:

- You should respond as accurate, fast, and synchronous as possible
- You should not wait for the signal
- You should try to maintain performance throughout the experiment

Do you have any questions? If not, press a button to start practice.

INSTRUCTIONS - EXPERIMENT

You will perform 12 blocks of the task, each lasting approximately 4 minutes. At the end of each block you will receive feedback. The task will resume after 12 seconds. After 6 blocks, there will be a short break

Your main task is to respond to Japanese characters that appear on the screen.

- When you see と, press the two upper buttons with your left and right middle fingers
- When you see ㇰ, press the two lower buttons with your left and right index fingers

Occasionally, these Japanese characters will be followed by a signal (playing card symbol):

- When you see ♥ stop BOTH your left and right finger
- When you see ♦ ignore it and do NOT stop your left and right finger
- When you see ♣ stop ONLY your left finger
- When you see ♠ stop ONLY your right finger

Remember:

- You should respond as accurate, fast, and synchronous as possible
- You should not wait for the signal
- You should try to maintain performance throughout the experiment

Press a button to continue