

MFM GROUP

Experimentation & Evaluation



Welcome page

Welcome to the Experiment!

Thank you for participating in our study on code readability. In this experiment, we aim to investigate whether the format of identifiers in source code affects reading speed and accuracy. Specifically, we are comparing two popular identifier styles: **camelCase** and **kebab-case**.

To better understanding, Kebab case is written like-this-for-example, so you have to put "-" instead of space. On the other hand, Camel case uses capitalization thatLooksLikeThis.

- camelCase → moveSouth, jumpHigh, ...
- kebabCase → move-south, jump-high, ...

What Will You Do?

You will be presented with a series of tasks where you need to identify the correct version of a phrase represented in code. Each task consists of:

- 1. A short sentence, such as "move south," displayed on the screen.
- 2. A set of identifiers using camelCase or kebab-case, along with some distractors.

Your goal is to quickly and accurately select the identifier that matches the sentence shown earlier.

How Will Your Responses Be Collected?

We will record:

- The time it takes for you to select the correct identifier.
- Whether your selection is correct or incorrect.

This data will be analyzed to understand if one identifier style is more effective than the other.

Instructions before starting

- 1. Please ensure you are in a quiet environment without distractions.
- 2. Read each sentence carefully.
- 3. Select the identifier that best matches the sentence.
- 4. Try to be as accurate and quick as possible.

What Data Will We Collect?

In addition to your answers, we will collect some **basic demographic information** (like your programming experience and familiarity with different identifier styles) to see if there are any correlations between demographics and performance.

Privacy Notice

Your responses will be kept anonymous and used strictly for research purposes. The collected data will be stored securely and will not be shared outside the research team.

Ready to Begin?

When you are ready, press the "Start" button to proceed to the demographics form. Thank you for your participation!

Sentences with distractors:

- 1) move north
 - KC → Distractors: **move-north**, move-source, mover-north, move-sound
 - CS → Distractors: **moveNorth**, moveSource, moverNorth, moveSound
- 2) jump high
 - KC → Distractors: **jump-high**, jump-height, jumb-high, jump-hug
 - CS → Distractors: jumpHigh, jumpHeight, jumbHigh, jumpHug
- 3) run fast
 - KC → Distractors: **run-fast**, fun-fast, run-past, ran-fast
 - CS → Distractors: runFast, funFast, runPast, ranFast
- 4) cook dinner
 - KC → Distractors: **cook-dinner**, book-dinner, look-dinner, cook-diner
 - CS → Distractors: **cookDinner**, bookDinner, lookDinner, cookDiner
- 5) build house
 - KC → Distractors: **build-house**, built-house, build-hose, burn-house
 - CS → Distractors: **buildHouse**, builtHouse, buildHose, burnHouse
- 6) close all windows
 - KC → Distractors: **close-all-windows**, chose-all-windows, close-gall-windows, close-gall-wind
 - CS → Distractors: **closeAllWindows**, choseAllWindows, closeGallWindows, closeAllWind
- 7) send a quick message
 - KC → Distractors: **send-a-quick-message**, sent-a-quick-message, send-a-quit-message, send-a-quack-message
 - CS → Distractors: **sendAQuickMessage**, sentAQuickMessage, sendAQuitMessage, sendAQuackMessage
- 8) eat a red apple
 - KC → Distractors: **eat-a-red-apple**, eat-a-read-apple, eat-a-reed-apple, aet-a-red-apple
 - CS → Distractors: **eatARedApple**, eatAReadApple, eatAReedApple, aetARedApple
- 9) scan the printed document
 - KC → Distractors: **scan-the-printed-document**, scam-the-printed-document, scan-the-printed-document
 - CS → Distractors: **scanThePrintedDocument**, scamThePrintedDocument, scanThePrintedDoctrine, scanThePrinterDocument
- 10) watch a new movie
 - KC → Distractors: **watch-a-new-movie**, wash-a-new-movie, watch-a-few-movie, watch-a-news-movie
 - CS → Distractors: **watchANewMovie**, washANewMovie, watchAFewMovie, watchANewsMovie