Rules for Naming a Variable

You've already learned three important rules:

No quotation marks around variable names.

□Cannot be a number or start with a number.

ECannot be a JavaScript keyword (like var, alert, let, const).

Now, let's go over the rest of the rules!

O Things You CANNOT Do

X No spaces in variable names.

```
var user name = "John"; // X INVALID (spaces not allowed)
```

X No special characters except \$ and _.

```
var user@name = "John"; // X INVALID var user-name = "John"; // X INVALID
```

Things You CAN Do

⊘ Use letters, numbers, underscores (_), and dollar signs (\$).

```
var userName = "Alice"; // 
var user_name = "Alice"; // 
var user$Name = "Alice"; // 
var user123 = "Alice"; // 
VALID
var user123 = "Alice"; // 
VALID
```

∀ You CAN use keywords as PART of a variable name.

```
var userAlert = "Hello!"; // \checkmark VALID (contains "alert", but not just "alert") var myVar = 100; // \checkmark VALID (contains "var", but not just "var")
```

✓ Capital letters are allowed, BUT be careful!

JavaScript is case-sensitive:

```
var rose = "Floribundas"; console.log(Rose); // X ERROR! (JavaScript treats "rose" and "Rose" as different variables)
```

M What is camelCase?

(F) A variable name starts in lowercase, and each new word starts with a capital letter.

v camelCase Examples:

var userResponse; var userResponseTime; var userResponseTimeLimit; var response;

∀ Why use camelCase?

- More readable than all lowercase (userresponsetime).
- **No spaces**, unlike user_response_time.
- **Less typing** than UserResponseTime.

☐ Why Use Descriptive Variable Names?

Writing **clear** variable names makes your code easier to understand!

⊘ Good Example:

```
var userName = "Alice";
var favoriteBreed = "Golden Retriever";
```

X Bad Example:

```
var x = "Alice";
var favBrd = "Golden Retriever";
```

Balance readability and conciseness!

A variable like:

var bestSupportingActressInADramaOrComedy = "Meryl Streep";

is **too long**! Instead, shorten it to:

var bestActress = "Meryl Streep";

★ Quick Summary

- **⊘** Use **letters**, **numbers**, **_**, **and** \$.
- **⊘** No spaces or special characters.
- **Case-sensitive** (SO userName ≠ UserName).
- **∜** Use camelCase (userResponseTime).
- **∀** Make names descriptive but not too long.