
JAVASCRIPT

VARIABLES

- Variables are containers for storing data values.
 - Variables named apple and AppLE are two different variables.
 - Variables must be identified with unique names.
 - Use 'let' when we will be changing the value of the variable. Use 'const' when you are sure that variable won't change.
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VARIABLES

The diagram illustrates the components of a variable declaration and assignment in a programming language. The code snippet `var firstName = 'Dean';` is shown with color-coded parts and labels. The word `var` is in dark blue. `firstName` is in light blue and is enclosed in an orange rectangular box labeled "Identifier" below it. The equals sign `=` is in dark blue. The string `'Dean'` is in orange and is enclosed in a dark blue rectangular box labeled "Assignment" above it. The word `Declaration` is in dark blue and is positioned above the `var` keyword. The entire diagram is set against a background of stylized, overlapping wave patterns in light gray.

Declaration

Assignment

`var firstName = 'Dean';`

Identifier

OPERATORS

➤ Used to assign values, compare values, perform arithmetic operations, and more.

Arithmetic	Assignment	String	Comparison	Logical
+	=	+	«==»	&&
-	+=	+=	«===»	
*	-=		!=	!
/	*=		!==	
%	/=		>	
++	%=		<	
			>=	
			<=	

CONDITIONAL STATEMENTS

- Use **if** to specify a block of code to be executed, if a specified condition is true.
- Use **else** to specify a block of code to be executed, if the same condition is false.
- Use **else if** to specify a new condition to test, if the first condition is false.
- Use **switch** to specify many alternative blocks of code to be executed.

➤

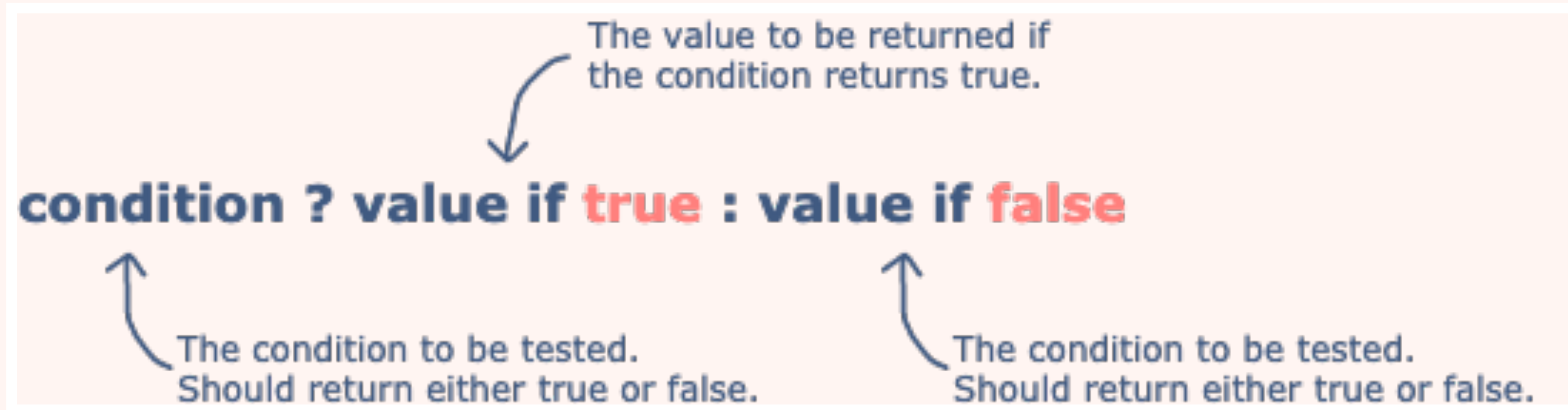
```
if (currentLesson === 1) {  
  console.log('This is our first lesson.');
```

```
} else if (currentLesson === 17) {  
  console.log('This is our last lesson');
```

```
} else {  
  console.log('This is our second lesson');
```

```
}
```

TERNARY OPERATOR



```
const currentLesson = 2;  
const totalLessons = 17;  
const isFinalLesson = currentLesson === totalLessons ? 'Yes, it is final' : 'No, it is not final';
```