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TYPES OF ERRORS IN JAVASCRIPT

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TYPES OF ERRORS IN JAVASCRIPT

There are different kinds of errors in JavaScript. These errors fall under 3 major types, which we will be looking at in this post.

The three errors are:

- **syntax errors**: occurs when the written code does not fit JavaScript context
- **runtime errors**: occurs when the code is run but something goes wrong
- **logical errors**: occurs when the syntax is correct but the **intended logic is wrong**

Let's look at code examples of each

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Syntax Errors

As you know in JavaScript, any operation you want to carry out has a syntax.

Declaring functions have a syntax. Creating variables have a syntax.

When you use an invalid syntax for an operation, JavaScript throws an error. For example:

```
function() {
  // code
}
```

```
// Error: Function statements
// require a function name
```

ERROR

As you see here, we use the wrong syntax for creating a function. So we get an error.

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Runtime Errors

Sometimes, the syntax may be correct, but something in the code can break. These kind of errors occur when you run the JavaScript code. It could be data from an API that breaks the application. Or something unexpected. For example:

```
function print() {
  console.logs("hello")
}

print()
```

```
// Error: console.logs is
// not a function
```

ERROR

The syntax here is correct, but there's no **logs** method on the **console** object. Attempting to run that gives an error.

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Logical Errors

The syntax for your code may be correct, but the logic may not be what you intend.

Maybe you create a function to sum two numbers, but you mistakenly code the function to multiply two numbers. That's a logical error. Let's see the code:

```
function sum(num1, num2) {
  return num1 * num2
}
```

```
sum(10, 20)
// 200
```

ERROR

Here, the syntax is correct, and the application does not break. But that's not the result we expect

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Developers often say that Logical Errors can be the most difficult to find and solve.

That's because, with syntax errors, you get an error in the console, so you know what's wrong.

With runtime errors two, the errors you get from the console can help you know what is wrong.

But with logical errors, there's no error in the console because JavaScript does not know that anything is wrong.

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