**Syntax, logical and runtime errors**

By the end of this reading, you'll be able to:

* Recognize common types of errors in JavaScript

Here are some of the most common errors in JavaScript:

* ReferenceError
* SyntaxError
* TypeError
* RangeError

There are some other errors in JavaScript. These other errors include:

* AggregateError
* Error
* InternalError
* URIError

However, in this reading I'll focus on the Reference, Syntax, Type, and Range errors.

**ReferenceError**

A ReferenceError gets thrown when, for example, one tries to use variables that haven't been declared anywhere.

An example can be, say, attempting to console log a variable that doesn't exist:

## SyntaxError

Any kind of invalid JavaScript code will cause a SyntaxError.

## TypeError

A TypeError is thrown when, for example, trying to run a method on a non-supported data type.

A simple example is attempting to run the **pop()** method on a string:

## RangeError

A RangeError is thrown when we're giving a value to a function, but that value is out of the allowed range of acceptable input values.

# Additional resources

Here is a list of resources that may be helpful as you continue your learning journey.

[MDN functions](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Statements/function)

[MDN try...catch](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Statements/try...catch)

[Iteration protocols](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Iteration_protocols)

[The Math object on MDN](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Math)

[The String object on MDN](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String)

[MDN JavaScript error reference](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Errors)

[The null value on MDN](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/null)

[The undefined property on MDN](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/undefined)