## **Operator Functions**

Let's learn how to create our own operators in ReasonML.

#### WE'LL COVER THE FOLLOWING ^

- The Logic
- The Template
- The Syntax

In Reason, we can use functions to create our own customized operators. The purpose of the operator will be defined within the function.

All the predefined in-fix operators can be used to create new in-fix operators. The same goes for prefix operators.

# The Logic #

Let's go back to operators for a bit. An operator is used with a value or values to produce an output. If we consider the operator symbol as the *function name* and the value(s) as *arguments*, an operator follows the conventions of a function.

In fact, operators *are* functions. This implies that we can create our own operators just like we can create our own functions.

## The Template #

Below, we can see that the template for creating operators is almost identical to that of functions:

```
let (operator) = (arguments) => expression;
```

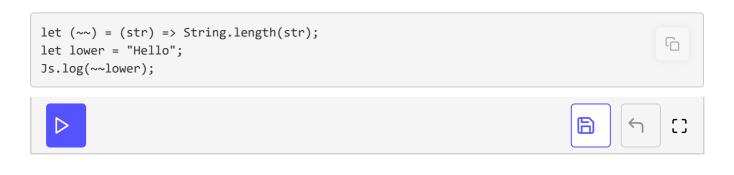
It is important to enclose the operator in parentheses.

# The Syntax #

Let's create the \*+ infix operator which converts an integer to a string and concatenates it to another string.

```
let (*+) = (str: string, n: int) => {
    str ++ string_of_int(n);
};
let x = "Educative " *+ 2019;
Js.log(x);
```

For the second example, we'll create the \_\_ pre-fix operator which computes the length of a string.



In the next lesson, we'll create **polymorphic functions**.