The Ternary Operator

In this lesson, we'll understand how the ternary operator serves as a substitute for the if-else expression.

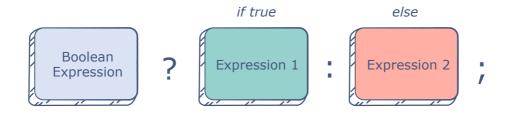
WE'LL COVER THE FOLLOWING

- The Structure
- Creating A Ternary Expression

Much like the if-else expression, the ternary operator is used when our condition has two possible outcomes. It is generally represented by the ?: characters.

The Structure

A ternary expression asks a question, and then presents two possible expressions to be executed:



The purpose of ternary expressions is to make code more concise and readable as compared to the if-else syntax.

Creating A Ternary Expression

To get started, we'll write a simple if-else expression in Reason:

```
let a : float = 10.56 *. 5.67;
let b : float = 10.67 *. 5.56;

let result = if (a < b) {
   10;
}</pre>
```

Nothing tricky going on here. Yet, a simple conditional is taking up about 6 lines of code! Let's refactor this code into ternary terms:

```
let a : float = 10.56 *. 5.67;
let b : float = 10.67 *. 5.56;

let result = (a < b) ? 10 : 20;
Js.log(result);</pre>
```

The benefit of the ternary operator is quite evident here. We've encapsulated a verbose conditional expression into a single line.

The ternary operator can also be used when the expression we are returning is longer than one line. However, this is not a popular practice.

```
let result = (10 < 20) ? {
  let c = 10;
  c * 49;
}: {
  let f = 80;
  f * 90;
};
Js.log(result);</pre>
```

As with all conditionals, we need to make sure that the type of returning expressions is the same, otherwise, we'll get a compilation error.

That brings us to the end of our discussion on conditionals. While we do have several conditionals available, Reason code relies usually on the switch expression due to its ability to handle several cases.

Check out the quiz in the next lesson to test your understanding of conditionals.