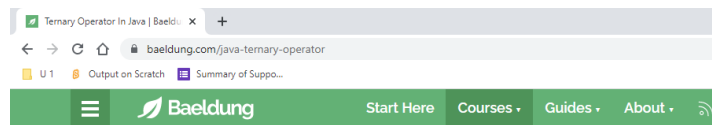


? Operator (aka Ternary Operator)

- Google “Ternary Operator Java”
- You will find some websites that have examples of how to use a ternary operator.
- **Read them** and see how it works. This page does NOT fully explain it.



2. Syntax

The ternary operator `?` in Java is **the only operator that accepts three operands**:

```
booleanExpression ? expression1 : expression2
```

The very first operand must be a *boolean* expression, and the second and third operands can be any expression that returns some value. The ternary construct returns *expression1* as an output if the first operand evaluates to *true*, *expression2* otherwise.

An example from <https://www.baeldung.com/java-ternary-operator> is shown below.

```
public class unicode
{
    public static void main (String[] args)
    {
        int num = 8;

        //Method 1, An If
        String msg = "";
        if (num > 10)
        {
            msg = "Number > 10";
        }
        else
        {
            msg = "Number <= 10";
        }
        System.out.println (msg);

        //Method 2, Ternary Operator
        String msg2 = num > 10 ? "Number > 10" : "Number <= 10";
        System.out.println (msg2);
    }
}
```