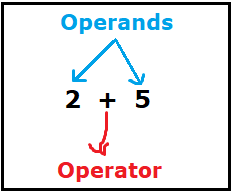
**JS operators**

Before knowing what JS operators are, we should first know what expressions mean in JS?

**Expression:** Is a valid combination of operators and operands; It contains two elements, they are **operators** and **operands**.

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**Example on valid and invalid expressions:**

**First:** **Valid Expressions:**

* 2 + 2
* 2 \* 2 + 2

**Second:** **Invalid Expressions:**

* + 2 2
* + 2 \* + 2

**Operator**: is a mathematical signs used to perform a mathematical operation on the given operand(s).

There are many types of operators;

The classification of these operators in any programming language is:

1. **Unary Operators:** accept only one operand.
2. **Binary Operators:** accept two operands.
3. **Ternary Operators:** accept three operands

The classification of these operators in JavaScript programming language is: (**LARABICS**)

|  |  |
| --- | --- |
| **Operator class** | **Operator** |
| [**L**ogical Operators](Logical%20operator.docx) | &&, || , ! |
| [**A**rithmetic Operators](Arithmetic%20Operators.docx) | Addition, subtraction, multiplication, division, and modulus. |
| [**R**elational Operators](comparison%20operators.docx) | Smaller than, greater than, greater or equal to, smaller or equal to, equal, not equal to, identical to, not identical to. |
| **A**ssignment Operators | = , SHA/AA: (+=, -=, \*=, /=) |
| **B**itwise Operators | &, |, ~, ^, >> , << |
| [**I**ncrement and Decrement Operators](Increment%20&%20Decrement%20Operators.docx) | ++ , -- |
| [**C**onditional Operator](Conditional%20operator.docx) | ?: |
| **S**pecial Operators | typeof, new, delete, comma etc. |
| **Press on each class above for more details** |

*Follow this link to know which operator is stronger than others* [Precedence & Associativity](Precedence%20&%20Associativity%20of%20operators.docx)

Note: operators are functions where operands in operators equivalent to Parameters / Arguments in function

**Note:** Mathematical operations automatically convert values to numbers