**JavaScript Type Conversion**

In programming, type conversion is the process of converting data of one [type](https://www.programiz.com/javascript/data-types) to another. For example, converting [string](https://www.programiz.com/javascript/string) data to [number](https://www.programiz.com/javascript/numbers).

There are two types of type conversion in JavaScript:

* **Implicit Conversion** - Automatic type conversion.
* **Explicit Conversion** - Manual type conversion.

## JavaScript Implicit Conversion

In certain situations, JavaScript automatically converts data of one type to another (to the right type). This is known as implicit conversion. For example,

// numeric string used with + gives string type

let result;

// convert number to string

result = "3" + 2;

console.log(result, "-", typeof(result));

result = "3" + true;

console.log(result, "-", typeof(result));

result = "3" + null;

console.log(result, "-", typeof(result));

**Output**

32 - string

3true - string

3null - string

In this example, we performed implicit type conversion using the + [operator](https://www.programiz.com/javascript/operators) with a string and another data type.

Here,

* "3" + 2 - Converts the number **2** to string and joins it to "3", resulting in the string "32".
* "3" + true - Converts the [boolean](https://www.programiz.com/javascript/booleans) true to string and joins it to "3", resulting in the string "3true".
* "3" + null - Converts [null](https://www.programiz.com/javascript/null-undefined) to string and joins it to "3", resulting in the string "3null".

**Note**: The [typeof](https://www.programiz.com/javascript/typeof) operator gives the data type of the variable.

## JavaScript Explicit Conversion

In explicit type conversion, you manually convert one type of data into another using [built-in functions](https://www.programiz.com/javascript/library). For example,

let result;

// convert string to number

result = Number("5");

console.log(result, "-", typeof(result));

// convert boolean to string

result = String(true);

console.log(result, "-", typeof(result));

// convert number to boolean

result = Boolean(0);

console.log(result, "-", typeof(result));

[Run Code](https://www.programiz.com/javascript/online-compiler)

**Output**

5 - number

true - string

false - boolean

Here,

* [Number("5")](https://www.programiz.com/javascript/numbers#function) changes the string "5" into the number **5**.
* [String(true)](https://www.programiz.com/javascript/string#function) turns the boolean true into the string "true".
* [Boolean(0)](https://www.programiz.com/javascript/booleans#function) converts the number **0** to the boolean false because **0** is considered a **falsy** value in JavaScript.