

# TYPE

# COERCION



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## Type conversion

🌱 Type conversion, also known as **typecasting**, means **converting data from one type to another type**.

🌱 There are **2** kinds of **type conversion** in JavaScript.

- ◆ **Explicit type conversion**
- ◆ **Implicit type conversion**



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# Explicit type conversion

- 🌱 The type of data will be changed manually. That is known as **explicit type conversion**.
- 🌱 We have to use **type methods** to convert the data types, like **Number()**, **String()**, **Boolean()**.

```
...  
Explicit Type Conversion  
  
let str = "55" //string  
let num = Number(str); //number  
console.log(typeof num, typeof str);  
//number string
```



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## Implicit type conversion

- 🌱 The process of **auto converting data types** from one type to another type is known as **implicit type conversion**.
- 🌱 This mechanism is known as **type coercion** in JavaScript.
- 🌱 The JavaScript engine **automatically converts the types of data from one type to another type** during the execution of the program, known as **type coercion**.



## Type coercion

- **str + num = str**
- **num + str = str**
- **str - num = num**
- **num - str = num**
- **str \* num = num**
- **num \* str = num**
- **str / num = num**
- **num / str = num**
- **bool + num = num**
- **num + bool = num**
- **str + bool = str**
- **bool + str = str**





## Type Coercion

```
console.log("10" + 10); //1010 str
```

```
console.log(10 + "10"); //1010 str
```

```
console.log("100" - 50); //50 number
```

```
console.log(100 - "50"); //50 number
```

```
console.log(3 * "2"); // 6 number
```

```
console.log("2" * 3); // 6 number
```

```
console.log(10 / "5"); // 2 number
```

```
console.log("10" / 5); // 2 number
```

```
console.log(true + 10); // 11 number
```

```
console.log(10 + "true"); // 10true str
```

```
console.log(false + "10"); // false10 str
```

```
console.log(10 + false); // 10 number
```





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