

TypeScript Boolean

```
If this site saves you hours of work, please

whitelist it in your ad blocker to

support us 
in creating more helpful and free content

in the future.
```

Summary: in this tutorial, you will learn about the TypeScript boolean data type and how to use the boolean keyword.

Introduction to the TypeScript boolean

The TypeScript boolean type has two values: true and false . The boolean type is one of the primitive types in TypeScript.

Declaring boolean variables

In TypeScript, you can declare a boolean variable using the boolean keyword. For example:

```
let pending: boolean;
pending = true;
// after a while
// ..
pending = false;
```

Boolean operator

To manipulate boolean values, you use the boolean operators. TypeScript supports common boolean operators:

Operator	Meaning
&&	Logical AND operator

Operator	Meaning
	Logical OR operator
!	Logical NOT operator

For example:

```
// NOT operator
const pending: boolean = true;
const notPending = !pending; // false
console.log(result); // false

const hasError: boolean = false;
const completed: boolean = true;

// AND operator
let result = completed && hasError;
console.log(result); // false

// OR operator
result = completed || hasError;
console.log(result); // true
```

Type annotations for boolean

As seen in previous examples, you can use the boolean keyword to annotate the types for the boolean variables:

```
let completed: boolean = true;
```

However, TypeScript often infers types automatically, so type annotations may not be necessary:

```
let completed = true;
```

Like a variable, you can annotate boolean parameters or return the type of a function using the boolean keyword:

```
function changeStatus(status: boolean): boolean {
   //...
}
```

Boolean Type

JavaScript has the Boolean type that refers to the non-primitive boxed object. The Boolean type has the letter B in uppercase, which is different from the boolean type.

It's a good practice to avoid using the **Boolean** type.

Summary

- TypeScript boolean type has two values true and false .
- Use the **boolean** keyword to declare boolean variables.
- Do not use **Boolean** type unless you have a good reason to do so.