Truthy Falsy Value

There are exactly **7 falsy values**:

| **Value** | **Description** |
| --- | --- |
| false | The Boolean false |
| 0 | Number zero |
| -0 | Negative zero |
| 0n | BigInt zero |
| "" | Empty string |
| null | Null value |
| undefined | Undefined |
| NaN | Not a Number |

All values **except the 7 falsy ones** are considered **truthy**.

Some common truthy values:

* true
* 1, -1, 3.14 (any non-zero number)
* "hello" (any non-empty string)
* [] (empty array)
* {} (empty object)
* function() {} (any function)
* Infinity, -Infinity

**To check**

console.log(Boolean(""));

let a = "Apple"; //truthy

      let age = 18; //truthy

      let newAge=0; //falsy

      let b = ""; //falsy

      let c = null; //falsy

      let d = "";

      var e; //falsy

      var f="Apple"-67;

**Short-Circuiting in JavaScript**

**Short-circuiting** is a behavior in JavaScript where **logical operators** (&&, ||) return a value **without evaluating all operands**, based on the **truthiness or falsiness** of the expressions.

**|| (OR) — Returns the first truthy value**

* If the first value is **truthy**, it returns that.
* Otherwise, it evaluates and returns the second.

let name = userInput || "Guest";

### && (AND) — ****Returns the first falsy value****

* If the first value is **falsy**, it returns that.
* Otherwise, it evaluates and returns the second.

console.log(true && 'yes'); // 'yes' (true is truthy)

console.log(0 && 'no'); // 0 (falsy)

console.log('hi' && null); // null (falsy)