

Truth, Equality and JavaScript

- `[1] == true` `// true`
- `[0] == false` `// true`
- `[2] == true` `// false`
- `[0,1] == true` `// false`
- `[''] == false` `// true`
- `"potato" == true` `// false`
- `"potato" == false` `// false`

条件运算符

ToBoolean算法

<i>Argument Type</i>	<i>Result</i>
Undefined	false
Null	false
Boolean	The result equals the input argument (no conversion).
Number	The result is false if the argument is +0 , -0 , or NaN ; otherwise the result is true .
String	The result is false if the argument is the empty String (its length is zero); otherwise the result is true .
Object	true .

- `new Boolean(false)` `// true`
- `new String("")` `// true`
- `new Number(NaN)` `// true`

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Type(x)	Values	Result
Type(x) different from Type(y)		false
Undefined or Null		true
Number	x same value as y (but not <u>NaN</u>)	true
String	x and y are identical characters	true
Boolean	x and y are both true or both false	true
Object	x and y reference same object	true
otherwise...		false

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<i>Type(x)</i>	<i>Type(y)</i>	<i>Result</i>
x and y are the same type		See Strict Equality (===) Algorithm
null	Undefined	true
Undefined	null	true
Number	String	$x == \text{toNumber}(y)$
String	Number	$\text{toNumber}(x) == y$
Boolean	(any)	$\text{toNumber}(x) == y$
(any)	Boolean	$x == \text{toNumber}(y)$
String or Number	Object	$x == \text{toPrimitive}(y)$
Object	String or Number	$\text{toPrimitive}(x) == y$
otherwise...		false

ToNumber	
Argument Type	Result
Undefined	NaN
Null	+0
Boolean	<p>The result is 1 if the argument is true.</p> <p>The result is +0 if the argument is false.</p>
Number	The result equals the input argument (no conversion).
String	<p>In effect evaluates <code>Number(string)</code></p> <p>"abc" -> NaN</p> <p>"123" -> 123</p>
Object	<p>Apply the following steps:</p> <ol style="list-style-type: none"> 1. Let <i>primValue</i> be <code>ToPrimitive(input argument, hint Number)</code>. 2. Return <code>ToNumber(primValue)</code>.

ToPrimitive

Argument Type	Result
Object	(in the case of equality operator coercion) if <u>valueOf</u> returns a primitive, return it. Otherwise if <u>toString</u> returns a primitive return it. Otherwise throw an error
otherwise...	The result equals the input argument (no conversion).

- "potato" == true;
- "potato" == 1;
- NaN == 1;

- `crazyNumeric = new Number(1);`
- `crazyNumeric.toString = function() {return "2"};`
- `crazyNumeric == 1;`
- `crazyNumeric.valueOf() // 1`
- `1 == 1 //true`

- `'' == 0 // true`
- `0 == '0' // true`
- `'' == '0' // false`

Unnecessary

- `if (typeof myVar === "function")`
- `if (myArray.length === 3)`

Blob类型

```
var blob = new Blob(["Hello World"], {type: "text/html"})
```


sizeof ?

```
> var json = {  
    'a': '1111',  
    'b': '2222',  
}
```

```
↳ undefined
```

```
> var blob = new Blob([JSON.stringify(json)])
```

```
↳ undefined
```

```
> blob
```

```
↳ ▼ Blob ⓘ  
    isClosed: false  
    size: 23  
    type: ""  
    ► __proto__: Blob
```

```
>
```

utf-8

- 000000 – 00007F 1
- 000080 – 0007FF 2
- 000800 – 00D7FF 3
- 00E000 – 00FFFFFF 3
- 010000 – 10FFFFFF 4

utf-16

- 000000 – 00FFFF 2
- 010000 – 10FFFF 4

str.charCodeAt(i)