

Conditional JavaScript – Checking Datatype



Because the JS variables are loosely typed the Developer at certain points may need to check what the datatype of the value is ...

The tests include the following ...

isArray

isFunction

isFinite

isInteger

isNaN

typeof

Conditional JavaScript – isArray



This checks whether the variable is an Array ...

```
var value = ["A", "B"]
```

```
if (Array.isArray(value))
```

```
    document.write ( "The value is an Array")
```

Conditional JavaScript – isFinite



This checks whether the variable holds a legal number, therefore its the opposite of testing for NaN and Infinity...

```
var value = 12
```

```
if (Number.isFinite(value))
```

```
    document.write ( "The value is legal number")
```

Conditional JavaScript – isInteger



This checks whether the variable holds a legal number which has no decimal places ...

```
var value = 12
```

```
if (Number.isInteger(value))  
    document.write ( "The value is an Integer")
```

```
var value2 = 12.2323
```

```
if (!Number.isInteger(value2))  
    document.write ( "The value is not an Integer")
```

Conditional JavaScript – Date.parse



There is no `isDate` method, therefore the Developer can use the `parse` method, this will return a false if it is unable to check the validity (as a date) of a variable ...

```
var value = "a string"
```

```
if (!Date.parse(value))
```

```
    document.write ( "The value is not a Date")
```

Conditional JavaScript – typeof



The `typeof` method returns the type it detects in the condition, which can be tested or in our examples printed out ...

```
var value = "a string"  
document.write (typeof(value))
```

string

```
var value = 12.78  
document.write (typeof(value))
```

number

Conditional JavaScript – typeof



Doesn't work well for dates or arrays ...

```
var value = Date()  
document.write (typeof(value))
```

string

```
var value = ["A", "B", "C"]  
document.write (typeof(value))
```

object

Conditional JavaScript – typeof



```
var value = true  
document.write (typeof(value))
```

boolean

```
var value  
document.write (typeof(value))
```

undefined

Conditional JavaScript – typeof



Note how typeof reports a null ...

```
var value = null
```

```
document.write (typeof(value))
```

```
object
```