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#Programming #JavaScript #js #date #invalid #text 2 more ...
```

[Edit] EN

# JavaScript - detecting invalid date



In this article, we're going to have a look at how to check if data is invalid in JavaScript.

Date correctness can be checked basing on internal state of Date object.

Incorrect date object returns:

- false for call isFinite(myDate),
- true for call isNaN(myDate),

• Invalid pate string for tostring() method call.



8 points







Quick solution:

```
var correctDate = new Date(2020, 10, 15);
var incorrectDate = new Date(NaN);

console.log( isFinite( correctDate ) ); // true
console.log( !isNaN( correctDate ) ); // true
console.log( isFinite( incorrectDate ) ); // false

console.log( !isNaN( incorrectDate ) ); // false
Run Auto running

Reset
```

Look below to see different practical examples:

### 1. Date object test example Edit

This approach bases on fact: isFinite method returns false for incorrect dates.

```
function isCorrectDate(date) {
1
2
        return date instanceof Date && isFinite(date);
3
        // return date instanceof Date && !isNaN(date);
5
    }
6
7
    // Usage example:
9
    var correctDate = new Date(2020, 10, 15);
10
    var incorrectDate = new Date(NaN);
11
12
    console.log( isCorrectDate( correctDate ) ); // true
13
    console.log( isCorrectDate( incorrectDate ) ); // false
             Auto running
  Run
                                                                                                    Reset
```

### 2. getTime() or other getter test example Edit

This approach bases on fact: incorrect date returns NaN values from getters. So we can make simple test for example with getTime() method.

```
function isCorrectDate(date) {
    return date instanceof Date && isFinite(date.getTime());

// return date instanceof Date && !isNaN(date.g

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// Usage example:

Ok, I understand
```

```
9 var correctDate = new Date(2020, 10, 15);
10 var incorrectDate = new Date(NaN);
11
12 console.log( isCorrectDate( correctDate ) ); // true
13 console.log( isCorrectDate( incorrectDate ) ); // false

Run Auto running

Reset
```

# 3. toString() method test example Edit

This approach is based on fact: incorrect date object returns "Invalid Date" string for toString() method call. It is good to call to string method with protoype API that prevents for methods overriding.

```
function isCorrectDate(date) {
2
        if (date instanceof Date) {
3
            var text = Date.prototype.toString.call(date);
4
            return text !== 'Invalid Date';
5
 6
        return false:
7
    }
8
9
    // Usage example:
10
    var correctDate = new Date(2020, 10, 15);
11
12
    var incorrectDate = new Date(NaN);
13
14
    console.log( isCorrectDate( correctDate ) ); // true
15
    console.log( isCorrectDate( incorrectDate ) ); // false
  Run
              Auto running
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```

#### 4. Detecting correct date string or date object example Edit

Example presented in this section allows to check correctness of date provided as string or object. String date should be formatetd according to one of the standards:

- IETF-compliant RFC 2822 timestamps,
- ISO 8601.

Run following code to see effect:

```
1
    function isCorrectDate(date) {
        return isFinite(date instanceof Date ? date : new Date(date));
2
 3
 Δ
        // return isFinite(date instanceof Date ? date : Date.parse(date));
 5
        // return !isNaN(date instanceof Date ? date : new Date(date));
 6
        // return !isNaN(date instanceof Date ? date : Date.parse(date));
7
    }
8
9
    // Usage example:
10
11
    var date1 = '2020-10-15';
    var date2 = '2020-10-x5'; // <----- incorrect date</pre>
12
    var date3 = 'This is not date'; // <-- incorrect date</pre>
13
14
    var date4 = new Date(2020, 10, 15);
15
    var date5 = new Date(NaN); // <---- incorrect date</pre>
16
    console.log( isCorrectDate( date1 ) ); // true
17
    console.log( isCorrectDate( date2 ) ); // false
18
19
    console.log( isCorrectDate( date3 ) ); // false
20
    console.log( isCorrectDate( date4 ) ); // true
21
    console.log( isCorrectDate( date5 ) ); // false
              Auto running
                                                                                                       Reset
  Run
```



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