

How can you check for a #hash in a URL using JavaScript?

Asked 10 years, 8 months ago Active 1 month ago Viewed 581k times



I have some jQuery/JavaScript code that I want to run only when there is a hash (#) anchor link in a URL. How can you check for this character using JavaScript? I need a simple catch-all test that would detect URLs like these:

735



- example.com/page.html#anchor
- example.com/page.html#anotheranchor



Basically something along the lines of:

148

```
if (thereIsAHashInTheUrl) {  
    do this;  
} else {  
    do this;  
}
```

If anyone could point me in the right direction, that would be much appreciated.

javascript

jquery

anchor

fragment-identifier

edited Jun 24 at 3:39



a stone arachnid

1,176 1 8 23

asked Nov 18 '08 at 11:35



Philip Morton

57.8k 36 81 93

18 Answers



Simple:

1318



```
if(window.location.hash) {  
    // Fragment exists  
} else {
```



```
// Fragment doesn't exist
}
```

edited Aug 30 '12 at 1:52

answered Nov 18 '08 at 11:37

**Gareth****95.8k**

29

138

149

39 Additional: the `.location` object is only available on the current window's URL, you can't do this for an arbitrary URL (e.g. one stored in a string variable) – [Gareth](#) Nov 18 '08 at 11:39

63 Also, location properties like `.hash` and `.query` are also available on `<a>` elements – [Gareth](#) Jul 30 '10 at 13:52

18 `.search` is available on an `<a>`, not `.query`. Sample jQuery: `$("<a/>").attr({ "href": "http://www.somewhere.com/a/b/c.html?qs=1#fragmenttest" })[0] .hash => "#fragmenttest" and .search = ?qs=1`. From there, hit up the [querystring extraction question](#) to get something other than a string. – [patridge](#) Jul 29 '11 at 16:48

2 @Gareth Yes, you're right. Just realized that the link I posted was for the `hashchange` event and not `window.location.hash`. Although the latter is not supported by IE < 8. – [hitaotodestruct](#) May 19 '13 at 6:37

4 `(new URL("http://www.yahoo.com/#hi")).hash` – [Muhammad Umer](#) Oct 7 '15 at 16:39



300



```
if(window.location.hash) {
    var hash = window.location.hash.substring(1); //Puts hash in variable, and removes
the # character
    alert (hash);
    // hash found
} else {
    // No hash found
}
```

edited Jun 1 '16 at 13:07

answered Jul 13 '11 at 16:46

**Martijn****12.6k**

3

22

56

**Mark Notton****3,587**

2

15

22



Put the following:

51

```
<script type="text/javascript">
    if (location.href.indexOf("#") != -1) {
```

```

    }
    // Your code in here accessing the string like this
    // location.href.substr(location.href.indexOf("#"))
  }
</script>

```

edited Sep 6 '12 at 15:35



saluce

10.4k 2 43 61

answered Nov 18 '08 at 11:41



José Leal

4,531 6 30 52

- 1 Thanks, window.location.hash only has a value if there is a value following the #. for example. //www.example.com# returns " " when checking the hash. – [Jessycormier](#) Feb 16 '17 at 12:42

If the URI is not the document's location this snippet will do what you want.

29

```

var url = 'example.com/page.html#anchor',
    hash = url.split('#')[1];

if (hash) {
    alert(hash)
} else {
    // do something else
}

```

answered Mar 8 '12 at 10:42



Marc Diethelm

979 1 10 15

+1 for Javascript not knowing what out of bounds is :) – [Dunc](#) Aug 19 '14 at 20:04

- 2 @Dunc: Well JS arrays are basically Objects. Accessing them by index is like accessing an Object property like so: `obj['0']` . In JS this is true: `arr[0] === arr['0']` Therefore if the index/key doesn't exist the returned value is undefined instead of out of bounds. jsfiddle.net/web5me/Mw376 – [Marc Diethelm](#) Oct 30 '14 at 11:48

Have you tried this?

18

```
if (url.indexOf("#") != -1)
{
}
```

(Where `url` is the URL you want to check, obviously.)

answered Nov 18 '08 at 11:37



[Jon Skeet](#)

1124k 713 8168
8568

15

```
$('#myanchor').click(function(){
    window.location.hash = "myanchor"; //set hash
    return false; //disables browser anchor jump behavior
});
$(window).bind('hashchange', function () { //detect hash change
    var hash = window.location.hash.slice(1); //hash to string (= "myanchor")
    //do sth here, hell yeah!
});
```

This will solve the problem ;)

answered Aug 31 '11 at 13:44



[Oral ÜNAL](#)

185 1 13

Liked this answer coz of mixing JS+JQ, cross-browser and simple solution, already implemented this approach. – [Arthur Kushman](#) Aug 7 '16 at 16:27

12

`window.location.hash`

will return the hash identifier

answered Apr 27 '13 at 18:31

[user2327502](#)



Short and clean, is perfect – [Jam](#) Dec 6 '17 at 10:32

...or there's a jquery selector:

10 `$('a[href^="#"]')`

answered Apr 19 '12 at 13:18



[BaronVonKaneHoffen](#)

1,063 1 12 18

Here's what you can do to periodically check for a change of hash, and then call a function to process the hash value.

6

```
var hash = false;
checkHash();

function checkHash(){
    if(window.location.hash != hash) {
        hash = window.location.hash;
        processHash(hash);
    } t=setTimeout("checkHash()",400);
}

function processHash(hash){
    alert(hash);
}
```

answered Jul 5 '10 at 22:23




[Emmanuel](#)

3,202 5 32 58

10 thats only nessessary in ie 6 + 7. Al other browsers have included the onhashchange event – [Tokimon](#) Mar 25 '11 at 12:44

@Tokimon - great! I didn't know that. But I guess we've still got to support those old versions of IE – [Emmanuel](#) Mar 26 '11 at 8:57

- 1 Yeah sadly... Even IE 8 wont go away soon as IE 9 is not supported on XP :(– [Tokimon](#) Apr 5 '11 at 22:52
- 1 [modernizr.com](#) implements the hashchange event on older browsers (along with a bunch of other modern features) – [guigouz](#) Nov 27 '11 at 15:41
- 4 This is not a recommended code at all: it should at least be: `setTimeout(checkHash, 400)` . Plus, modern browsers have the `hashchange` event so you can do a `window.addEventListener('hashchange', function(){ ... })` . Finally, leaking the global `hash` variable is another non-recommended practice, even for an exemple. – [Oncle Tom](#) Dec 10 '13 at 23:04 

Most people are aware of the URL properties in `document.location`. That's great if you're only interested in the current page. But the question was about being able to parse anchors on a page not the page itself.

5

What most people seem to miss is that those same URL properties are also available to anchor elements:

```
// To process anchors on click
jQuery('a').click(function () {
    if (this.hash) {
        // Clicked anchor has a hash
    } else {
        // Clicked anchor does not have a hash
    }
});

// To process anchors without waiting for an event
jQuery('a').each(function () {
    if (this.hash) {
        // Current anchor has a hash
    } else {
        // Current anchor does not have a hash
    }
});
```

answered Sep 5 '13 at 17:32



[Nicholas Davison](#)

51 1 1

4

```
function getHash() {
    if (window.location.hash) {
        var hash = window.location.hash.substring(1);
```

```

    if (hash.length === 0) {
        return false;
    } else {
        return hash;
    }
} else {
    return false;
}
}

```

edited May 23 '14 at 9:27



jokklan

3,145 12 34

answered Jun 7 '13 at 23:58



user2465270

41 1

3 Should that not be "hash.length" as opposed to "hash.length()"? :) – [Nathan Pitman](#) Dec 18 '13 at 22:20

2 Please don't add code-only answers. – [Daniel W.](#) Nov 14 '14 at 12:51

Partridge and Gareths comments above are great. They deserve a separate answer. Apparently, hash and search properties are available on any html Link object:

3

```

<a id="test" href="foo.html?bar#quz">test</a>
<script type="text/javascript">
    alert(document.getElementById('test').search); //bar
    alert(document.getElementById('test').hash); //quz
</script>

```

Or

```

<a href="bar.html?foo" onclick="alert(this.search)">SAY FOO</a>

```

Should you need this on a regular string variable and happen to have jQuery around, this should work:

```

var mylink = "foo.html?bar#quz";

if ($('#<a href="'+mylink+'"'>').get(0).search=='bar') {
    // do stuff
}

```

(but its maybe a bit overdone ..)

edited Dec 8 '12 at 4:08



McGarnagle

88.4k 24 193 238

answered Feb 20 '12 at 22:42



commonpike

5,807 1 44 50



```
var requestedHash = ((window.location.hash.substring(1).split("#",1))+"?").split("?",1);
```

3



edited Jul 6 '13 at 10:57



Yotam Omer

13.5k 10 49 60

answered Jul 6 '13 at 10:37



Graham

211 2 3



3



Throwing this in here as a method for abstracting location properties from arbitrary URI-like strings. Although `window.location` instanceof `Location` is true, any attempt to invoke `Location` will tell you that it's an illegal constructor. You can still get to things like `hash`, `query`, `protocol` etc by setting your string as the `href` property of a DOM anchor element, which will then share all the address properties with `window.location`.

Simplest way of doing this is:

```
var a = document.createElement('a');
a.href = string;

string.hash;
```

For convenience, I wrote a little library that utilises this to replace the native `Location` constructor with one that will take strings and produce `window.location` -like objects: [Location.js](#)

answered Sep 10 '13 at 13:58



Barney

13.8k 4 42 66



Usually clicks go first than location changes, so after a click is a good idea to `setTimeout` to get updated `window.location.hash`

1

```

$(".nav").click(function(){
    setTimeout(function(){
        updatedHash = location.hash
    },100);
});

```

or you can listen location with:

```

window.onhashchange = function(evt){
    updatedHash = "#" + evt.newURL.split("#")[1]
};

```

I wrote a [jQuery plugin](#) that does something like what you want to do.

It's a simple anchor router.

edited Jun 21 '12 at 14:18



HackedByChinese

38.4k 8 122 137

answered Jun 20 '12 at 18:18



Rolando

121 1 3

Here is a simple function that returns true or false (has / doesn't have a hashtag):

0

```

var urlToCheck = 'http://www.domain.com/#hashtag';

function hasHashtag(url) {
    return (url.indexOf("#") != -1) ? true : false;
}

// Condition
if(hasHashtag(urlToCheck)) {
    // Do something if has
}
else {
    // Do something if doesn't
}

```

Returns true in this case.

Based on @jon-skeet's comment.

answered Nov 29 '15 at 11:22



dnns

152 2 9

▲ This is a simple way to test this for the current page URL:

0

```
function checkHash(){  
    return (location.hash ? true : false);  
}
```

answered Jul 18 '18 at 9:31



aabirop

547 1 8 18

▲ sometimes you get the full query string such as "#anchorlink?firstname=mark"

-2

this is my script to get the hash value:

```
var hashId = window.location.hash;  
hashId = hashId.match(/#[^?&\/*]/g);
```

returns -> *#anchorLink*

answered Oct 27 '14 at 8:45



markg

91 1 6

-
- 5 Not possible as hash is appended after the query string and is never sent to server. The only time hash would appear before query string is when you modified the url by hand. – user1537415 Dec 6 '14 at 18:52
-
- 1 yep, but sometimes people send urls on this format. this is just so you can get only the hash value and neglect the others. :) – markg Jul 27 '15 at 8:43
-

