

# Get viewport size (width and height) with javascript

Posted by Andy Langton on Tuesday, 4 December 2007

While [finding out monitor resolution with javascript](#) can be useful for statistics and certain other applications, often the need is to determine how much space is available within the browser window.

Space within the browser window is known as the 'viewport' affected by the monitor resolution, how many toolbars are in use within the browser and whether the browser is in full screen or windowed mode.

The method to get this size is different with [IE6](#) and below to Opera and Mozilla and its variants (no surprises there!). Unfortunately, there's no way to get the viewport information in 'quirks mode' with [IE6](#) (see [this article](#) to find out how to ensure standards compliant mode in [IE](#)).

The script below will store the viewport width and height in the variables *viewportwidth* and *viewportheight* and write them to the page.

## The long version

```
1  <script type="text/javascript">                                     ?
2  <!--
3
4  var viewportwidth;
5  var viewportheight;
6
7  // the more standards compliant browsers (mozilla/netcape/opera/IE7) use window.
8
9  if (typeof window.innerWidth != 'undefined')
10 {
11     viewportwidth = window.innerWidth,
12     viewportheight = window.innerHeight
13 }
14
15 // IE6 in standards compliant mode (i.e. with a valid doctype as the first line in
16
17 else if (typeof document.documentElement != 'undefined'
18     && typeof document.documentElement.clientWidth !=
19     'undefined' && document.documentElement.clientWidth != 0)
20 {
21     viewportwidth = document.documentElement.clientWidth,
22     viewportheight = document.documentElement.clientHeight
23 }
24
```

```

25 // older versions of IE
26
27 else
28 {
29     viewportwidth = document.getElementsByTagName('body')[0].clientWidth,
30     viewportheight = document.getElementsByTagName('body')[0].clientHeight
31 }
32 document.write('<p>Your viewport width is '+viewportwidth+'x'
33 +viewportheight+'</p>');
34 <!-->
    </script>

```

## The Script in Action

Your viewport width is 1366x438.

## Shorter versions

Various commenters have proposed shortened versions of the code.

**As a function** (thanks to [Bryan Price](#)):

```

1 <b><script type="text/javascript">
2 <!--
3 function viewport()
4 {
5     var e = window
6     , a = 'inner';
7     if ( !( 'innerWidth' in window ) )
8     {
9         a = 'client';
10    e = document.documentElement || document.body;
11    }
12    return { width : e[ a+'Width' ] , height : e[ a+'Height' ] }
13    }
14    <!-->
15    </script>
16    </b>

```

**Just return variables** (thanks to elstcb). This leaves the width in variable x and the height in variable y.:

```

1 <b><script type="text/javascript">
2 <!--
3 var w=window,d=document,e=d.documentElement,g=d.getElementsByTagName(
4 'body')[0],x=w.innerWidth||e.clientWidth||
5 g.clientWidth,y=w.innerHeight||e.clientHeight||g.clientHeight;
6 <!-->
    </script>
    </b>

```

**Category:**

[Development](#)