

# JavaScript Browser Object:

## JavaScript Navigator Object

The **JavaScript navigator object** is used for browser detection. It can be used to get browser information such as appName, appCodeName, userAgent etc.

The navigator object is the window property, so it can be accessed by:

`window.navigator`

## Property of JavaScript navigator object

There are many properties of navigator object that returns information of the browser.

No.	Property	Description
1	appName	returns the name
2	appVersion	returns the version
3	appCodeName	returns the code name
5	userAgent	returns the user agent
6	language	returns the language. It is supported in Netscape and Firefox only.
7	userLanguage	returns the user language. It is supported in IE only.
9	systemLanguage	returns the system language. It is supported in IE only.
11	platform	returns the platform e.g. Win32.
12	Online	returns true if browser is online otherwise false.

```
<html>

<body>

<h2>JavaScript Navigator Object</h2>

<script>

document.writeln("<br/>navigator.appCodeName:"+navigator.appCodeName);

document.writeln("<br/>navigator.appName: "+navigator.appName);

document.writeln("<br/>navigator.appVersion: "+navigator.appVersion);

document.writeln("<br/>navigator.cookieEnabled:"+navigator.cookieEnabled);

document.writeln("<br/>navigator.language: "+navigator.language);

document.writeln("<br/>navigator.userAgent: "+navigator.userAgent);

document.writeln("<br/>navigator.platform: "+navigator.platform);

document.writeln("<br/>navigator.onLine: "+navigator.onLine);


</script>

</body>

</html>
```

### Output:

JavaScript Navigator Object

```
navigator.appCodeName: Mozilla
navigator.appName: Netscape
navigator.appVersion: 5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36
(KHTML, like Gecko) Chrome/86.0.4240.75 Safari/537.36
navigator.cookieEnabled: true
navigator.language: en-US
```

navigator.userAgent: Mozilla/5.0 (Windows NT 10.0; Win64; x64)  
AppleWebKit/537.36 (KHTML, like Gecko) Chrome/86.0.4240.75 Safari/537.36  
navigator.platform: Win32  
navigator.onLine: true

## JavaScript Screen Object

The **JavaScript screen object** holds information of browser screen. It can be used to display screen width, height, colorDepth, pixelDepth etc.

### Property of JavaScript Screen Object

There are many properties of screen object that returns information of the browser.

No.	Property	Description
1	Width	returns the width of the screen
2	Height	returns the height of the screen
3	availWidth	returns the available width
4	availHeight	returns the available height
5	colorDepth	returns the color depth
6	pixelDepth	returns the pixel depth.

Example:

```
<html>
<body>
<script>
document.writeln("<br/>screen.width: "+screen.width);
document.writeln("<br/>screen.height: "+screen.height);
```

```
document.writeln("<br/>screen.availWidth: "+screen.availWidth);  
document.writeln("<br/>screen.availHeight: "+screen.availHeight);  
document.writeln("<br/>screen.colorDepth: "+screen.colorDepth);  
document.writeln("<br/>screen.pixelDepth: "+screen.pixelDepth);  
  
</script>  
  
</body>  
  
</html>
```

Output:

```
screen.width: 1366  
screen.height: 768  
screen.availWidth: 1366  
screen.availHeight: 728  
screen.colorDepth: 24  
screen.pixelDepth: 24
```

## Window Object

The **window object** represents a window in browser. An object of window is created automatically by the browser.

Window is the object of browser, **it is not the object of javascript**. The javascript objects are string, array, date etc.

## Methods of window object

The important methods of window object are as follows:

Method	Description
alert()	displays the alert box containing message with ok button.
confirm()	displays the confirm dialog box containing message with ok and cancel button.
prompt()	displays a dialog box to get input from the user.
open()	opens the new window.

close()	closes the current window.
setTimeout()	performs action after specified time like calling function, evaluating expressions etc.

## JavaScript History Object

The **JavaScript history object** represents an array of URLs visited by the user. By using this object, you can load previous, forward or any particular page.

The history object is the window property, so it can be accessed by:

1. window.history

### Property of JavaScript history object

There are only 1 property of history object.

No.	Property	Description
1	Length	returns the length of the history URLs.

### Methods of JavaScript history object

There are only 3 methods of history object.

No.	Method	Description
1	forward()	loads the next page.
2	back()	loads the previous page.
3	go()	loads the given page number.

## Example of history object

Let's see the different usage of history object.

1. `history.back();`//for previous page
2. `history.forward();`//for next page
3. `history.go(2);`//for next 2nd page
4. `history.go(-2);`//for previous 2nd page