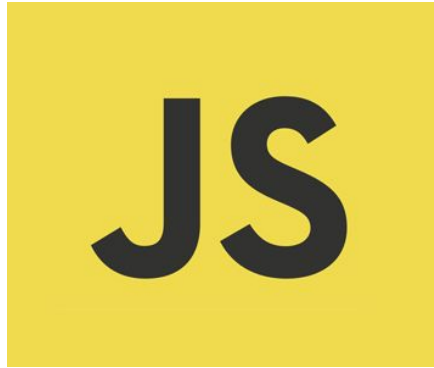


# Lecture 4.1



Window

# Topics

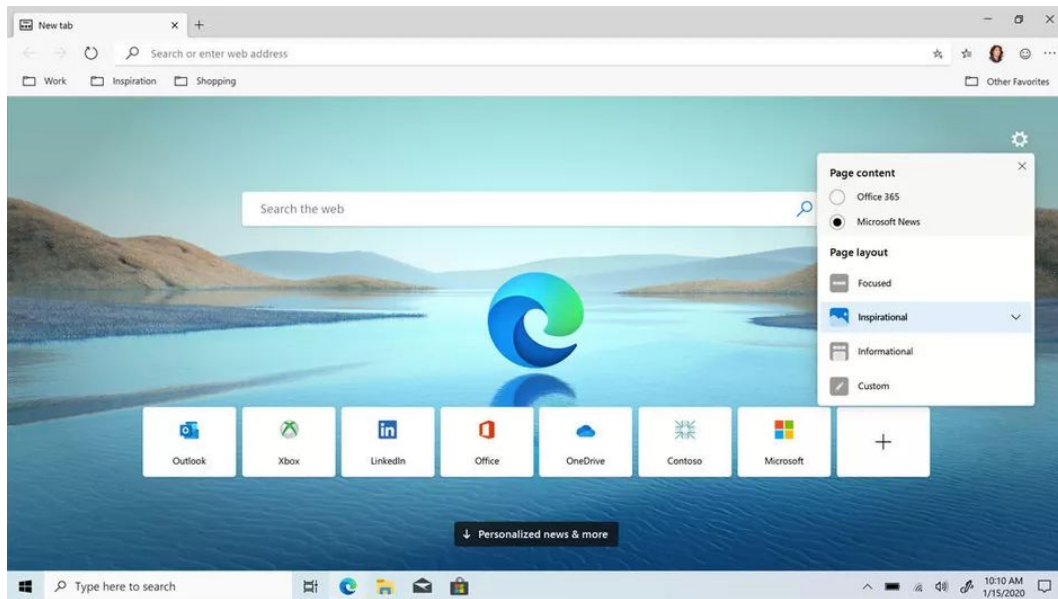
- **Intro to the DOM**

**Window**

# Window Interface

The **Window** interface represents a window containing a DOM document; the document property points to the DOM document loaded in that window.

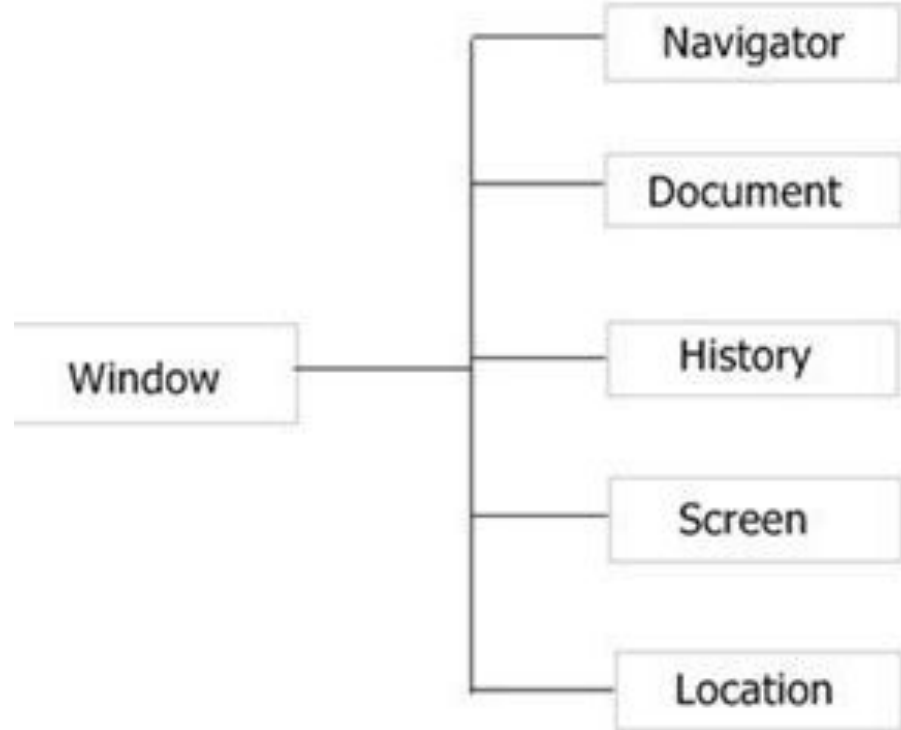
A global variable, `window`, representing the window in which the script is running, is exposed to JavaScript code.



# Window Object

The Window object is used to open a window in a browser to display the Web page.

The following figure shows the Window object in the hierarchy of Browsers objects.



# **Window Object Properties**

# console

The **Window.console** property returns a reference to the **Console** object, which provides methods for logging information to the browser's console. These methods are intended for debugging purposes only and should not be relied on for presenting information to end users.

```
console.log("An error occurred while loading the content");
```

# document

**window.document** returns a reference to the **document** contained in the window.



```
console.log(window.document.title);
```



# Inner Height and Width

The read-only [Window](#) property **innerWidth** returns the interior width of the window in pixels.

```
let intViewportWidth = window.innerWidth;
```

The read-only **innerHeight** property of the [Window](#) interface returns the interior height of the window in pixels, including the height of the horizontal scroll bar, if present.

```
let intViewportHeight = window.innerHeight;
```

# window.isFullScreen

The **fullScreen** property of the Window interface indicates whether the window is displayed in full screen mode or not.

A boolean. Possible Values:

- true: The window is in full screen mode.
- false: The window is not in full screen mode.

```
if (window.fullScreen) {  
    // it's fullscreen!  
}  
else {  
    // not fullscreen!  
}
```

# window.scrollbars

The **Window.scrollbars** property returns the scrollbars object, whose visibility can be checked.

The following complete HTML example shows how the visible property of the scrollbars object is used.

```
<script>  
  let visibleScrollbars = window.scrollbars.visible;  
</script>
```

# window.history

The **Window.history** read-only property returns a reference to the [History](#) object, which provides an interface for manipulating the browser *session history* (pages visited in the tab or frame that the current page is loaded in).

```
history.back();    // equivalent to clicking back button  
history.go(-1);    // equivalent to history.back();
```

# **Window Object Methods**

# Window Location Methods

The `window.location` object can be used to get information on the current page address (URL) and to redirect the browser to a new page.

- `window.location.href` returns the href (URL) of the current page
- `window.location.hostname` returns the domain name of the web host
- `window.location.host` returns both the host name and any associated port
- `window.location.pathname` returns the path and filename of the current page
- `window.location.protocol` returns the web protocol used (http: or https:)
- `window.location.assign()` loads a new document

# Window Open Method

The [Window](#) interface's **open()** method loads the specified resource into the new or existing browsing context (window, [iframe](#) or tab) with the specified name.

If the name doesn't exist, then a new browsing context is opened in a new tab or a new window, and the specified resource is loaded into it.

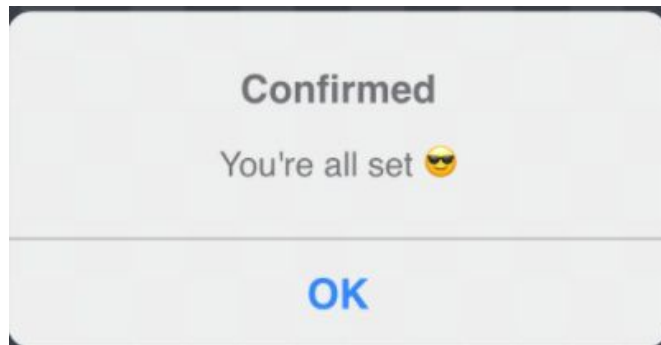
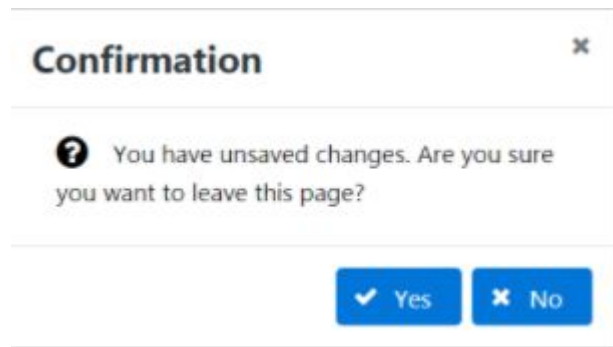
```
var window = window.open(url, windowName, [windowFeatures]);
```

# Popup Boxes

Popup boxes (or dialog boxes) are modal windows used to notify or warn the user, or to get input from the user.

Popup boxes prevent the user from accessing other aspects of a program until the popup is closed, so they should not be overused.

There are three different kinds of popup methods used in JavaScript: [window.alert\(\)](#), [window.confirm\(\)](#) and [window.prompt\(\)](#).





# Window **Alert** Method

The [alert method](#) displays messages that don't require the user to enter a response. Once this function is called, an alert dialog box will appear with the specified (optional) message. Users will be required to confirm the message before the alert goes away.

```
window.alert("Hello world!");  
alert("Hello world!");
```



# Window **Confirm** Method

The [confirm method](#) is similar to `window.alert()`, but also displays a cancel button in the popup. The buttons return boolean values: true for OK and false for Cancel.

```
var result = window.confirm('Are you sure?');  
if (result === true) {  
    window.alert('Okay, if you're sure.');} else {  
    window.alert('You seem uncertain.');}
```



# Window Prompt Method

The [prompt method](#) is typically used to get text input from the user. This function can take two arguments, both of which are optional: a message to display to the user and a default value to display in the text field.

```
var age = prompt('How old are you?', '100');
```

