JavaScript fundamentals

Built-in objects

Window

Window methods

Method	Description
addEventListener()	Attaches an event handler to the window
alert()	Displays an alert box with a message and an OK button
atob()	Decodes a base-64 encoded string
blur()	Removes focus from the current window
btoa()	Encodes a string in base-64
clearInterval()	Clears a timer set with setInterval()
clearTimeout()	Clears a timer set with setTimeout()
close()	Closes the current window
confirm()	Displays a dialog box with a message and an OK and a Cancel button
focus()	Sets focus to the current window

Window methods

getComputedStyle()	Gets the current computed CSS styles applied to an element
getSelection()	Returns a Selection object representing the range of text selected by the user
matchMedia()	Returns a MediaQueryList object representing the specified CSS media query string
moveBy()	Moves a window relative to its current position
moveTo()	Moves a window to the specified position
open()	Opens a new browser window
print()	Prints the content of the current window
prompt()	Displays a dialog box that prompts the visitor for input
removeEventListener()	Removes an event handler from the window

Window methods

[removeEventListener()](#)	Removes an event handler from the window
requestAnimationFrame()	Requests the browser to call a function to update an animation before the next repaint
[resizeBy()](#)	Resizes the window by the specified pixels
[resizeTo()](#)	Resizes the window to the specified width and height
[scrollBy()](#)	Scrolls the document by the specified number of pixels
[scrollTo()](#)	Scrolls the document to the specified coordinates
[setInterval()](#)	Calls a function or evaluates an expression at specified intervals (in milliseconds)
[setTimeout()](#)	Calls a function or evaluates an expression after a specified number of milliseconds
[stop()](#)	Stops the window from loading

Interaction: alert, prompt and confirm

- The `alert` function shows a message and waits for the user to press "OK".

```
alert("Hello");
```

- The `prompt` function shows a modal window with a text message, an input field for the visitor, and the buttons OK/Cancel.

```
result = prompt(title, [default]);
```

- The function `confirm` shows a modal window with a `question` and two buttons: OK and Cancel.

```
result = confirm(question);
```

setInterval() and clearInterval

- It runs the function regularly after the given interval of time.

Syntax
```
let timerId = setInterval(func|code, [delay], [arg1], [arg2],
...);
```

```
// repeat with the interval of 2 seconds
let timerId = setInterval(() => alert('tick'), 2000);

// after 5 seconds stop
setTimeout(() => { clearInterval(timerId); alert('stop'); },
5000);
```

setTimeout() and clearTimeout()

- Allows to run a function once after the interval of time

Syntax

```
let timerId = setTimeout(func|code, [delay], [arg1], [arg2], ...);
clearTimeout(timerId);
```

```
function sayHi(phrase, who) {
    alert( phrase + ', ' + who );
}

setTimeout(sayHi, 1000, "Hello", "John"); // Hello, John
```