

# Browser Object Model (BOM) - JavaScript

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This document contains a structured overview of the Browser Object Model (BOM) in JavaScript. It was taught in a live session with the students of Batch 05 to provide insight on how JavaScript interacts with the browser environment.

## Window Object

- window.innerHeight - Viewport height
- window.innerWidth - Viewport width
- window.open() - Open a new window
- window.close() - Close current window
- window.moveTo(x, y) - Move window
- window.resizeTo(w, h) - Resize window
- window.scrollTo(x, y) - Scroll to position
- window.setTimeout() - Delay a function
- window.setInterval() - Repeat function at intervals

## Screen Object

- screen.width - Full screen width
- screen.height - Full screen height
- screen.availWidth - Width excluding taskbar
- screen.availHeight - Height excluding taskbar
- screen.colorDepth - Color bits per pixel
- screen.pixelDepth - Pixel depth

## Location Object

- window.location.href - Full URL
- window.location.hostname - Domain name
- window.location.pathname - Path and file
- window.location.protocol - Protocol (http/https)
- window.location.assign(url) - Navigate to URL
- window.location.reload() - Reload the page
- window.location.replace(url) - Replace current with new URL

## History Object

- history.back() - Go back one page
- history.forward() - Go forward one page
- history.go(n) - Go to specific page in history stack

## Navigator Object

- navigator.appName - Browser name
- navigator.appCodeName - Browser code name
- navigator.platform - OS platform
- navigator.cookieEnabled - Cookies enabled?
- navigator.product - Engine name
- navigator.appVersion - Version info
- navigator.userAgent - Full browser info
- navigator.language - Language
- navigator.onLine - Online status
- navigator.javaEnabled() - Java support status

## Popup Boxes

- alert("Message") - Alert box

- `confirm("Message")` - Confirm box
- `prompt("Message", "Default")` - Prompt box for input