



SLIDE

Browser API, BOM vs DOM



PROGRAMMING HERO

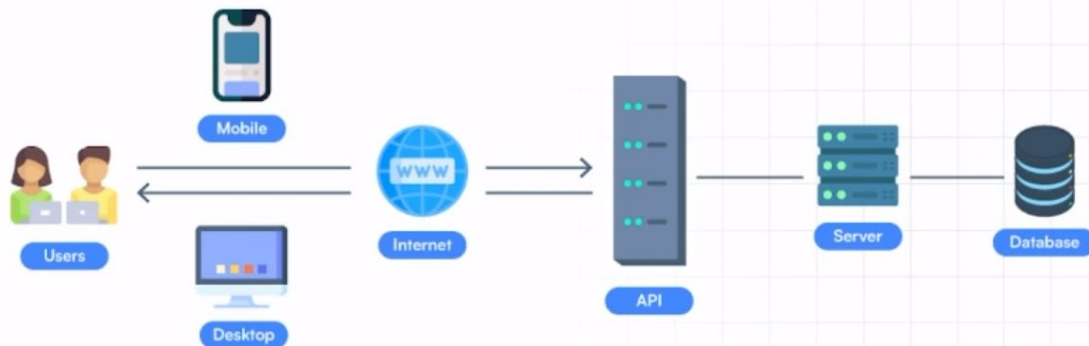


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API – Application Programming Interface

A set of protocols and definitions that allows communication between two applications.



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Different types of API

- **Web APIs:** An application programming interface for the Web
- **Browser APIs:** Extend the functionality of a web browser
- **Server APIs:** Extend the functionality of a web server
- **Third Party APIs:** are not built into your browser
 - ✓ YouTube API
 - ✓ Twitter API
 - ✓ Facebook API



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Categories of Browser APIs

1) **Storage APIs:** Give the ability to store data on the client-side

- ✓ Cookies
- ✓ Local Storage
- ✓ Session Storage
- ✓ Indexed DB



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Categories of Browser APIs

2) Fetch API:

- ✓ Makes asynchronous HTTP requests to a server
- ✓ Response format can be JSON, plain text, or XML
- ✓ Replacement for old XHR



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Categories of Browser APIs

3) Form Data API:

- ✓ Constructs a set of key/value pairs
- ✓ Represents form fields & values.



Programmieren mit JavaScript



Categories of Browser APIs

4) **Drag-and-Drop API:** Helps to implement drag and drop feature and build image upload system.

- ✓ Drag and Drop API
- ✓ File Reader API



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Categories of Browser APIs

- 5) **DOM API:** Allows to manipulate HTML and CSS in creating, removing, and also dynamically applying new styles to your page.
- 6) **Geolocation API:** Helps to find out the geographical location of an user.
- 7) **Canvas API:** Supports the creation of graphics using JavaScript and HTML.
- 8) **Notification API:** Helps to display desktop notifications to users.
- 9) **History API:** Uses the `history.pushState()` method.



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Categories of Browser APIs

10) **Audio & Video APIs:** Can manage, display, and create different media types.

- ✓ Web Audio API
- ✓ WebRTC (Web Real-Time Communication) API
- ✓ HTML Media Element
- ✓ Media Capture and Streams API



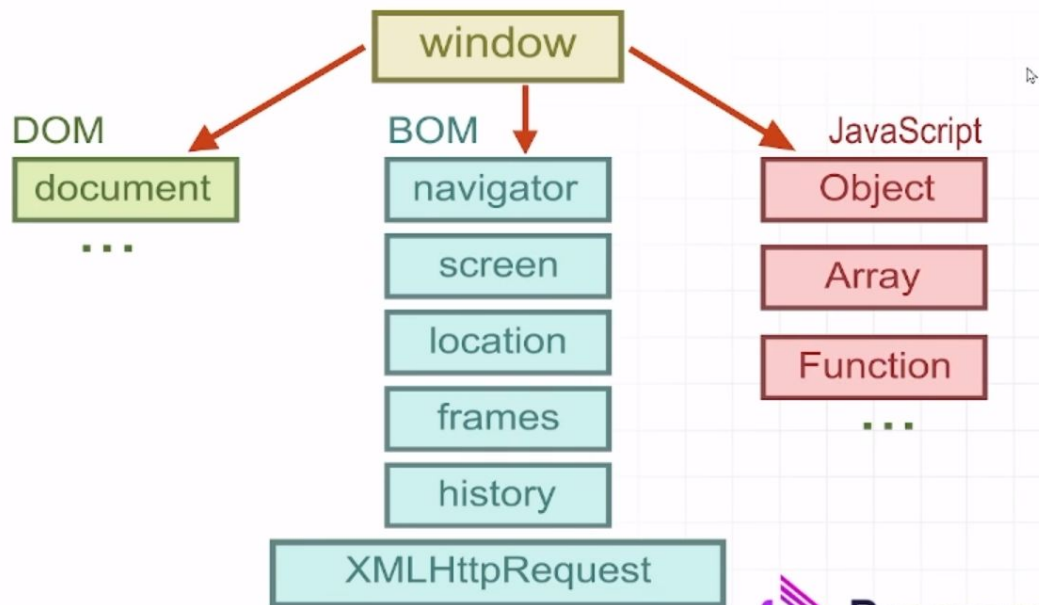
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What is browser
API?

[Answer](#)

BOM vs DOM



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BOM vs DOM

- ❖ Browser Object Model.
- ❖ Used to access and manipulation of the browser window.
- ❖ Each browser has its own standards for implementing BOM.
- ❖ Consists of the objects **navigator, history, screen, location**.
- ❖ **BOM** is a **superset** of DOM. BOM has many objects, methods, and properties that are not part of the DOM structure.

- ❑ Document Object Model.
- ❑ Used to manipulate the **HTML** document.
- ❑ Has a set standard of rules to be used across documents.
- ❑ Represents the contents of the web page.
- ❑ **DOM** is a **subset** of BOM



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