

Storing Data with JavaScript



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Overview



Introducing JavaScript APIs

Working with local storage



Introducing JavaScript APIs



From Sites to Apps



Static sites
HTML + CSS



Apps
HTML + CSS + JavaScript



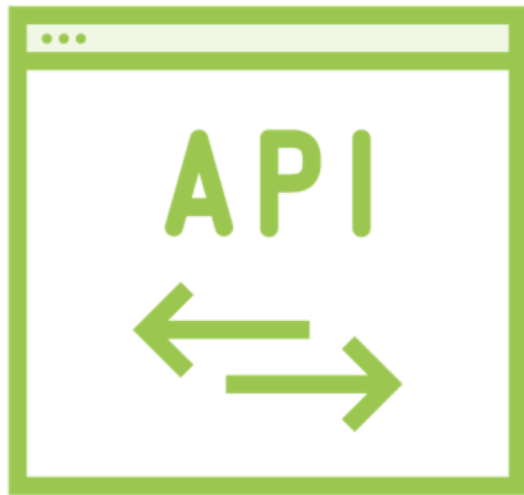


JavaScript allows us to write code in the browser

Powers millions of applications

- Google Maps
- Outlook
- Gmail
- Custom web application





APIs expose certain functionality

Browsers come with several APIs built-in

- Expose complex functions





With HTML5, several APIs were standardized

Interaction goes through JavaScript objects

Over 90 APIs are now related to HTML5



Commonly Used JavaScript APIs



Geolocation



Storage



Audio and video



Drag and drop



Executing on the Client





Programming ahead!

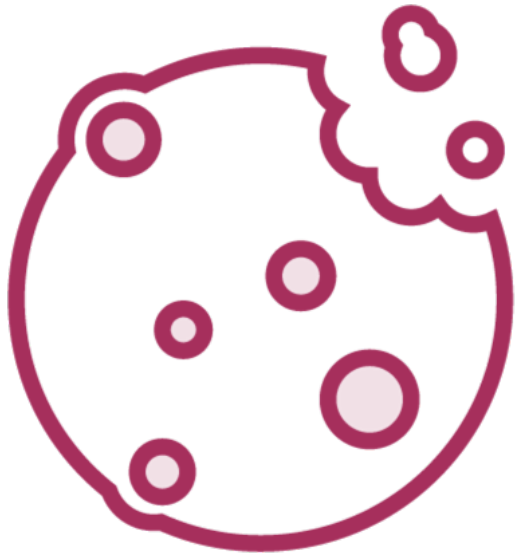
Interacting with JavaScript APIs requires *real* development

We'll limit ourselves to interacting with a built-in API



Working with Web Storage





Storing data

- Small pieces of text
- Sent to server by the browser with every request
- Limited in size (4 kB)





Give me a cookie!

The term "cookie" was coined by web-browser programmer Lou Montulli. It was derived from the term "magic cookie", which is a packet of data a program receives and sends back unchanged, used by Unix programmers.





Web storage API

- Through code, store key-value pairs
- Persistent on client
- More space: 5 MB

Types

- Local Storage
- Session Storage

Working with Local Storage

```
window.localStorage
```



Functions and Attributes of localStorage

`setItem(key, value)`

`getItem(key)`

`removeItem(key)`

`length`

`clear()`



Demo



Saving your favorite pie to localStorage



Summary

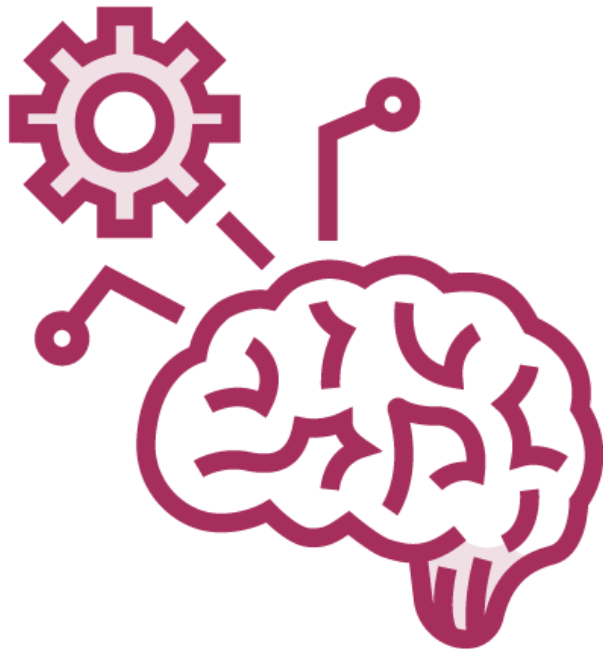


Browser APIs extend dramatically what a web page can do

HTML5 comes with several APIs built-in

Web Storage extends storage functionality of a web application





Want to learn more?

- **HTML Path:**
www.pluralsight.com/paths/html5
- **CSS Path:**
www.pluralsight.com/paths/css
- **JavaScript Path:**
www.pluralsight.com/paths/javascript-core-language

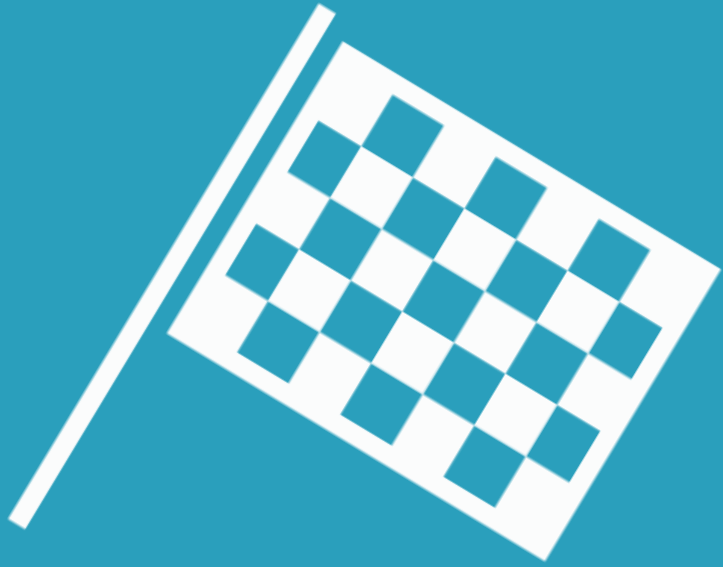




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stranger!

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Congratulations
on finishing this course!

