**JSON APIs and AJAX**

Similar to how UIs help people use programs, APIs (Application Programming Interfaces) help programs interact with other programs. APIs are tools that computers use to communicate with one another, in part to send and receive data.

Programmers often use AJAX (Asynchronous JavaScript and XML) when working with APIs. AJAX refers to a group of technologies that make asynchronous requests to a server to transfer data, then load any returned data into the page. And the data transferred between the browser and server is often in a format called JSON (JavaScript Object Notation).

This course will teach you the basics about working with APIs and different AJAX technologies in the browser.

Collapse course

10/10

1. [Handle Click Events with JavaScript using the onclick property](https://www.freecodecamp.org/learn/data-visualization/json-apis-and-ajax/handle-click-events-with-javascript-using-the-onclick-property)
2. [Change Text with click Events](https://www.freecodecamp.org/learn/data-visualization/json-apis-and-ajax/change-text-with-click-events)
3. [Get JSON with the JavaScript XMLHttpRequest Method](https://www.freecodecamp.org/learn/data-visualization/json-apis-and-ajax/get-json-with-the-javascript-xmlhttprequest-method)
4. [Get JSON with the JavaScript fetch method](https://www.freecodecamp.org/learn/data-visualization/json-apis-and-ajax/get-json-with-the-javascript-fetch-method)
5. [Access the JSON Data from an API](https://www.freecodecamp.org/learn/data-visualization/json-apis-and-ajax/access-the-json-data-from-an-api)
6. [Convert JSON Data to HTML](https://www.freecodecamp.org/learn/data-visualization/json-apis-and-ajax/convert-json-data-to-html)
7. [Render Images from Data Sources](https://www.freecodecamp.org/learn/data-visualization/json-apis-and-ajax/render-images-from-data-sources)
8. [Pre-filter JSON to Get the Data You Need](https://www.freecodecamp.org/learn/data-visualization/json-apis-and-ajax/pre-filter-json-to-get-the-data-you-need)
9. [Get Geolocation Data to Find A User's GPS Coordinates](https://www.freecodecamp.org/learn/data-visualization/json-apis-and-ajax/get-geolocation-data-to-find-a-users-gps-coordinates)
10. [Post Data with the JavaScript XMLHttpRequest Method](https://www.freecodecamp.org/learn/data-visualization/json-apis-and-ajax/post-data-with-the-javascript-xmlhttprequest-method)

00% NOT PASSED