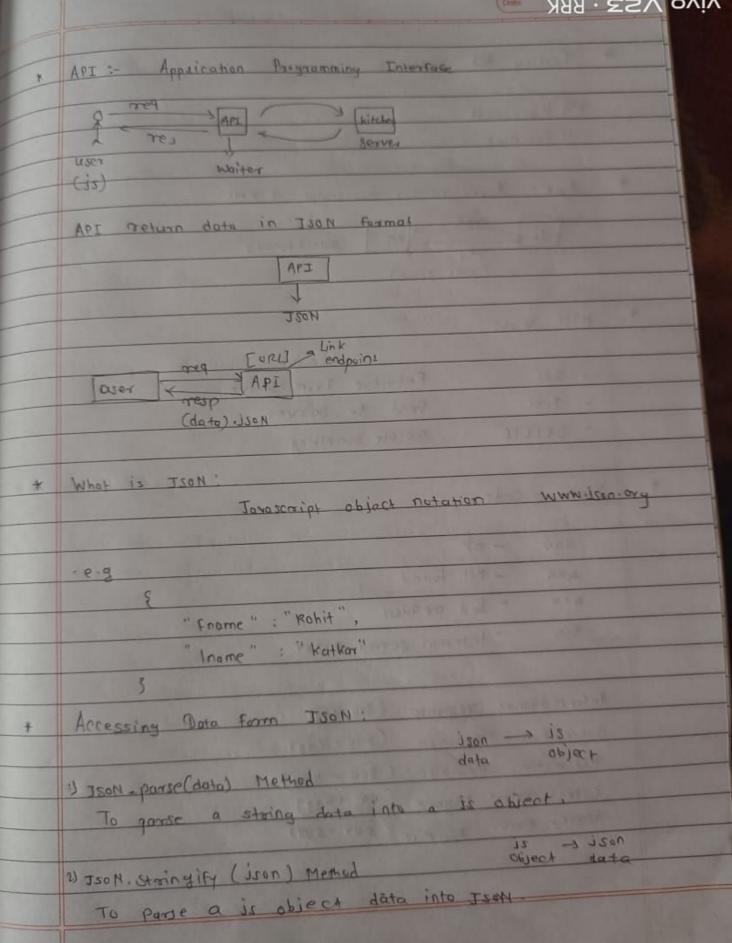
Async Function async 4 await keywords Create async Function: - (it return Promise object async function great () return "hour": P' rejected P: Fuifil + return let greet = async () => { await keyword: Pouse the execution of its surrounding async function until the the promise is settled (resolved or rejected) e.g async function show() await Colorchange ("Voitet", 1000); await colorchange (" lime", 2000); neture "done"; vivo V23 · RRK

```
* Handsing Rejection with Await
  * use try Catch brock
  let hi = document , query selector (" hi");
  Function Change Color (Color, delar)
   return new promise ((resolve, reject)=>{
       Settimeout (() => {
           Det num = Math · Floor (Math · Tandom () + 5) +1.
           if ( num > 3)
            reject (" Promise reject"):
            h1. style. color = color;
            Conside Joy ( color Changed to $ $ color? ):
            resolve ( "color Changed");
         3, deland;
 async function (dor() }
  Qwait (" Violet", 10000);
  await (" fink" , 2000).
  await (" lime", 1000).
  owait (" Pumpe", 1600);
 Catch (en)
 console suy ("error Caught").
 console 104 ( "em);
 lonsile, 204 (2).
```



		Proper No.
		VIVO VZS · RRK
		* Testing API request:
-		2) Postman
1		
4	+	Ajax: Asynchronous javascript a xml
+		Lis req > Ar asynchronous
1		(XML, JSON)
1	*	*
1	-	HTTP Vexbs:
		Get Retrieve From Server
		- Post Send to Server
_		* DELETE Delete Something
	+	
		Status Code:
		200 - ok
		404 - Not found
		400 - Bad request
		500 - Internal server error
		Informational response (100-199)
		Successful response (200-299)
		Redirection message (300 - 349)
		Client error response (400 -499)
		soover error response (506-599)
		The land mental there !
		The same and the same of the s







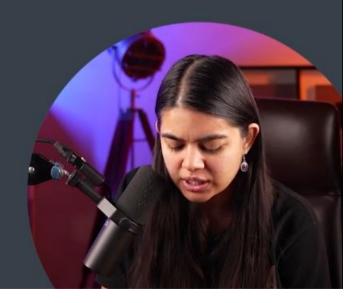
01. async Functions.mp4



Async Keyword

Creates an Async Function

```
async function greet() {
   return "hello world!"; //returns a promise
}
let hello = async () => {}; //returns a promise
```

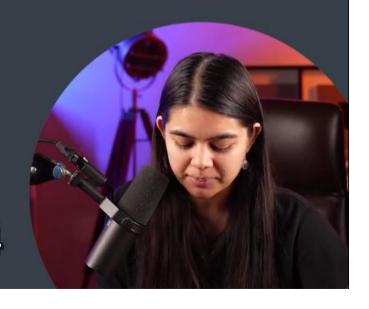




Await Keyword

pauses the execution of its surrounding async function until the promise is settled (resolved or rejected)

```
async function show() {
  await colorChange("violet", 1000);
  await colorChange("indigo", 1000);
  await colorChange("green", 1000);
  await colorChange("yellow", 1000);
  await colorChange("orange", 1000);
  return "done";
}
```

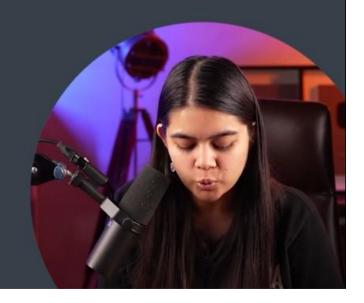


02. await Keyword.mp4



Await Keyword

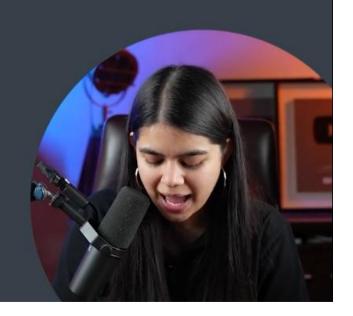
Handling Rejections with Await

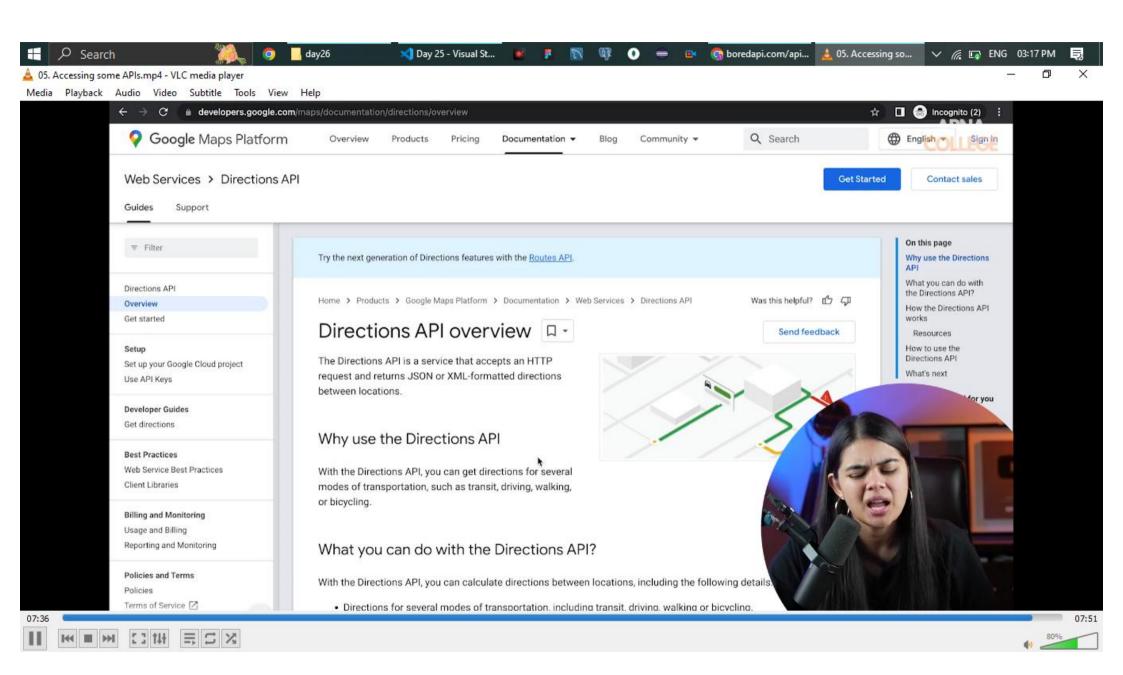






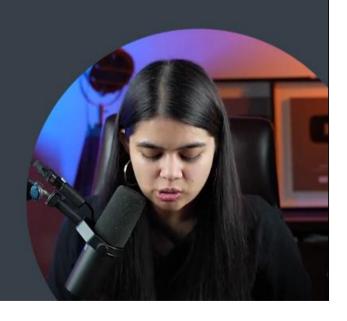
Application Programming Interface



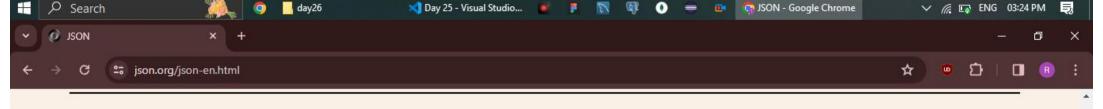








06. What is JSON_.mp4



JSON (JavaScript Object Notation) is a lightweight data-interchange format. It is easy for humans to read and write. It is easy for machines to parse and generate. It is based on a subset of the JavaScript Programming Language Standard ECMA-262 3rd Edition - December 1999. JSON is a text format that is completely language independent but uses conventions that are familiar to programmers of the C-family of languages, including C, C++, C#, Java, JavaScript, Perl, Python, and many others. These properties make JSON an ideal data-interchange language.

JSON is built on two structures:

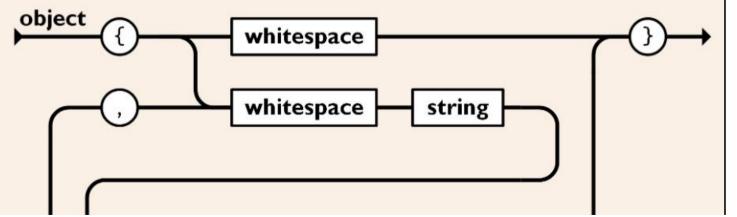
A collection of name/value pairs. In various languages, this is realized as an *object*, record, struct, dictionary, hash table, keyed list, or associative array.

An ordered list of values. In most languages, this is realized as an array, vector, list, or sequence.

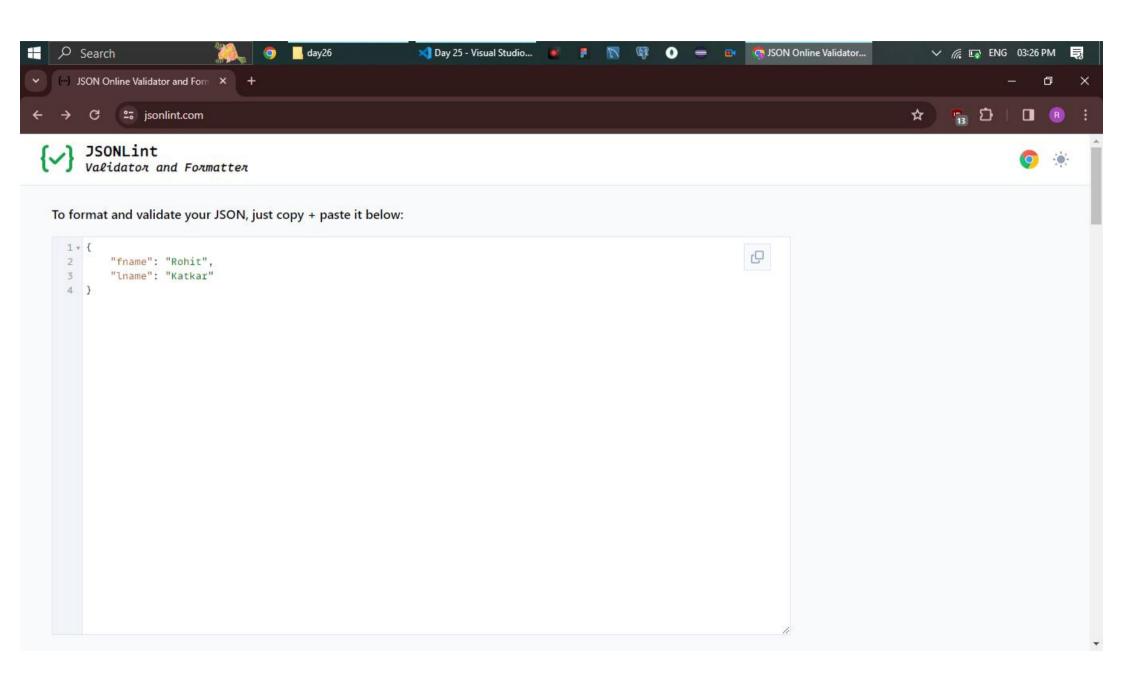
These are universal data structures. Virtually all modern programming languages support them in one form or another. It makes sense that a data format that is interchangeable with programming languages also be based on these structures.

In JSON, they take on these forms:

An object is an unordered set of name/value pairs. An object begins with { left brace and ends with } right brace. Each name is followed by ; colon and the name/value pairs are separated by , comma.



```
ison
    element
value
    object
    array
    string
    number
    "true"
    "false"
    "null"
object
    '{' ws '}'
    '{' members '}'
members
    member
   member', 'members
member
    ws string ws ': ' element
array
    '[' ws ']'
    '[' elements ']'
elements
    element
    element ', ' elements
element
    ws value ws
atrina
```





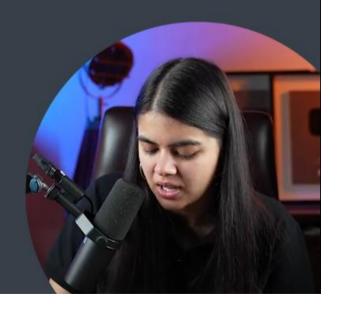
JSON - Stoing

Accessing Data from JSON

• JSON.parse(data) Method

To parse a string data into a JS object

JSON.stringify(json) Method
 To parse a JS object data into JSON

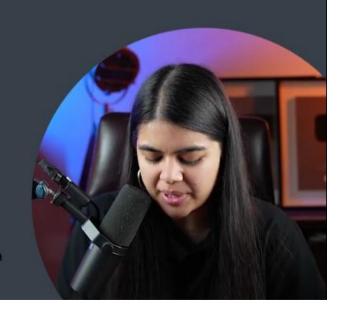




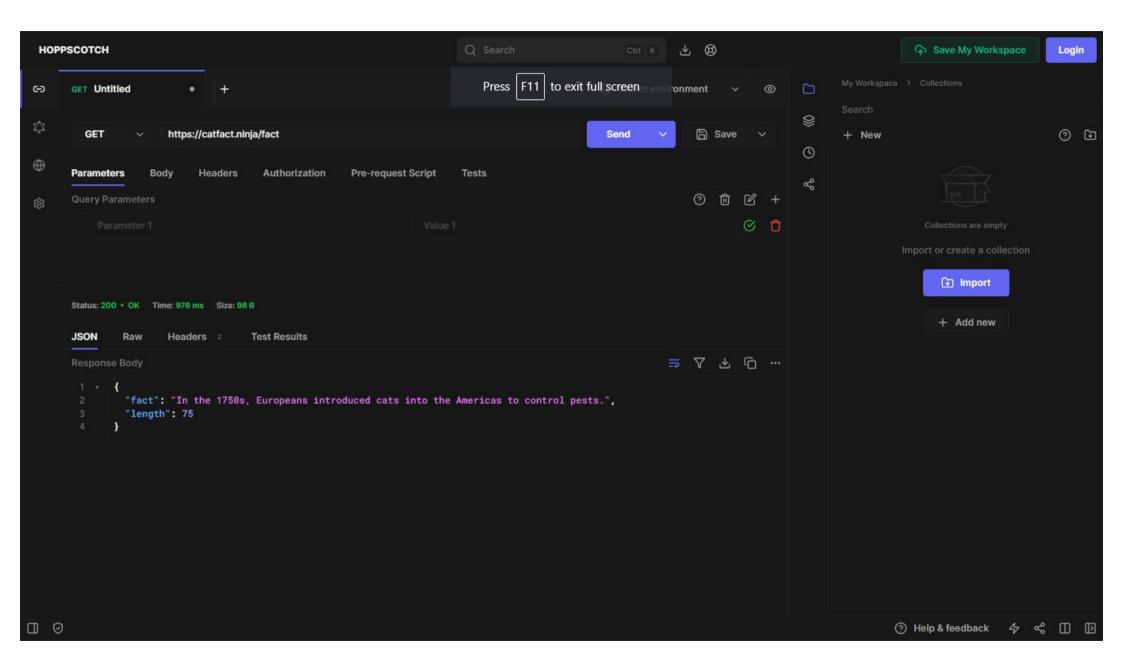
Testing API requests

Tools

- Hoppscoth
- Postman



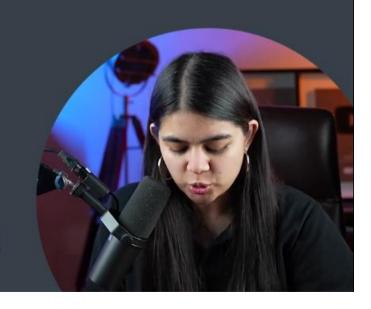
08. API Testing Tools.mp4





<u>Ajax</u>

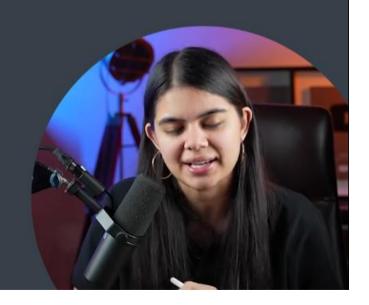
Asynchronous JavaScript and XML



09. What is Ajax_.mp4





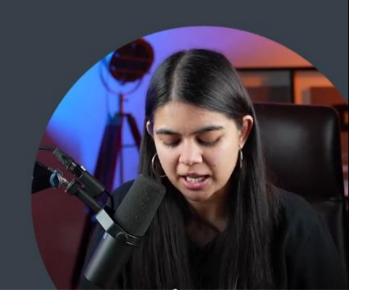




Http Verbs

Examples:

- GET
- POST
- DELETE





Status Codes

Examples:

- 200 OK
- 404 Not Found
- 400 Bad Request
- 500 Internal Server Error

