WHAT IS JSON?

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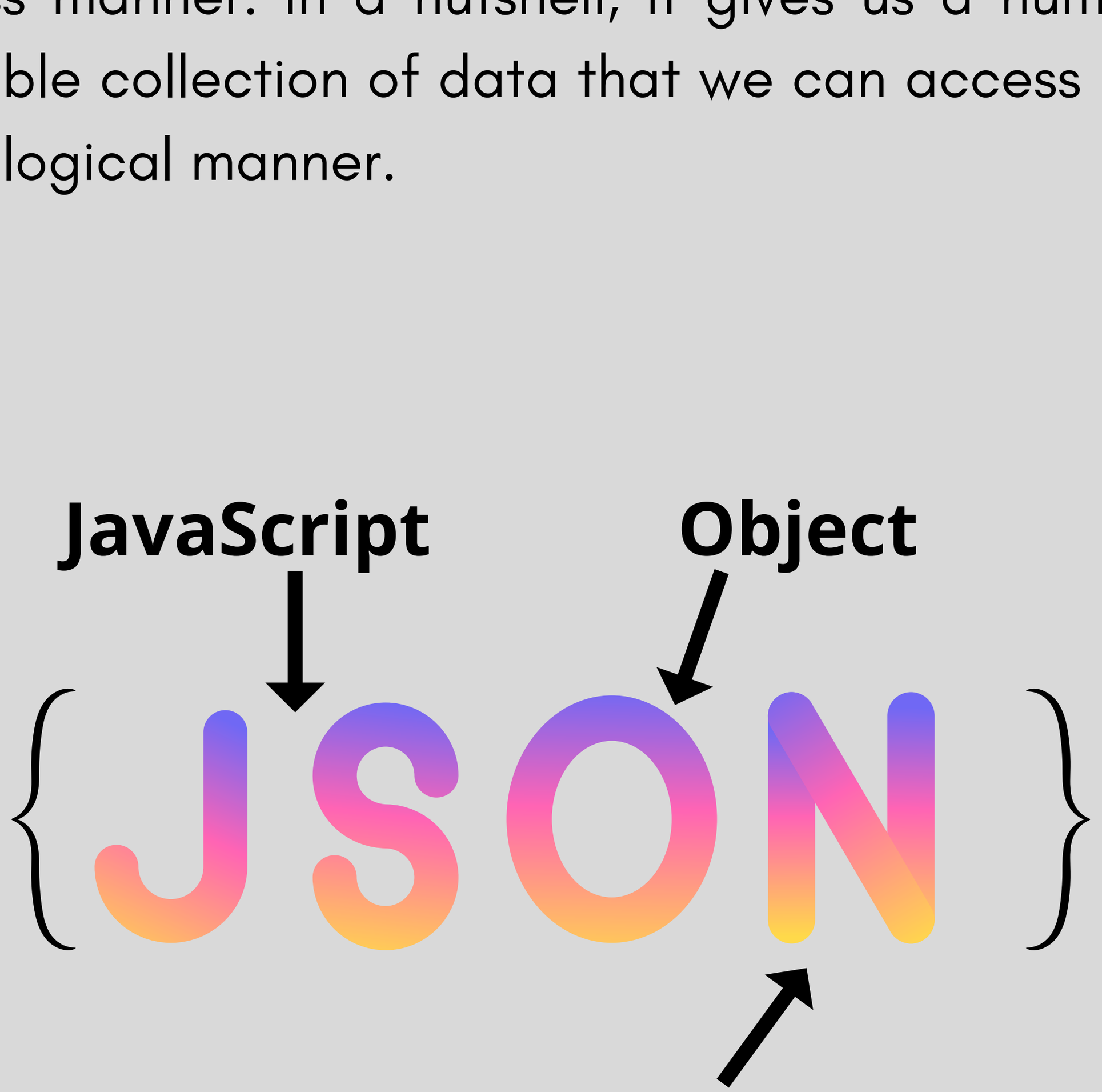
INTRODUCTION :

JSON is short for JavaScript Object Notation, and is a way to store information in an organized, easy-to-access manner. In a nutshell, it gives us a human-readable collection of data that we can access in a really logical manner.



JASON syntaxes and data types

JSON syntax is derived from JavaScript object notation syntax:

- Data is in name/value pairs
- Data is separated by commas
- Curly braces hold objects
- Square brackets hold arrays

This example is a JSON string:

```
'{"name":"John", "age":30, "car":null}'
```

JASON syntaxes and data types

In JSON, values must be one of the following data types:

- a string
- a number
- an object (JSON object)
- an array
- a boolean
- null

Values in JSON can be objects.

```
{
"employee":{"name":"John", "age":30, "city":"New York"}
}
```

List of JSON methods:

The following are the available Json class methods.

Method	Description
Add	Add an item to a JSON array
Array	Create an Array JSON object
Boolean	Create a Boolean JSON object
BooleanValue	Get boolean value of JSON object
Copy	Copy the JSON object
Count	Number of items in object
DeepCopy	Copy the JSON object
Delete	Delete a JSON object/array item value
False	Create a false Boolean JSON object
Insert	Insert an item into a JSON array
Item	Return or set JSON object/array item value

NumberByName	Get number of named item in JSON object
NumberValue	Get number value of JSON object
Object	Create an Object JSON object
Parse	Create an JSON object from serialized JSON
String	Create a String JSON object
Stringify	Serialize a JSON object
StringValue	Get string value of JSON object
ToString	Serialize a JSON object
True	Create a true Boolean JSON object
Type	Get type of JSON object

JSON Data Format Examples

You can save JSON data in a file with the extension of .json. Let's create an employee.json file with attributes (represented by keys and values) of an employee.

```
{
    "name": "Aleix Melon",
    "id": "E00245",
    "role": ["Dev", "DBA"],
    "age": 23,
    "doj": "11-12-2019",
    "married": false,
    "address": {
        "street": "32, Laham St.",
        "city": "Innsbruck",
        "country": "Austria"
    },
    "referred-by": "E0012"
}
```

Why Use JSON?

The JSON format is syntactically similar to the code for creating JavaScript objects. Because of this, a JavaScript program can easily convert JSON data into JavaScript objects.

Since the format is text only, JSON data can easily be sent between computers, and used by any programming language.

When storing data, the data has to be a certain format, and regardless of where you choose to store it, text is always one of the legal formats.

JSON makes it possible to store JavaScript objects as text.

And for amazing stuff you can follow me

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References:

https://www.w3schools.com/js/js_json_intro.asp

https://m204wiki.rocketsoftware.com/index.php/List_of_Json_methods

JSON for Beginners - JavaScript Object Notation Explained in Plain English (freecodecamp.org)