

Advanced JS - 3

Object

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JSON

→ Javascript object notation:-

→ JSON is a text based data format that is used to store & transfer data

e.g. Syntax:-

```
{
  "name": "John",
  "age": 22,
  "gender": "Male"
}
```

→ In JSON, the data → key-value pair separated by :

→ JSON → derived from JS

→ JSON syntax → resembles JS object literal syntax. However, JSON format can be accessed by other prog lang.

→ Javascript object & JSON are not same

④ JSON Data:-

→ consist of data → key & value pair

→ key & value → written in double quotes separated by colon.

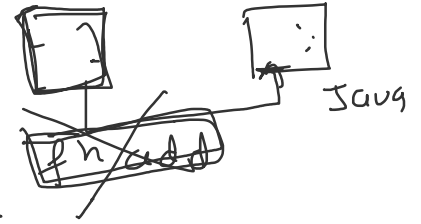
"name" : "John"



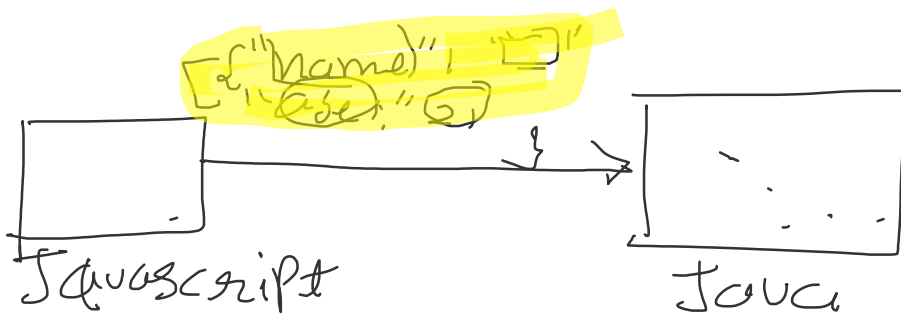
(key) (value)

JSON array -

```
[
  { "name": "John", "age": 23 },
  { "name": "Peter", "age": 21 }
]
```



// Javascript object can contain functions .
 // JSON data can't contain fn as values.



```
function reduceAge (age) {
  return age;
}
```

```
{
  name: "John",
  age: 21,
  reduceAge: reduceAge
}
```

⊛ Access JSON:-

```
const data = {
  "name": "John",
```

`{
 "class": ["Javascript", "HTML"]
 }`

(Note: In the original image, there are handwritten annotations: "value" above the opening brace, "key" above the string "class", and an arrow pointing from the array to the word "HTML")

data-name

data-age

data-class []

JSON

1. The key in key-value should be in double quotes
2. JSON can't contain fn.
3. JSON can be used by other prog. lang.

Javascript Object

1. Can be without double quotes
2. JS objects can contain fn.
3. Can only be used in JS.

⊛ Objects

→ JS objects ⇒ Non-Primitive datatype
 → Store multiple collⁿ of

Const student = {

{
 first name: "Dipanshu"
 }

(Note: In the original image, "first name" is underlined and "Dipanshu" is highlighted in yellow. There is also a handwritten "class: 12" below the object.)

address: {
City: "Bang"
~~State~~: "
}