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JAVASCRIPT

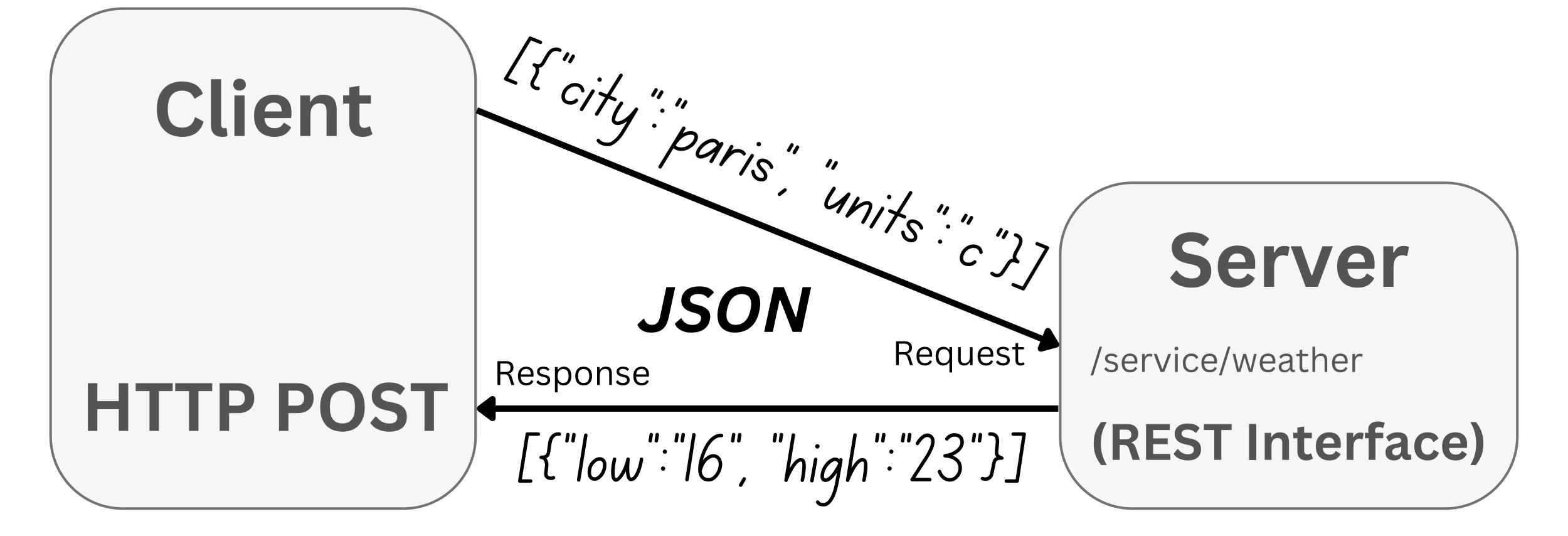
OBJECT

NOTATION

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O) JSON

- JSON stands for JavaScript Object Notation.
- JSON is a lightweight format for storing & transporting data.
- JSON is "self-describing" and easy to understand.
- JSON is often used when data is sent from a server to a web page.



JSON EXAMPLE

```
"employees":[
    {"firstName" : "John", "lastName" : "Doe"},
    {"firstName" : "Anna", "lastName" : "Smith"},
    {"firstName" : "Peter", "lastName" : "Jones"}
]
```

This example defines an employees object: an array of 3 employee records (objects)

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Key and Values

KEY AND VALUES

The two primary parts that make up **JSON** are keys and values.

Together they make a key/value pair:-

- Key: A key is always a string enclosed in quotation marks.
- Value: A value can be a string, number, boolean expression, array, or object.



The key is "name" and the value is "aditya".

JSON.parse()

When receiving data from a web server, the data is always a **string**.

Imagine we received this text from a web server

'{ "name": "Aditya", "age": 19, "country": "India"}'

Use the JavaScript function **JSON.parse()** to convert text into a JavaScript object

var obj = JSON.parse('{"name";"Aditya", *age":19, "country";"India"}');

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JSON.stringify()

JSON.stringify()

The **JSON.stringify()** method converts a JavaScript object or value to a JSON string, optionally replacing values if a replacer function is specified or optionally including only the specified properties if a replacer array is specified.

SYNTAX

JSON. stringify(value, replacer, space)

```
'{
"language":"JavaScript",
"IDE":"Visual Studio",
"Theme":"dark"
}

JavaScript Object

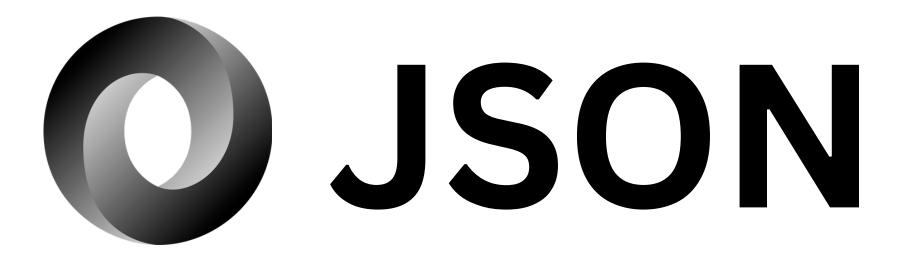
{
language:'JavaScript',
IDE:'Visual Studio',
Theme:'dark'
}

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```

JSON VALUES

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

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





RECAP

JSON is a **minimal data format.** Just by learning a **few key principles you can decode** an entire site's worth of **JSON**.



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