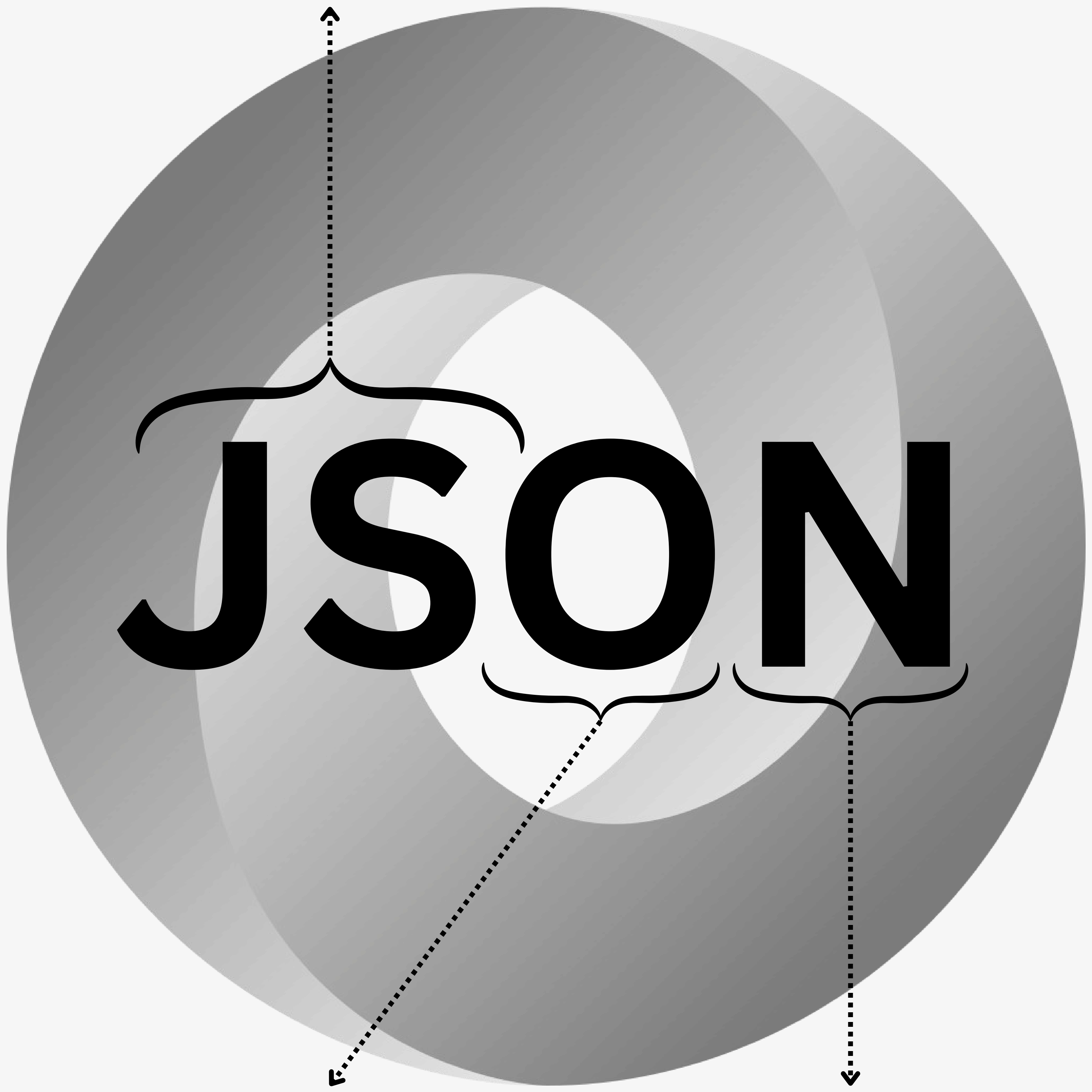


JAVASCRIPT

JSON

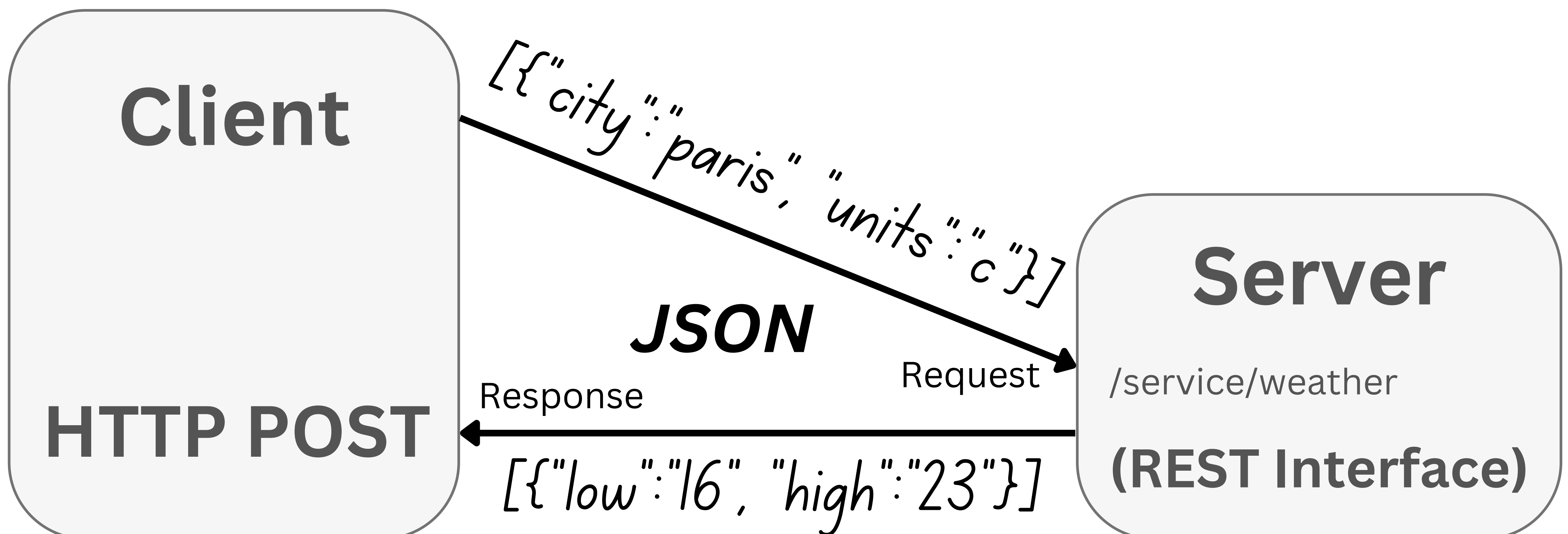
OBJECT

NOTATION



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)*

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()



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"}');
```

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)

JSON String

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

JSON.parse()



JavaScript Object

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

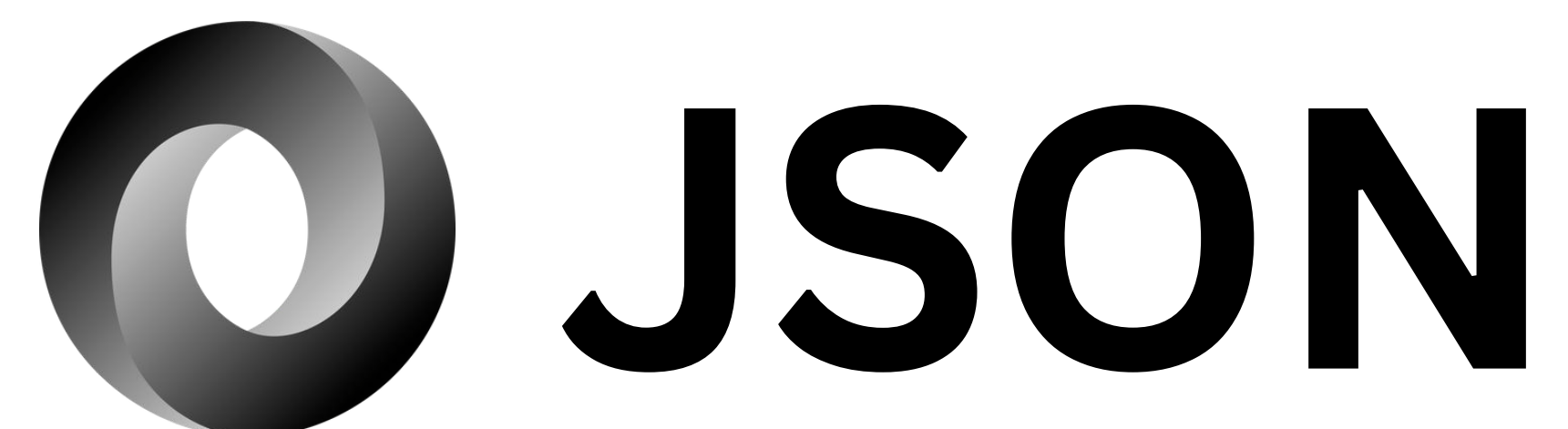
JSON.stringify()



JSON VALUES

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

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



Let's Summarize



RECAP

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

 **JSON**

