

WHAT IS  
**JSON**





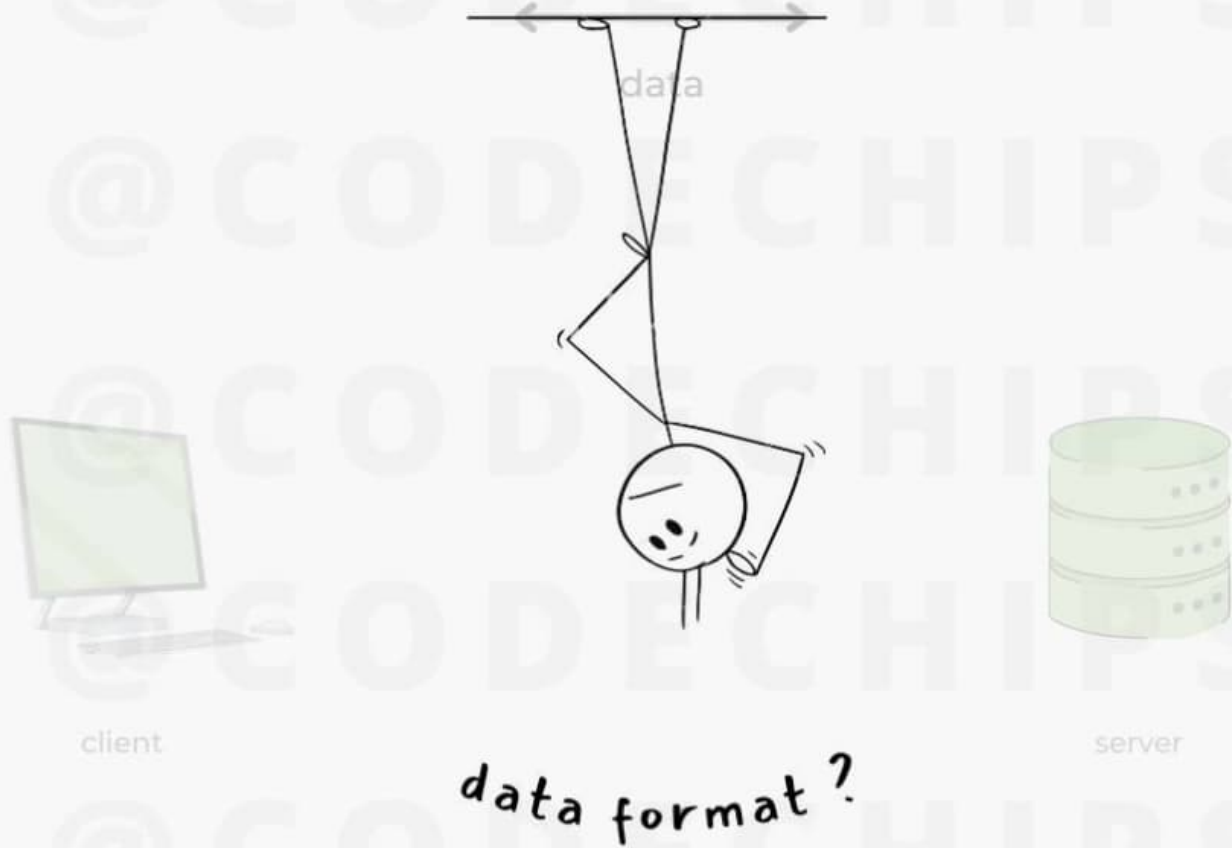
Lets say there is website to display information about pizzas

And they need to talk to  
each other and transfer data





But in what format can the data be transferred ?





## What about plain text format ?

The 1st Pizza is Neapolitan Pizza which has a thin crust and Mozzarella cheese, Tomatoes, Basil toppings .

The 2nd Pizza is New York-Style Pizza which has a thick crust and Mozzarella cheese, Tomatoes toppings

It is easy to read for us but not easy to interpret on the client side

how can I fetch individual data ?





Then XML was introduced

```
<?xml version="1.0" encoding="UTF-8" ?>
<root>
  <pizza>
    <id>01</id>
    <name>Neapolitan Pizza</name>
  </pizza>
  <pizza>
    <id>02</id>
    <name>New York-Style Pizza</name>
  </pizza>
</root>
```

XML has been in use for many years, still the format could be bulky and cause too much overhead for web services

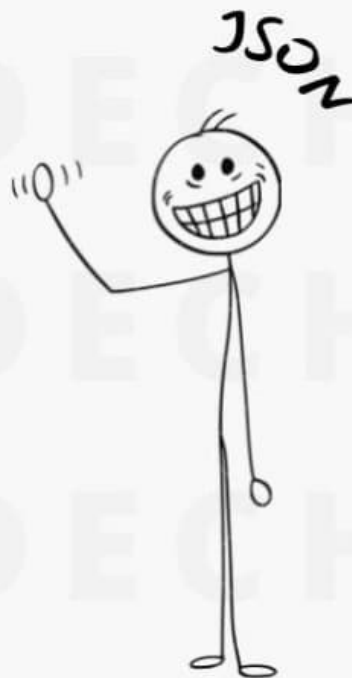
*Is there anything easy  
to read and retrieve?*





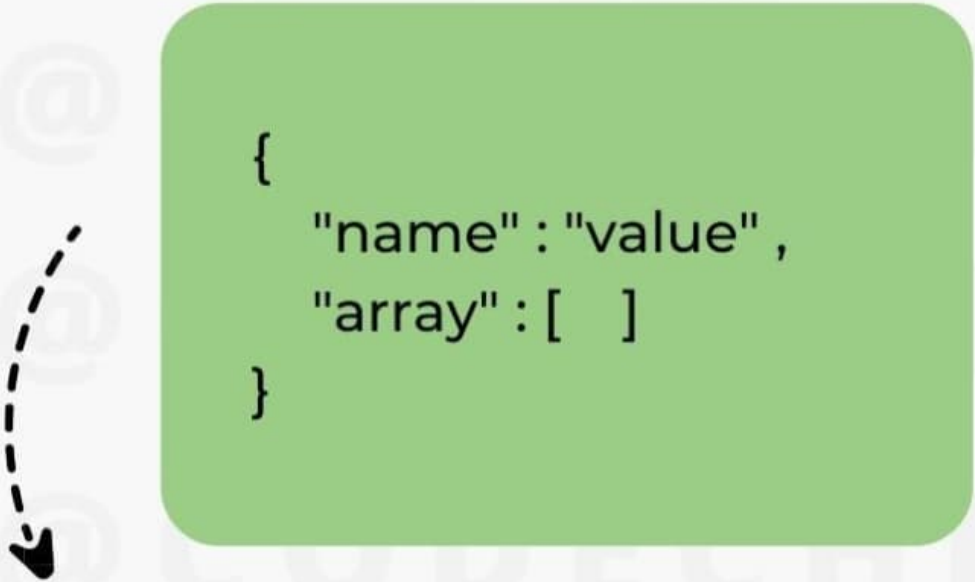
# That is when JSON came into play

JSON stands for JavaScript Object Notation, a lightweight format for **storing** and **transporting** data from a server to a web page, it is "self-describing" and **easy** to understand





## JSON Syntax Rules



```
{  
  "name": "value",  
  "array": [  ]  
}
```

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



## JSON looks like this

```
{
  "pizza": [

    {
      "id": "01",
      "name": "Neapolitan Pizza",
      "toppings": ["Mozzarella", "Tomatoes", "Basil"]
    },

    {
      "id": "02",
      "name": "New York-Style Pizza",
      "toppings": ["Mozzarella", "Tomatoes", "Basil"]
    }
  ]
}
```





# Why is JSON preferred ?

Less Verbose

Faster

JSON

Objects Align in Code

Readable

Structure Matches the Data

