

What is JSON

Let's say there is website to display information about food.

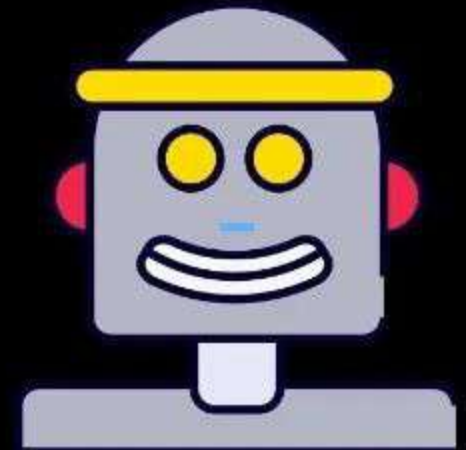
*And they need to talk
to each other and
transfer data*



Client



Data



Server

But in what format can the data
be transferred ?



What about plain text format?

First is Pizza with thin crust and cheese toppings

Second is Double cheese Burger

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





Then XML was introduced.

```
<?xml version="1.0" encoding="UTF-8?">
<root>
  <pizza>
    <id>01</id>
    <name>Pizza With Thin Crust</name>
  </pizza>
  <burger>
    <id>02</id>
    <name>Double Cheese Burger</name>
  </burger>
</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 &
retrive?*



That is when JSON came into play.

JSON stand 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 pairs
- Data is separated by commas
- Curly brace hold objects
- Square brackets hold arrays



So JSON looks like this!

```
{
  "Food":
  [
    {
      "id": "01",
      "name": "Pizza with thin crust",
      "toppings":
      ["Cheese", "Basil", "Pineapple"]
    },
    {
      "id": "02",
      "name": "Double cheese burger",
      "toppings":
      ["Cheese", "chicken", "aloo tikki"]
    }
  ]
}
```



So For What JSON Is Preferred?

Faster

Less Verbose

Readable



*Objects Align In
Code*

*Structure Matches The
Data*