What is JSON?

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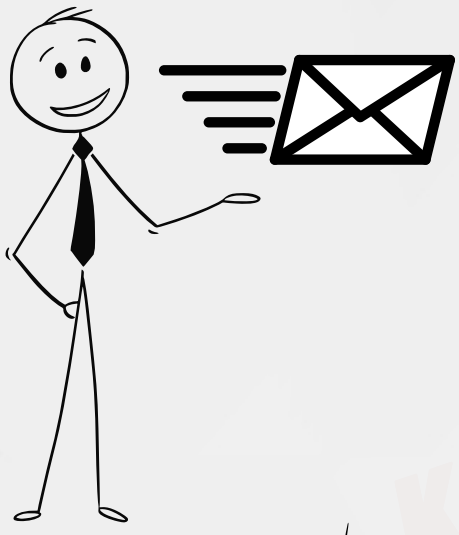
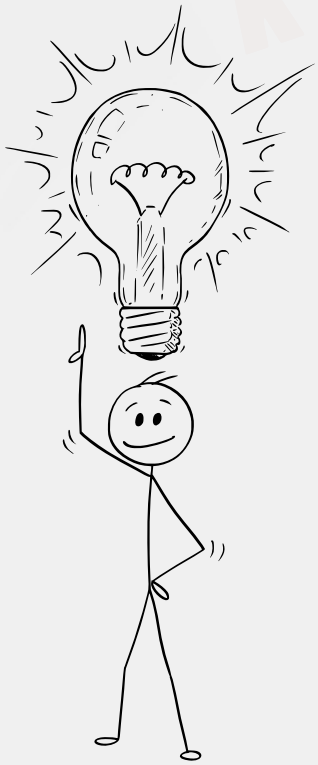
- **JSON** stands for **J**avaScript **O**bject **N**otation.
- **JSON** is a lightweight format for storing and transporting data.
- **JSON** becomes a medium of communication between the two machines.

You want to send data to another machine?



How will the recipient machine understand it?

Convert your data into JSON.



Other machines can simply parse it to understand

Key Points When Encoding Data to JSON

- Key/value pairs.
- Each pair is separated by commas.
- Curly braces encapsulate objects.
- Square brackets encapsulate arrays.
- Arrays are called JSON Arrays.
- JSON arrays hold JSON objects.
- A JSON object can contain another JSON object, and This is called **N**ested **J**SON **O**bjects.

Example of JSON Object

```
{
"name:" XYZ,
"age:" 32
}
```

Example of JSON Array

```
[
{
"name:" XYZ,
"age:" 32
},
{
"name:" ABC,
"age:" 35
}
]
```

Why Do Developers Prefer JSON?

- 👉 Simple to build and debug.
- 👉 Low light-weight payload size.
- 👉 Acceptable across all modern high-level programming languages