

# \* JSON \*

Monday  
DECEMBER 2024 9  
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## What is JSON File :-

A JSON file is a file that stores data in ["JavaScript Object Notation"] JSON format. ~~XXXXXX~~ JSON is a lightweight data-interchange format that is easy for humans to read and write, and easy for machines to parse and generate.

**Structure of a JSON File:-** A JSON file is essentially a Text file that contains data in a structured format. The structure is composed of

⇒ **objects:-** Key-value pairs enclosed in curly braces **{ }**

⇒ **Arrays:-** Ordered lists of values enclosed in square brackets **[ ]**

**Example of what a JSON file might look like:-**

```
{  
  "Name": "Imray",  
  "age": 30,  
  "address": {  
    "street": "Bangorade",  
    "city": "Miryalguda",  
    "zipcode": "508207"  
  },  
  "hobbies": [  
    "Reading",  
    "Travelling",  
    "Music"  
  ]  
}
```

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... and staring at the water."

### Key Features :-

- ⇒ **Human Readable** :- JSON is designed to be easy to read and write by humans.
- ⇒ **Language Independent** :- While it originates from JavaScripts, JSON is Language-agnostic, meaning it can be used with virtually any programming language.
- ⇒ **Data Interchange** :- It's commonly used for exchanging data between a server and a web application.

### Common Uses :-

- ⇒ **APIs** :- JSON is widely used in web APIs to send data between a server and a client.
- ⇒ **Configuration Files** :- Applications often use JSON files to store configuration settings.
- ⇒ **Data Storage** :- JSON is used in NoSQL databases like MongoDB to store and query data.

### Benefits :-

- ⇒ **Simplicity** :- It's straightforward syntax makes it easy to use.
- ⇒ **Versatility** :- Suitable for a wide range of applications.

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"The only person you are destined to become is the person you decide to be."