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# JSON Learning

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# What is JSON?

- JSON stands for **JavaScript Object Notation**
- Lightweight format for storing and transporting data
- JSON is often used when data is sent from a server to a web page
- Based on subset of **javaScript**
- Easy to read and write data
- Can be used with modern languages

# Data Types

- ◆ Number 0 1 3.1416 1.2e10
- ◆ String “Hello World!” “John Doe”
- ◆ Boolean true false
- ◆ Array [1,5,6,8,10,3.5] [“Red”, “Green”, “White”, “Blue”]
- ◆ Object {“name”:”Jane Doe”} {“age”:25}

# JSON Syntax

- JSON file extension will be “**.json**”
- It will use key/value pairs --> {“name”: “John”}
- Use double quotes around Key and Value
- Data is separated by commas
- Curly braces hold objects
- Square brackets hold arrays

# Example

```
[  
  {  
    "name": "Mr. X",  
    "age": 22,  
    "email": "mrX@gmail.com",  
  },  
  {  
    "name": "Mr. Y",  
    "age": 25,  
    "email": "mrY@gmail.com",  
  }]  
]
```

# **JSON.parse()**

- A common use of JSON is to exchange data from a web server.
- When receiving data from a web server, the data is always a string
- Interchange the data with **JSON.parse()** and the data becomes a JavaScript object

# Example on JSON.parse()

```
'{
  "name": "John Doe",
  "age": 25,
  "city": "Dhaka",
}'  
var obj = JSON.parse('{
  "name": "John Doe",
  "age": 25,
  "city": "Dhaka",
}');
```

# **JSON.stringify()**

- A common use of JSON is to exchange data from a web server
- When sending data to a web server, the data has to be a string
- Convert a JavaScript object into a string with **JSON.stringify()**

# Example on JSON.stringify()

```
var obj = {  
    name: "John Doe",  
    age: 25,  
    city: "Dhaka",  
};  
  
var jsonData = JSON.stringify();
```

# Reference

1. [https://www.w3schools.com/js/js\\_json\\_intro.asp](https://www.w3schools.com/js/js_json_intro.asp)
2. [https://opensource.adobe.com/Spry/samples/data\\_region/JSONDataSetSample.html](https://opensource.adobe.com/Spry/samples/data_region/JSONDataSetSample.html)
3. [https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global\\_Objects/JSON](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/JSON)

# More on JSON

<https://github.com/Monmoy042/jsonLearning>