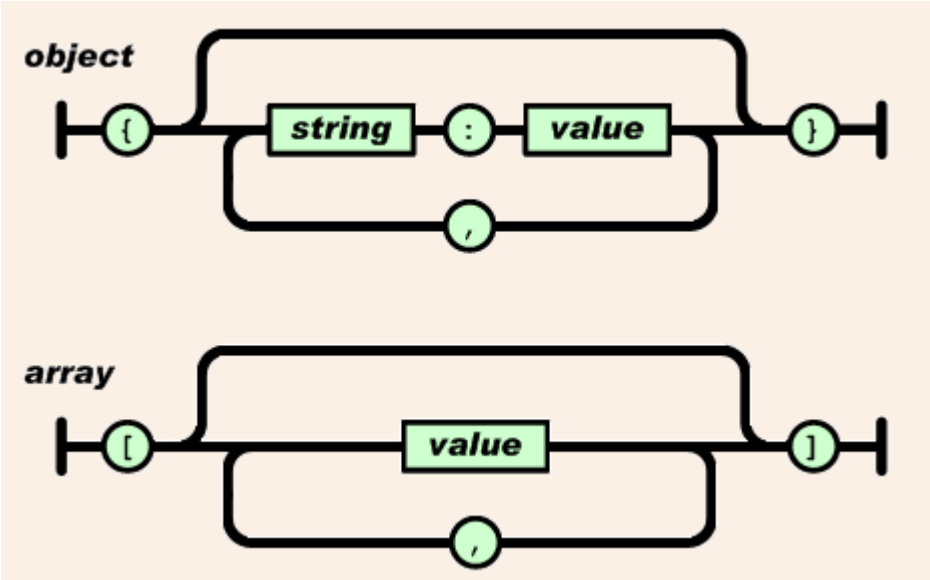# JSON - JavaScript Object Notation

1. What is JSON
2. JSON methods
3. JSON.stringify()
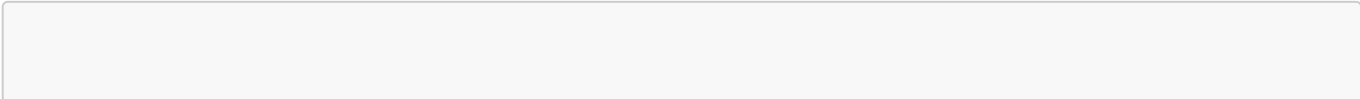4. JSON.parse()

1. What is JSON

- JSON is standard built-in objects
- JSON is a global object
- JSON is a syntax for serializing:
    - objects
    - arrays
    - numbers
    - strings
    - booleans
    - null

2. JSON methods

#	Name	Desc
1	JSON.parse(text)	JSON -> Javascript value
2	JSON.stringify(value)	Javascript value -> JSON string

3. JSON.stringify()

```
const student = { id: 1, name: 'Long Do', age: undefined }
JSON.stringify(student);
// '{"id": 1, "name": "Long Do" }'
```

```
const list = [null, undefined, NaN];
JSON.stringify(list);
// [null, null, null]
```

Source: https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/JSON/stringify

4. JSON.parse()

- Property name MUST BE double quoted.
- For numbers, leading zeros are prohibited.
- NaN and Infinity are unsupported.
- Not allow trailing commas

```
JSON.parse('123'); // 123
JSON.parse('true'); // true
JSON.parse('null'); // null
JSON.parse('{}'); // {}
JSON.parse('[]'); // []
```

```
JSON.parse('0123'); // Syntax Error
JSON.parse('NaN'); // Syntax Error
JSON.parse('Infinity'); // Syntax Error
```

```
// property name must use double quotes
JSON.parse("{ 'id': 123 }"); // Syntax Error
JSON.parse('{ "id": 123 }'); // { id: 123 } it works
```

```
// Not allow trailing commas
JSON.parse('[1, 2, 3, 4, ]');
JSON.parse('{"foo" : 1, }');
```

Source: https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/JSON/parse#json.parse_does_not_allow_trailing_commas

Tham khảo

- 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/parse
- https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/JSON/stringify
- https://www.json.org/json-en.html