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# JAVA SCRIPT

**Manipular JSON**

# Criação

```
[  
  {  
    "name": "fulano",  
    "email": "fulano@gmail.com",  
  },  
  {  
    "name": "sicrano",  
    "email": "sicrano@gmail.com",  
  },  
]
```

**Quoted (.json, .js)**

# Criação

```
const students = [  
  {  
    name: 'fulano',  
    email: 'fulano@gmail.com',  
  },  
  {  
    name: 'sicrano',  
    email: 'sicrano@gmail.com',  
  },  
];
```

**Unquoted (.js)**

# Criação

```
const students = [  
  20181234: {  
    name: 'fulano',  
    email: 'fulano@gmail.com',  
  },  
  20181235: {  
    name: 'sicrano',  
    email: 'sicrano@gmail.com',  
  },  
];
```

**Indexed & Unquoted (.js)**

# Faça um teste e acesse:

**<https://members.ip-api.com/#8.8.8.8>**

# Acesso e Alteração

```
const ip = { address: '192.168.0.2', mask: '255.255.255.0' };
```

```
console.log(ip); //=> { address: "192.168.0.2", mask: "255.255.255.0" }
```

```
console.log(ip.address); //=> "192.168.0.2"
```

```
console.log(ip['address']); //=> "192.168.0.2"
```

# Adicionando uma propriedade

```
ip.version = 'v6';
```

```
console.log(ip); //=> { address: "192.168.0.2", mask: "255.255.255.0", version: "v6" }  
console.log(ip.version); //=> "v6"
```

# Alterando uma propriedade

```
ip.version = 'v4';
```

```
console.log(ip); //=> { address: "192.168.0.2", mask: "255.255.255.0", version: "v4" }  
console.log(ip.version); //=> "v4"
```



# Deletando uma propriedade

```
delete ip.version;
```

```
console.log(ip); //=> { address: "192.168.0.2", mask: "255.255.255.0" }
```

```
console.log(ip.version); //=> undefined
```

# Spread properties

```
const ip = { address: '192.168.0.2', mask: '255.255.255.0' };  
  
console.log({ ...ip, version: 'v4' });  
//=> {address: "192.168.0.2", mask: "255.255.255.0", version: "v4"}
```

# Property Shorthand

```
const address = '192.168.0.2';
```

```
const mask = '255.255.255.0';
```

```
const version = 'v4';
```

```
console.log({ address: address, mask: mask, version: version });
```

```
console.log({ address, mask, version });
```

```
//=> {address: "192.168.0.2", mask: "255.255.255.0", version: "v4"}
```

# Iteração

```
const ips = [  
  { address: '192.168.0.2', mask: '255.255.255.0' },  
  { address: '192.168.0.10', mask: '255.255.255.0' },  
  { address: '192.168.0.26', mask: '255.255.255.0' },  
];  
  
for (const ip of ips) {  
  console.log(ip.address + '/' + ip.mask);  
}
```

# Iteração

```
const ips = {  
  database: { address: '192.168.0.2', mask: '255.255.255.0' },  
  dns: { address: '192.168.0.10', mask: '255.255.255.0' },  
  http: { address: '192.168.0.26', mask: '255.255.255.0' },  
};  
  
for (const host in ips) {  
  console.log(ips[host].address + '/' + ips[host].mask);  
}
```

# Objeto JSON

```
console.log(JSON.parse('{"value": 10}')); //=> { value: 10 }
```

```
console.log(JSON.stringify({ value: 10 })); //=> '{"value": 10}'
```

# Obrigada!

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