

Black & White Series

Array and Object Literals

Array Literal

```
[ 'Mon', 'Tue', 'Wed',  
  'Thu', 'Fri', 'Sat',  
  'Sun' ]
```

obj: Array	
0:	"Mon"
1:	"Tue"
2:	"Wed"
3:	"Thu"
4:	"Fri"
5:	"Sat"
6:	"Sun"

Array Literal Use

```
[<value1>, ..., <valuen>]
```

```
const daysOfWeek = ['Mon', 'Tue', 'Wed', 'Thu', 'Fri', 'Sat', 'Sun']
const day = Math.trunc(Math.random() * 7)
console.log('Weekday: ' + day + ' - ' + daysOfWeek[day])
console.log(daysOfWeek)
```

```
Weekday: 0 - Mon
["Mon", "Tue", "Wed", "Thu", "Fri", "Sat", "Sun"]
```

Simple Object Literals

```
{ }
```

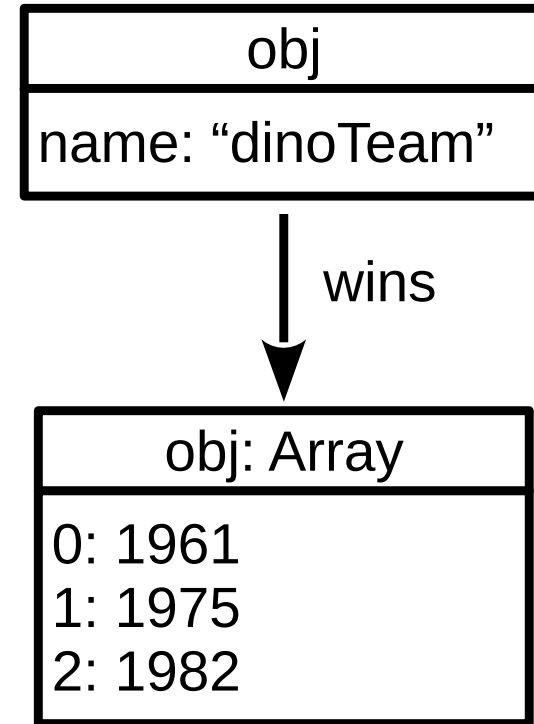
empty

```
{  
  "name": "Asdrubal",  
  "age"  : 25  
}
```

obj
name: "Asdrubal" age: 25

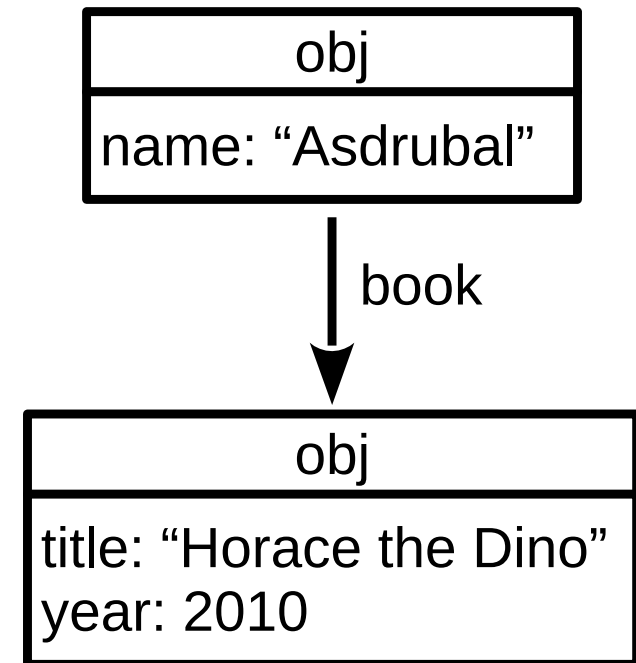
Object Literal with Array

```
{  
  "team": "dinoTeam",  
  "wins": [1961, 1975, 1982]  
}
```



Object inside Object

```
{  
  "name": "Asdrubal",  
  "book": {  
    "title": "Horace the Dino",  
    "year" : 2010  
  }  
}
```



JSON

JavaScript Object Notation

- Open object exchange standard
- Based on JavaScript object literal
- Incorporated into ECMAScript (2011)
- Adopted by several languages
 - <http://json.org/>

Object Literal

```
{  
  <attr1>: <value1>  
  ...  
  <attrn>: <valuen>  
}
```

- `<attr>`
 - without quotes - as a variable name
 - with quotes - any valid string
 - JSON requires quotes

Object Literal

```
{  
  <attr1>: <value1>  
  ...  
  <attrn>: <valuen>  
}
```

- **<value>**
 - any literal
 - number, string, array, or another object

Example - Dot Notation

```
const author = {  
  name: 'Asdrubal',  
  age: 25  
}  
console.log(author.name)  
author.age = 30  
console.log(author)
```

```
Asdrubal  
{name: "Asdrubal", age: 30}
```

Example - Bracket Notation

```
const author = {  
  name: 'Asdrubal',  
  age: 25  
}  
console.log(author['name'])  
author['age'] = 30  
console.log(author)
```

```
Asdrubal  
{name: "Asdrubal", age: 30}
```

Object as a Dictionary

```
const author = {  
  'First Name': 'Asdrubal',  
  'Last Name': 'Montequio'  
}  
console.log(author['First Name'])  
  
const ln = 'Last Name'  
author[ln] = 'Capuleto'  
console.log(author)
```

```
Asdrubal  
{First Name: "Asdrubal", Last Name: "Capuleto"}
```

References

- Mozilla MDN - <https://developer.mozilla.org>
- Eloquent JavaScript -
<https://eloquentjavascript.net/>

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Web2Learn

santanche.github.io/web2learn/