

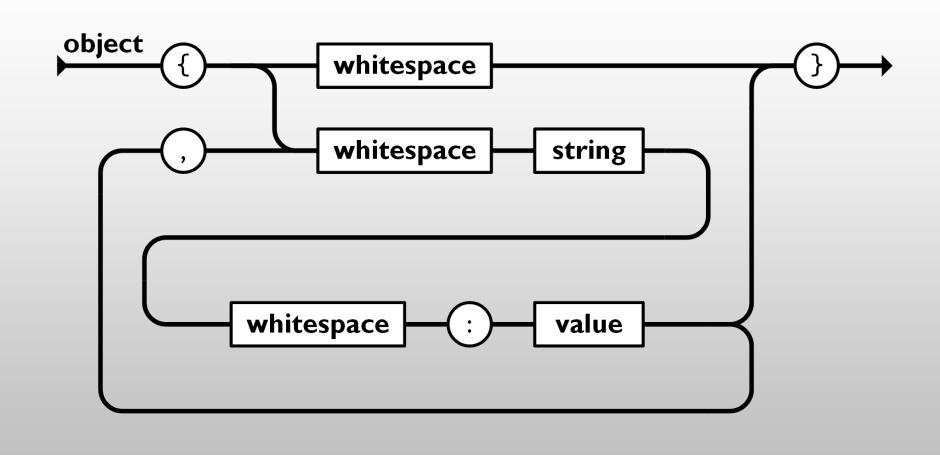




WHAT ARE THEY

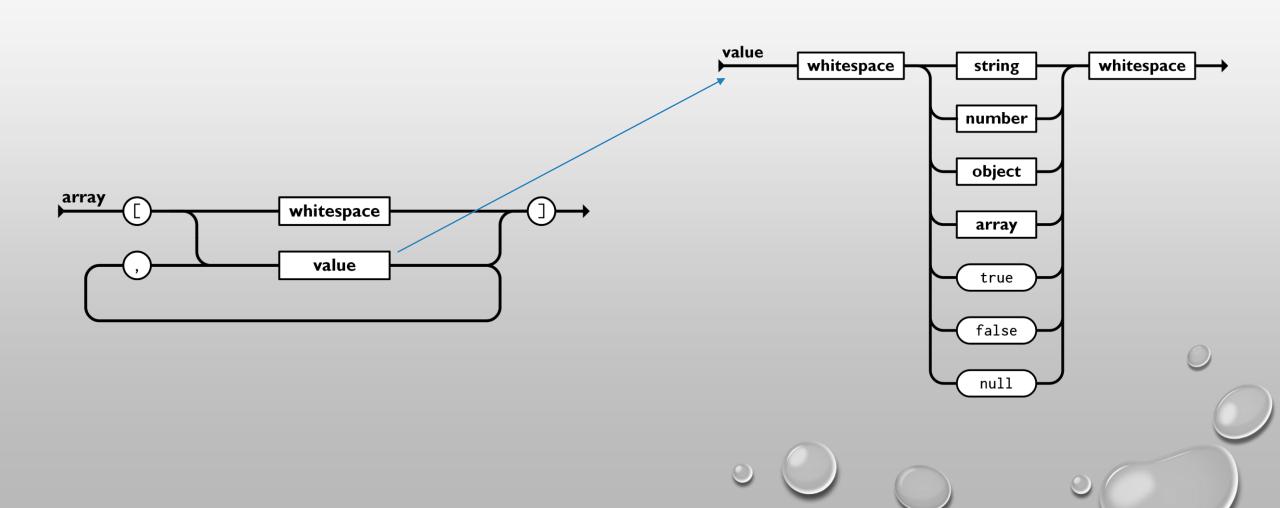
(A) An object literal is a comma-separated list of name: value pairs inside of curly brace.

The values can be arrays, standard data types as well as other objects (Remember: functions are objects...)





ARRAY USE



```
let account = {
   customer: "Default (Unknown)",
   id: 0
}
```

- 1. Must use surrounding/enclosing brackets.
- 2. name: standard data type
- 3. use a comma between pairs

EXAMPLE

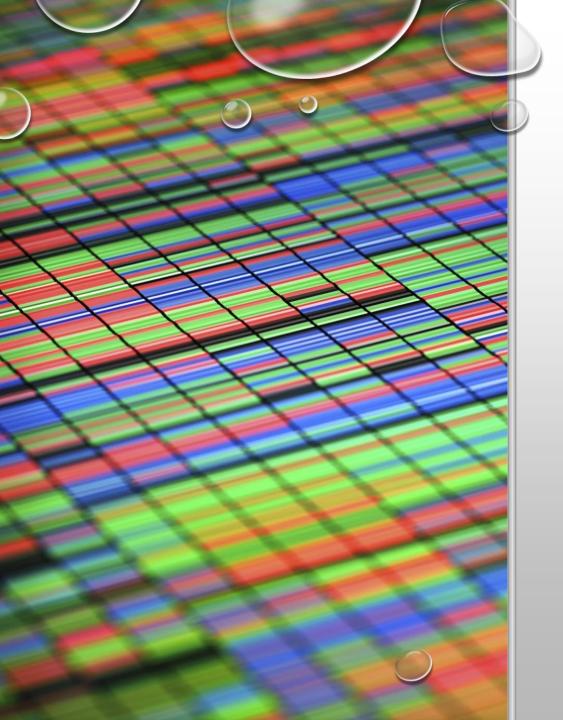


```
let account = {
   client: undefined,
   id: 0
};
```

let account = { client: undefined, id: 0 };

EMPTY LITERAL IS ACCEPTABLE

let account $= \{ \};$



KEYS WITH SPACE

```
let account = {
    client: undefined,
    'my key': 0
};
```



```
let book = {
  isbn-10 : '01234567890',
  isbn-13 : '01234567890123',
  author : {
    fullname : 'Not Real',
    rating : 5
  }
}
```

EMBEDDED DOCUMENTS

WITH FUNCTIONS

```
let book = {
   isbn-10 : '01234567890',
   isbn-13: '01234567890123',
   author : {
      fullname: 'Not Real',
      rating: 5
   getName: () => {
      return this.fullname;
```

```
let book = {
    1 : 'one',
    2 : 'two',
    3 : 'three'
}
let book = {
    '1' : 'one',
    '2' : 'two',
    '3' : 'three'
}
```

NUM8ERS AS KEYS

Numbers can be used as object literal keys, but they will automatically be converted to strings

NEW OBJECT()

VS

{ }

There is no difference

```
let book = {
    isbn-10 : '01234567890',
    isbn-13 : '01234567890123',
    author : {
        fullname : 'Not Real',
        rating : 5
    }
    getName: () => {
        return this.author.fullname;
    }
}
```

```
let book = new Object();
book.isbn-10 = '01234567890';
book.isbn-13 = '01234567890123';
book.author.fullname = 'Not Real';
book.author.rating = 5;
book.getName = () => {
  return this.author.fullname;
}
```

GETTER & SETTER

```
let course = {
    section : 'A1',
    get abbreviation() {
       return this.section;
    },
    set abbreviation(abbrev) {
       this.section = abbrev;
    }
}
```

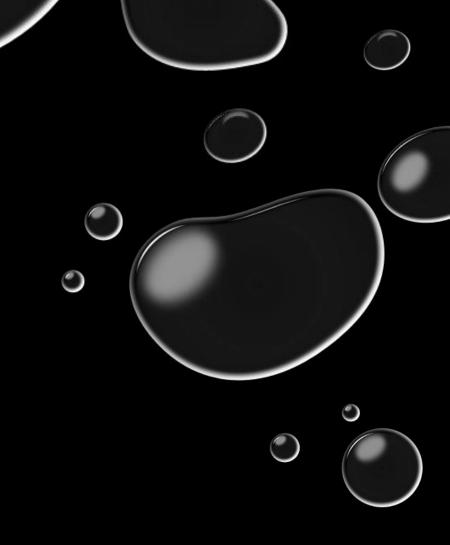
console.log(course.abbreviation);

EXAMPLE

```
function getMonthName (monthNo) {
    let names = {
      "1": "January",
      "2": "February",
      "3": "March",
      "4": "April",
      "5": "May",
      "6": "June",
      "7": "July",
      "8": "August",
      "9": "September",
      "10": "October",
      "11": "November",
      "12": "December"
    return names[monthNo] || "Invalid";
  let monthName = getMonthName(1);
  console.log(monthName); //January
  monthName = getMonthName(13);
  console.log(monthName); //Invalid
```

JSON

JavaScript provides a global JSON object that has methods available for converting between the serialization and deserialization.





Converting a string to a native object is called deserialization

Converting a native object to a string is called serialization

DESERIALIZATION/ SERIALIZATION

JSON.PARSE()



```
JavaScript Demo: JSON.parse()
1 const json = '{"result":true, "count":42}';
  const obj = JSON.parse(json);
4 console.log(obj.count);
  // Expected output: 42
  console.log(obj.result);
  // Expected output: true
```

JSON.STRINGIFY()



```
JavaScript Demo: JSON.stringify()
 1 console.log(JSON.stringify({ x: 5, y: 6 }));
   // Expected output: '{"x":5,"y":6}'
   console.log(JSON.stringify([new Number(3), new String('false'), new Boolean(false)]));
   // Expected output: '[3,"false",false]'
   console.log(JSON.stringify({ x: [10, undefined, function () {}, Symbol('')] }));
   // Expected output: '{"x":[10,null,null,null]}'
10 console.log(JSON.stringify(new Date(2006, 0, 2, 15, 4, 5)));
   // Expected output: '"2006-01-02T15:04:05.000Z"'
12
```