Javascript Objects

- description : Javascript Object Definitions
- author :
- email : shlim@repia.com
- lastupdate : 2021-04-29

The source of this article

[Javascript Object Definitions](#)
JavaScript , (objects,) King . , JavaScript
.

JavaScript " " .

- Booleans (new)
- Numbers (new)
- Strings (new)
- Dates .
- Maths .
- Regular Expressions( ) .
- Arrays .
- Functions .
- .

(primitive values,) JavaScript .

JavaScript Primitives

(primitive value) .

(primitive data type) .

JavaScript 5 .

- string
- number
- boolean
- null
- undefined

( )

x = 3.14   x   .   3.14   .

value	Type	Comment
"Hello"	string	"Hello" is always "Hello"
3.14	number	3.14 is always 3.14
true	boolean	true is always true
false	boolean	false is always false
null	null (object)	null is always null
undefined	undefined	undefined is always undefined

Objects are Variables

JavaScript   .

```
// Create and display a variable:
let person = "John Doe";
document.getElementById("demo").innerHTML = person;
```

.   .

name : value   (   )   .

```
let person = {
  firstName: "John",
  lastName: "Doe",
  age: 50,
  eyeColor: "blue"
};

document.getElementById("demo").innerHTML = person.firstName + " " +
person.lastName;  // John Doe
```

```
JavaScript                              .
```

Object Properties

JavaScript   (properties)   .

Property	Value
firstName	John
lastName	Doe
age	50
eyeColor	blue

(name value pairs) :

- PHP (Associative arrays)
- Python (Dictionaries)
- C (Hash tables)
- Java (Hash maps)
- Ruby Perl (Hashes)

Object Methods

(actions) .

, .

(function definition) .

Property	Value
firstName	John
lastName	Doe
age	50
eyeColor	blue
fullName	function() {return this.firstName + " " + thisllastName;}

JavaScript (properties) (methods) (named values) .

Creating a JavaScript Object

JavaScript .

.

- .
- new .
- , .

ECMAScript 5 ``Object.create()`` .

Using an Object Literal

JavaScript   .

                                                                                                                          .

                             {}   :   (, age:50)   .

                                                 JavaScript   .

```
let person = { firstName: "John", lastName: "Doe", age: 50, eyeColor: "blue"
};

document.getElementById("demo").innerHTML = person.firstName + " is " +
person.age + " years old.";
```

     (spaces)   (line breaks)   .
             .

```
let person = {
  firstName: "John",
  lastName: "Doe",
  age: 50,
  eyeColor: "blue"
};

document.getElementById("demo").innerHTML = person.firstName + " is " +
person.age + " years old.";   // John is 50 years old.
```

Using the JavaScript Keyword new

                         4   (properties)   JavaScript   .

```
let person = new Object();
person.firstName = "John";
person.lastName = "Doe";
person.age = 50;
person.eyeColor = "blue";

document.getElementById("demo").innerHTML = person.firstName + " is " +
person.age + " years old.";   // John is 50 years old.
```

. ''new Object()'' .
(simplicity), (readability) (execution speed) ,
( ) .

JavaScript Objects are Mutable

: (value) (reference) .

person , person .

```javascript
var x = person; // This will not create a copy of person.
```

x person . person . x person .

x person . x person .

```javascript
let person = { firstName: "John", lastName: "Doe", age: 50, eyeColor: "blue"
}

let x = person;
x.age = 10;

document.getElementById("demo").innerHTML = person.firstName + " is " +
person.age + " years old.";  // John is 10 years old.

console.log(person); // {firstName: "John", lastName: "Doe", age: 10,
eyeColor: "blue"}
console.log(x);      // {firstName: "John", lastName: "Doe", age: 10,
eyeColor: "blue"}
```

, Javascript, Objects, Definitions