Javascript Objects

- description : Javascript Object Constructors
- author :
- email : shlim@repia.com
- lastupdate : 2021-05-03

The source of this article

[Javascript Object Constructors]

```javascript
// Constructor function for Person Objects
function Person(first, last, age, eye) {
  this.firstName = first;
  this.lastName = last;
  this.age = age;
  this.eyeColor = eye;
}

// Create a Person object
let myFather = new Person("Anthony", "Young", 50, "green");

// Display age
document.getElementById("demo").innerHTML =
"My father is " + myFather.age + ".";        // My father is 50.
```

(constructor function)   .

Object Types (Blueprints) (Classes)

(JS Object Constructors)   .   .

"type"   "   "   .

"   "   **(object constructor function)**
     .

function Person()   .

new   .

```javascript
// Constructor function for Person objects
function Person(first, last, age, eye) {
  this.firstName = first;
  this.lastName = last;
  this.age = age;
  this.eyeColor = eye;
}

// Create two person objects
let myFather = new Person("John", "Doe", 50, "blue");
let myMother = new Person("Sally", "Rally", 48, "green");

// Display age
document.getElementById("demo").innerHTML =
  "My father is " + myFather.age + ". My mother is " + myMother.age + ".";
  // My father is 50. My mother is 48.
```

The this Keyword

JavaScript   this   "   "   .

this   .

                   , this   ,   .
this   .

```
''this''                              .            . ''this''                                  .
```

Adding a Property to an Object

                                                        .

Example

```javascript
// Constructor function for Person objects
function Person(first, last, age, eye) {
  this.firstName = first;
```

```
  this.lastName = last;
  this.age = age;
  this.eyeColor = eye;
}

// Create 2 Person objects
let myFather = new Person("John", "Doe", 50, "blue");
let myMother = new Person("Sally", "Rally", 48, "green");

// Add nationality to first object
myFather.nationality = "English";

// Display nationality
document.getElementById("demo").innerHTML =
  "My father is " + myFather.nationality;    // My father is English
```

myMother   (person   ) myFather   .

Adding a Method to an Object

:

Example

```
// Constructor function for Person Objects
function Person(first, last, age, eye) {
  this.firstName = first;
  this.lastName = last;
  this.age = age;
  this.eyeColor = eye;
}

// Create 2 Person objects
let myFather = new Person("John", "Doe", 50, "blue");
let myMother = new Person("Sally", "Field", 48, "green");

// Add a name method to first object
myFather.name = function () {
  return this.firstName + " " + this.lastName;
};

// Display full Name
document.getElementById("demo").innerHTML =
  "My father is " + myFather.name();      // My father is John Doe
```

Adding a Property to a Constructor

.

Example

```javascript
// Constructor function for Person objects
function Person(first, last, age, eye) {
  this.firstName = first;
  this.lastName = last;
  this.age = age;
  this.eyeColor = eye;
}

// You can NOT add a new property to a constructor function
Person.nationality = "English";

// Create 2 Person objects
let myFather = new Person("John", "Doe", 50, "blue");
let myMother = new Person("Sally", "Rally", 48, "green");

// Display nationality
document.getElementById("demo").innerHTML =
  "The nationality of my Father is " + myFather.nationality;
    // The nationality of my Father is undefined
```

,   .

Example

```javascript
// Constructor function for Person objects
function Person(first, last, age, eye) {
  this.firstName = first;
  this.lastName = last;
  this.age = age;
  this.eyeColor = eye;
  this.nationality = "English";
}

// Create 2 Person objects
let myFather = new Person("John", "Doe", 50, "blue");
let myMother = new Person("Sally", "Rally", 48, "green");

// Display nationality
```

```
document.getElementById("demo").innerHTML =
  "My father is " + myFather.nationality + ". My mother is " +
myMother.nationality;
  // My father is English. My mother is English
```

(default values)   .

Adding a Method to a Constructor

.

Example

.

.

Example

changeName()   person   lastName   .

Now You Can Try:

JavaScript   **this**   myMother   "   "   person   .

Built-in JavaScript Constructors

JavaScript   (built-in constructor)   .

Example

Did You Know?

, JavaScript   (primitive data types)
String, Number   Boolean   .
                                    .   (primitive values)   .

    :

new Object()   {}   .

new String()   ""   .

new Number()   12345   .

new Boolean()   true / false   .

new Array()   []   .

new RegExp()   /()/   .

new Function()   () {}   .

Example

, Javascript, Objects, Constructors