面向对象的JavaScript

对象属性 创建对象 继承

对象属性 – 般方法

```
person.a = 1;
person["a"] = 1;
person = {a: 1};
```

对象属性 – 数据属性

```
var person = {};
Object defineProperty person, "name", {
    writable: false,
    value: "Nicholas"
});

alert(person.name); //"Nicholas"
person.name = "Greg";
alert(person.name); //"Nicholas"
```

configurable

enumerable

writable

value

对象属性一访问器属性

```
var book = {
    __year: 2004,
    edition: 1
};

Object.defineProperty(book, "year", {
    get: function() {
        return this._year;
    },
    set: function(newValue) {

        if (newValue > 2004) {
            this._year = newValue;
            this.edition += newValue - 2004;
      }
});

book.year = 2005;
alert(book.edition); //2
```

configurable

enumerable

get

set

创建对象-工厂模式

```
function createPerson(name, age, job) {
    var o = new Object();
    o.name = name;
    o.age = age;
    o.job = job;
    o.sayName = function() {
        alert(this.name);
    };
    return o;
}

var person1 = createPerson("Nicholas", 29, "Software Engineer");
var person2 = createPerson("Greg", 27, "Doctor");
```

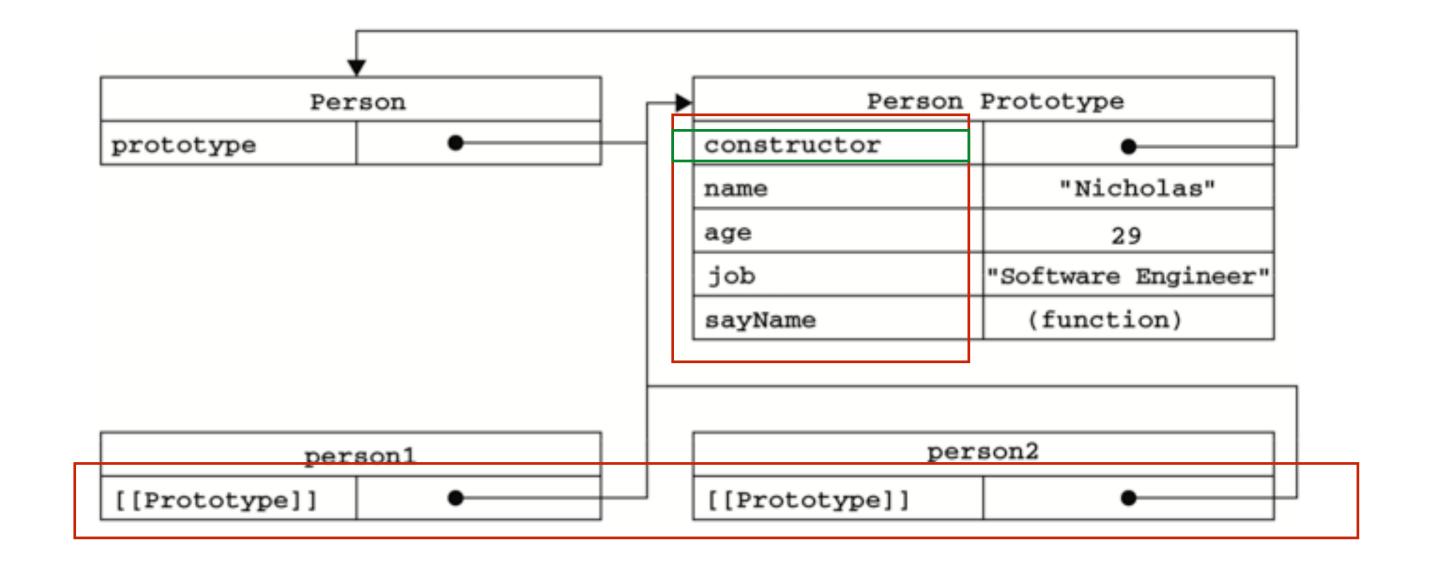
创建一构造函数

```
function Person(name, age, job) {
    this.name = name;
    this.age = age;
    this.job = job;
    this.sayName = function(){
       alert(this.name);
    };
var person1 = new Person("Nicholas", 29, "Software Engineer");
var person2 = new Person("Greg", 27, "Doctor");
     > function a() { return 1; } new a() instanceof a
     < true</pre>
     > function a() { return {}; } new a() instanceof a
     false
     > function a() { } new a() instanceof a
     < true
```

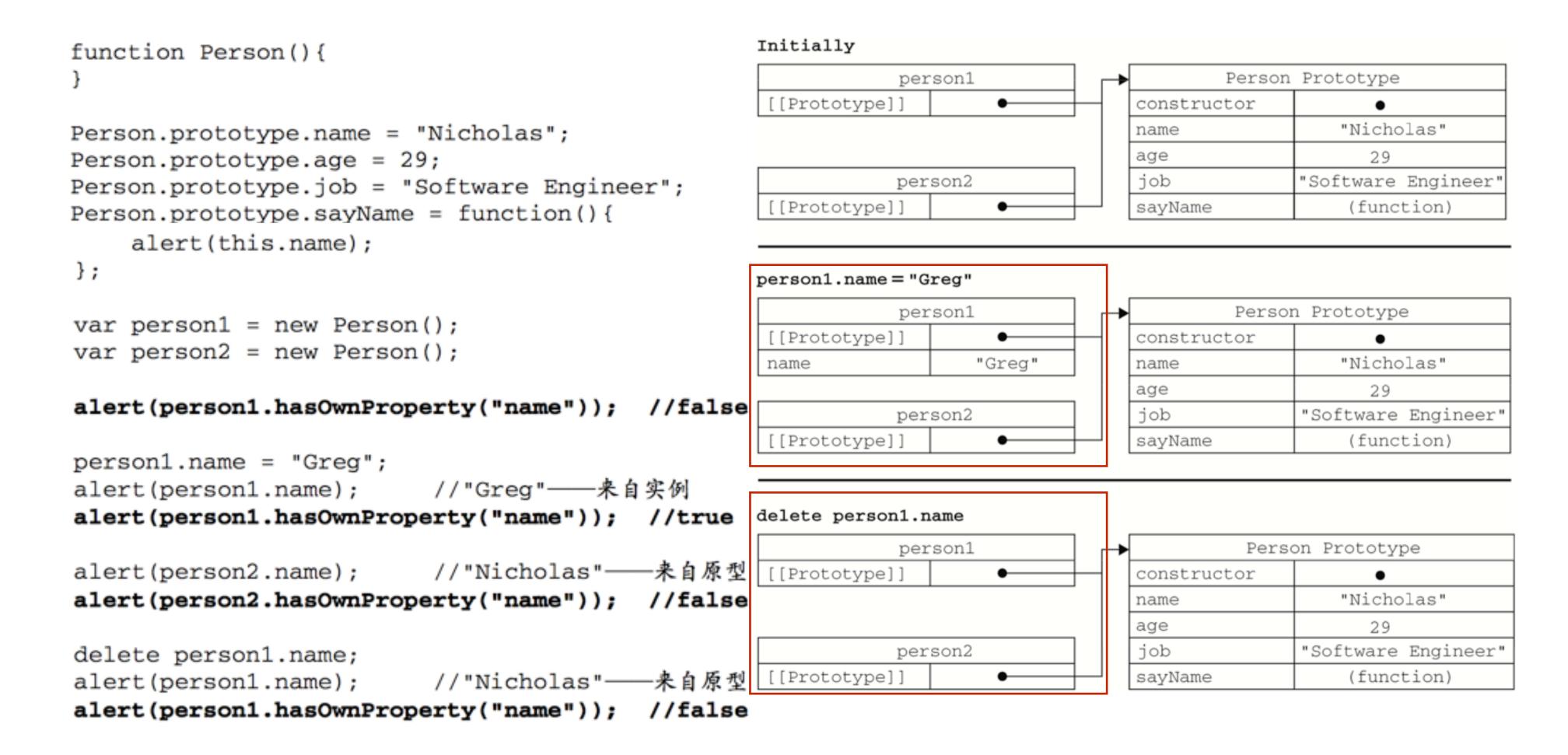
创建对象-原型模式

```
function Person(){
Person.prototype.name = "Nicholas";
Person.prototype.age = 29;
Person.prototype.job = "Software Engineer";
Person.prototype.sayName = function(){
    alert(this.name);
var person1 = new Person();
person1.sayName(); //"Nicholas"
var person2 = new Person();
person2.sayName(); //"Nicholas"
alert(person1.sayName == person2.sayName); //true
```

创建对象-原型模式



创建对象一实例属性和原型属性



in

```
function Person(){
Person.prototype.name = "Nicholas";
Person.prototype.age = 29;
Person.prototype.job = "Software Engineer";
Person.prototype.sayName = function() {
   alert(this.name);
};
var person1 = new Person();
var person2 = new Person();
alert(person1.hasOwnProperty("name")); //false
alert("name" in person1); //true
person1.name = "Greg";
alert(person1.name); //"Greg" ——来自实例
alert(person1.hasOwnProperty("name")); //true
alert("name" in person1); //true
alert(person2.name); //"Nicholas" ——来自原型
alert(person2.hasOwnProperty("name")); //false
alert("name" in person2); //true
delete person1.name;
alert(person1.name); //"Nicholas" ——来自原型
alert(person1.hasOwnProperty("name")); //false
alert("name" in person1); //true
```

for in

创建对象-组合

构造函数的问题原型的问题

创建对象-组合

```
function Person(name, age, job) {
   this.name = name;
    this.age = age;
    this.job = job;
    this.friends = ["Shelby", "Court"];
Person.prototype = {
    constructor : Person,
    sayName : function(){
        alert(this.name);
var person1 = new Person("Nicholas", 29, "Software Engineer");
var person2 = new Person("Greg", 27, "Doctor");
person1.friends.push("Van");
alert(person1.friends); //"Shelby,Count,Van"
alert(person2.friends); //"Shelby,Count"
alert(person1.friends === person2.friends);
                                               //false
alert(person1.sayName === person2.sayName);
                                              //true
```

继承