Samuil Gospodinov



Every object is build by a constructor function.

Every constructor call creates a brand new object.

A constructor creates an object **based on** it's own prototype.

A constructor creates an object that is **linked to** it's own prototype.

```
1 function Chovek(ime) {
       this.ime = ime;
   Chovek.prototype.koisSumAz = function() {
       return "Az sum " + this.ime;
6 };
8 var pesho = new Chovek('Pesho');
  var ivan = new Chovek('Ivan');
10
  ivan.govori = function () {
       console.log("Privet, " + this.koisSumAz + '.');
12
13
  };
14
   pesho.constructor === Chovek;
   pesho.constructor === ivan.constructor;
   pesho. proto === Chovek.prototype;
   pesho.__proto__ === ivan.__proto__;
```

```
1 function Chovek(ime) {
       this.ime = ime;
   Chovek.prototype.koisSumAz = function() {
       return "Az sum " + this.ime;
  };
   var pesho = new Chovek('Pesho');
  var ivan = new Chovek('Ivan');
10
   ivan.govori = function () {
       console.log("Privet, " + this.koisSumAz + '.');
12
13 };
14
   pesho.__proto__ === Object.getPrototypeOf(pesho);
  ivan.constructor === Chovek;
   pesho. proto == ivan. proto ;
  ivan. proto == ivan.constructor.prototype;
```

```
1 function Chovek(ime) {
       this.ime = ime;
   Chovek.prototype.koisSumAz = function() {
       return "Az sum " + this.ime;
 6
   };
   var pesho = new Chovek('Pesho');
   pesho.koisSumAz(); // 'Az sum Pesho'
10
   pesho.koisSumAz = function() { // <- Shadowing</pre>
       console.log("Privet, " +
12
           Chovek.prototype.koisSumAz.call(this) + '.'
13
       );
14
15 };
16
   pesho.koisSumAz(); // 'Privet, Az sym Pesho'
```

### Prototype example 7 Super Unicorn Magic

```
1 function Chovek(ime) {
       this.ime = ime;
   Chovek.prototype.koisSumAz = function() {
       return "Az sum " + this.ime;
 6 };
   Chovek.prototype.kazvamSe = function() { // <- Shadowing</pre>
       console.log("Privet, " +
           this.koisSumAz() +
10
11
12
        );
13 };
14
   var pesho = new Chovek('Pesho');
   pesho.koisSumAz(); // 'Privet, Az sym Pesho'
```

```
1 function Chovek(ime) {
       this.ime = ime;
   Chovek.prototype.koisSumAz = function() {
       return "Az sum " + this.ime;
   };
   function Programist(ime) {
       Chovek.call(this, ime);
10
11 //Programist.prototype = new Chovek(); //ILI...
12 Programist.prototype = Object.create(Chovek.prototype);
   // .constructor e chupen ve4e, trqbva da se opravi
14
   Programist.prototype.kazvamSe = function () {
       console.log('Privet! ' + this.koisSumAz() + '.');
17 };
18
19 var pesho = new Programist('Pesho');
   var ivan = new Programist('Ivan');
21
   pesho.kazvamSe(); // 'Privet! Az sum Pesho.'
23 ivan.kazvamSe(); // 'Privet! Az sum Ivan'.
```

# **Prototype Quiz**

- 1. What is a constructor?
- 2. What is .constructor?
- 3. What is a [[Prototype]] and where does it comes from?
- 4. How does a [[Prototype]] affect an object?
- 5. How do we find out where an object's [[Prototype]] points to?

#### Reminder example 9

```
1 function Chovek(ime) {
       this.ime = ime;
   Chovek.prototype.koisSumAz = function() {
       return "Az sum " + this.ime;
   var pesho = new Chovek('Pesho');
 9
10 $('#govori').on('click', pesho.koisSumAz);
```

# **Good Luck and Happy Coding**