

V = variable value / var.

console

① ★ Constructor function

② ★ P1
↳ x
↳ y
↳ prototype

particle.prototype
↳ show()
↳ - proto -

★ P2
↳ x
↳ y
↳ prototype

prototype chaining

Implemented

down

```
function Particle() {
  this.x = 100;
  this.y = 99;
}
```

```
var p = new Particle();
p
  ↳ x
  ↳ y
  ↳ - proto - : object
```

```
function particle() {
  //
  this.show = function() {
    point(this.x, this.y);
  }
}
```

```
var p;
function setup() {
  createCanvas(600, 300);
  p = new Particle();
}
```

```
p
  ↳ show: ()
  x: 100
  y: 99
  ↳ - proto - : object
```

```
var p2 = new particle();
p2
  p2.x++
  ↳ show()
  x: 110
  y: 99
  ↳ - proto - : object
```

```
function Particle() function particle() {
  //
  // not show function.
}
```

```
particle.prototype.show = show function() {
  point(this.x, this.y);
}
```

```
var p;
```

// just code remain same.

```
p
  ↳ x
  ↳ y
  ↳ - proto - : object
  ↳ constructor
    particle
  ↳ show: ()
  ↳ .proto - : object.
```

now see ②

V = createVector(3, 4);

⇒ Interesting

hasOwnProperty

p.hasOwnProperty('2');

p.hasOwnProperty('show');

false

↳ properties individual
to that particular instance

this is prototype chain

console

→ V.mag()

→ V.mult(2)

→ V.double()

Uncaught type error

↳ p.p.s

↳ x: 6

↳ y: 8

↳ z: 0

all function are in

- proto - object

all these properties are
for that particular instance

p = Vector.prototype.double
= function() {

this.x *= 2;

this.y *= 2;

this.z *= 2;

}