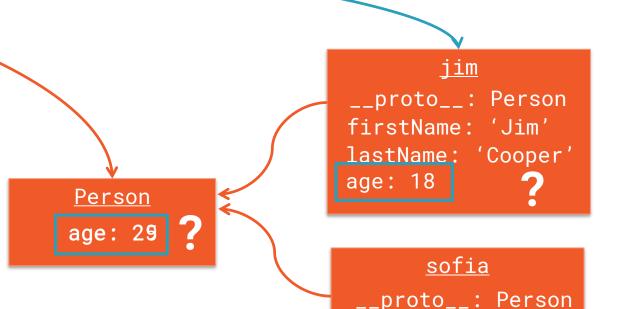
JavaScript Prototypes and Inheritance



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```
function Person(firstName, lastName) {
  this.firstName = firstName;
  this.lastName = lastName;
 prototype:
Person.prototype.age = 29;
let jim = new Person('Jim', 'Cooper');
let sofia = new Person('Sofia', 'Cooper');
Comsage. log&jim.age); // 29
Console.log(jim.age); // 18
Person.prototype.age = 25;
jim.__proto__.age = 25;
Console.log(jim.age); // 18
Console.log(sofia.age); // 25
```



firstName: 'Sofia'

lastName: 'Cooper'

```
function Person(firstName, lastName) {
  this firstName = firstName;
  this lastName = lastName;
  prototype:
```

```
Person.pi
let jim
let sofia
```

A function's prototype: The object instance that will become the prototype for all objects created using this function as a constructor.

Çòmsage.

An object's prototype: The object instance from which the object is inherited.

Console.

Person.pl

```
jim.__proto__.age = 25;
Console.log(jim.age); // 18
Console.log(sofia.age); // 25
```

```
jim
    Person
    'Jim'
   'Cooper'
```

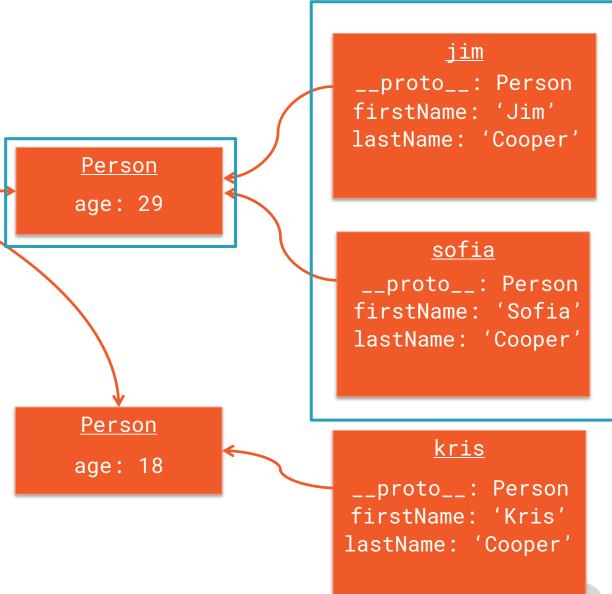
ofia

o : Person me: 'Sofia'

<u> rastname: 'Cooper'</u>



```
function Person(firstName, lastName) {
  this.firstName = firstName;
  this.lastName = lastName;
  prototype: -
Person.prototype.age = 29;
let jim = new Person('Jim', 'Cooper');
let sofia = new Person('Sofia', 'Cooper');
Person.prototype = { age: 18 };
let Kris = new Person('Kris', 'Cooper');
```



Summary



```
function Person(firstName, lastName) {
  this.firstName = firstName;
  this.lastName = lastName;
  prototype:
                                            jim
                                     __proto__: Person
                                     firstName: 'Jim'
                                     lastName: 'Cooper'
                                     age: 18
                 <u>Person</u>
                 age: 25
                                           <u>sofia</u>
                                      __proto__: Person
                                     firstName: 'Sofia'
                                     lastName: 'Cooper'
```



Summary



```
function Person() {
function Student() {
  Person.call(this, ...);
Student.prototype =
  Object.create(Person.prototype);
```