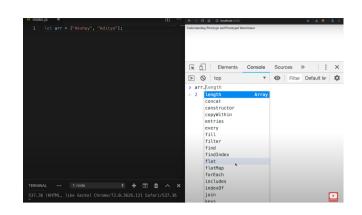
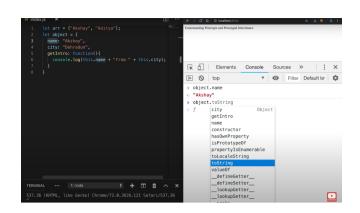
Prototype and Prototypal Inheritance in JavaScript

Thursday, 24 August 2023 7:58 PM



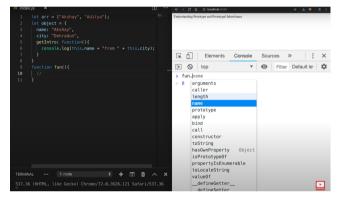


Thou are arrays & objects getting access to these inbuilt f's?

-> these are where prototypes come to picture.

Whenever we croate a 35 object, 75 engine automatically attaches the Object with some hidden properties & frs which can be accessed using (dot) operators

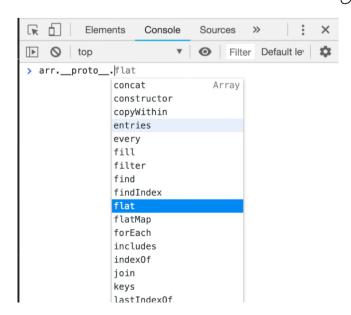
- Even of howe access to some hilden properties. Like call apply of bind or-

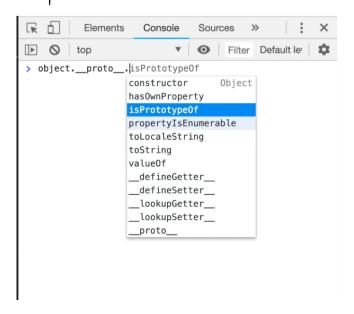


This is called prototype.

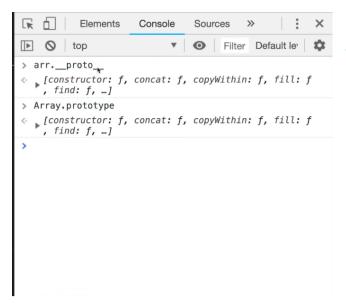
Initially parts there hilden properties inside an street & attaches it to your object. This is how we get access to those properties & mothods.

-9 __ proto__ is the street where Is is putting all these hidden on which can be accessed using (dot) operator.





-> This _ iproto_ object is attached to our object.



-> or __proto__ 15 same as Array prototype.

> arr.__proto__ [constructor: f, concat: f, copyWithin: f, fill: f > Array.prototype [constructor: f, concat: f, copyWithin: f, fill: f , find: f, ...] > arr.__proto__.__proto__ {constructor: f, __defineGetter__: f, __defineSett > er__: f, hasOwnProperty: f, __lookupGetter__: f, ... {constructor: f, __defineGetter__: f, __defineSett ▶er_: f, hasOwnProperty: f, _lookupGetter_: f, ... > arr.__proto__.__proto__.__pro%o__

-) Now arr_ proto_ is same as Array proto type - Array, photo type & __profo_ Which is arr. _ proto _ _ is some as

Object. prototype. -> If we find the prototype of object prob type, it will be arr. __proto__-_proto__- __proto__ which is null.

- This is known as prototype draining.

```
{constructor: f, __defineGetter__: f, __defineSett
▶ er__: f, hasOwnProperty: f, __lookupGetter__: f, ...
> Object.prototype
⟨ {constructor: f, __defineGetter__: f, __defineSett
| er__: f, hasOwnProperty: f, __lookupGetter__: f, ...
> object.__proto__._proto__
< null
```

-> spicat. _ proto_ = Sect. prototype -> So it we find sheet, __photo__, it will be hull.

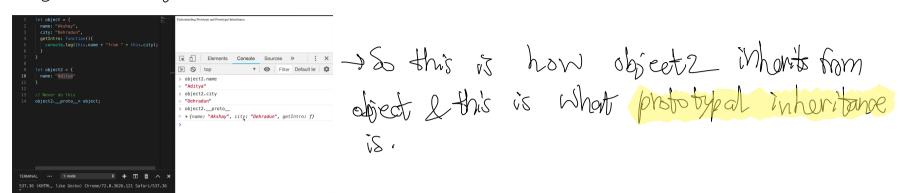
> fun.__proto__ < f () { [native code] } > Function.prototype <- f () { [native code] } {constructor: f, __defineGetter__: f, __defineSett ▶ er__: f, hasOwnProperty: f, __lookupGetter__: f, ... > Object.prototype {constructor: f, __defineGetter__: f, __defineSett ▶er_: f, hasOwnProperty: f, _lookupGetter_: f, ...

- In case of F's, f'__pndo____ tunction prototype which is nothing. - If we do fun. - [proto___ _ proto___ we get Object prototype.

- so, basically everything in is our object.

- We should never do this, but if we change where object?-_proto_ points than we can get access to that object's variables & methods after doing This.

-> 50, after like 14, if we try to access object? Sity, so first IS will check the man direct for city, then It will check the -- proto -- if it doesn't find city in main object, if there also it is not present then it will go to the -- proto -- of -- proto -- . So that's how it goes through the whole chain.



-> Thus, object 2 is inheriting properties from skeet.

7 Con we access or using inharitance?

ans. Yes, we can 1

W	
<pre>> object.getIntro()</pre>	
Akshayfrom Dehradun	<pre>index.js:5</pre>
<- undefined	
<pre>> object2.getIntro()</pre>	
Adityafrom Dehradun	<u>index.js:5</u>
<pre><- undefined</pre>	

> 50 in 2nd case, this keyword points to object 2 l gots name from object 2. But when it does not find city in spect 2, it

goes through the prototype chain and access "city" from object.

Note Now, when we use Function, prototype we set the mybrid of final function (prototype we set the mybrid of final function (prototype with the mybrid of final f