EXAMPLE 49: OVERRIDING PROPERTIES USING PROTOTYPES - TWO METHODS

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THERE ARE 2 WAYS TO OVERRIDE AN OBJECT PROPERTY

- OVERRIDE FOR A SPECIFIC OBJECT ONLY
- OVERRIPE FOR ALL OBJECTS BUILT WITH A PARTICULAR CONSTRUCTOR

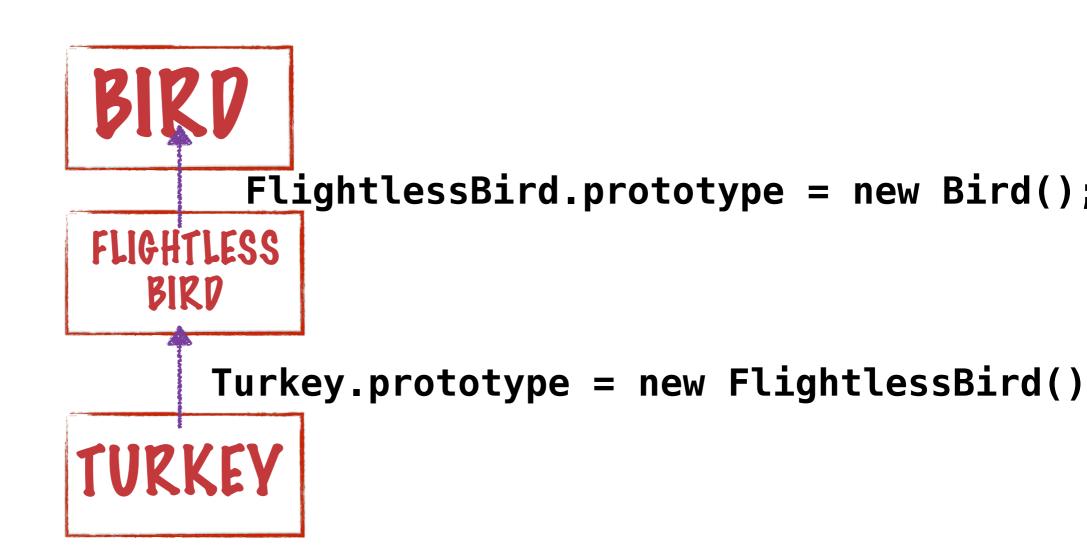
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AN INHERITANCE HIERARCHY USING CHAINED PROTOTYPES

3 OBJECT CONSTRUCTO



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```
function Bird() {
 this.sayHello = function() {
   console.log("I am a bird, of type = " +
this.name);
 this.fly = function() {
   console.log("I am flying!!");
  function FlightlessBird() {
   this.fly = function() {
      console.log("I can't fly, even though
   function Turkey(){
     this.name = "Turkey";
```

3 OBJECT CONSTRUCTO



```
function Bird() {
   this.sayHello = function() {
     console.log("I am a bird, of type = " +
   this.name);
   }
  this.fly = function() {
     console.log("I am flying!!");
  }
}
ghtlessBird.prototype = new Bird()
  function FlightlessBird() {
   this.fly = function() {
     console.log("I can't fly, even though
   }
}
```

THE PROPERTY fly APPEARS BOTH IN THE Bird OBJECT AND IN THE FlightlessBird OBECT - SO IF THIS IS CALLED ON A Turkey OR, THE FlightlessBird VERSION WILL BE CALLED.

this.name);

```
var turkey1 = new Turkey();
  turkey1.fly = function() {
    console.log("I am not quite flightless, I can fly a fe
meters in a pinch");
  };
  turkey1.fly();
```

```
var turkey1 = new Turkey();
turkey1.fly = function() {
    console.log("I am not quite flightless, I can fly a few
meters in a SETHTHE fly PROPERTY ON A
    turkey1.fly();
    SPECIFIC Turkey
```

Instantiate an object and call fly - the FlightlessBird version will be called

I can't fly, even though I'm a bird :-(

Now, override the fly method for this specific object, and call the fly property - the specific verison will be called I am not quite flightless, I can fly a few meters in a pinch

```
var turkey1 = new Turkey();
  turkey1.fly = function() {
    console.log("I am not quite flightless, I can fly a fe
meters in a pinch");
  };
  turkey1.fly();
```

BUT IF YOU CREATE ANY OTHER TURKEY OBJECTS, IT IS STILL THE FlightlessBird VERSION THAT WILL BE CALLED

BUT IF YOU CREATE ANY OTHER TURKEY OBJECTS, IT IS STILL THE FlightlessBird VERSION THAT WILL BE CALLED

```
var turkey2 = new Turkey()
turkey2.fly();
```

But if you call fly on any other objects, its still the FlightlessBird version that will be called I can't fly, even though I'm a bird :-(

NOW, SAY WE WOULD LIKE TO OVERRIDE THE PROPERTY fly ON Turkey OBJECTS

```
Turkey.prototype.fly = function() {
   console.log("I am not quite flightless, I can fly a femeters in a pinch");
  };
```

SET THE fly PROPERTY ON THE prototype OF THE OBJECT CONSTRUCTOR FOR Turkey

```
Turkey.prototype.fly = function() {
   console.log("I am not quite flightless, I can fly a femeters in a pinch");
}
```

SET THE fly PROPERTY ON THE prototype OF THE OBJECT CONSTRUCTOR FOR Turkey

```
Turkey.prototype.fly = function() {
    console.tog("I am not quite flightless, I can fly a femeters in a pinch");
    };
    SET THE fly PROPERTY ON THE
    prototype OF THE OBJECT CONSTRUCTOR
```

REMEMBER THAT prototype IS A PROPERTY OF ALL OBJECT CONSTRUCTORS

NOW, ALL Turkey OBJECTS CREATED AFTER THIS WILL USE THIS SPECIFIC VERSION!

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```
Turkey.prototype.fly = function() {
   console.log("I am not quite flightless, I can fly a few
meters in a pinch");
  };

var turkey3 = new Turkey();
```

turkey3.fly();

NOW, ALL Turkey OBJECTS CREATED AFTER THIS WILL USE THIS SPECIFIC VERSION!

```
Turkey.prototype.fly = function() {
   console.log("I am not quite flightless, I can fly a few
meters in a pinch");
};

var turkey3 = new Turkey();
turkev3_flv():
   I am not quite flightless, I can fly a few meters in a pinch
```

SO - REMEMBER!

THERE ARE 2 WAYS TO OVERRIDE AN OBJECT PROPERTY

- OVERRIDE FOR A SPECIFIC OBJECT ONLY
- OVERRIPE FOR ALL OBJECTS BUILT WITH A PARTICULAR CONSTRUCTOR