

CIS122/44 Course Page × Object constructor × +

file:///H:/OOP/objconstructor.html

This is a simple approach to setting up a object construct or constructor function and then establishing instances of that object. Remember that an object can have properties and it can have methods. Note there are a variety of places to put scripts: in the head, in the body, after the close body and before the close html. Here I am setting up the object in the head and using it in the body. Below where I set up var muffin as a new item I am creating an instance of the object.

112  
Whole Grain Bread  
2.29

Enter 1 for muffin, 2 for bread or 3 for cookie

OK Cancel

Windows taskbar: 11:20 AM 4/29/2019

file:///H:/OOP/objconstructor.html X +

view-source:file:///H:/OOP/objconstructor.html

```
1 <!DOCTYPE html>
2 <html>
3 <head>
4 <title>Object constructor</title>
5 <script type="text/javascript">
6 function item(itemno, itemname, price) {
7     this.itemno = itemno;
8     this.itemname = itemname;
9     this.price = price;
10 }
11 var muffin = new item("111", "Blue Berry Muffin", .89);
12 var bread = new item("112", "Whole Grain Bread", 2.29);
13 var cookie = new item("113", "Chocolate Chip Cookie", .79);
14 var problem = new item("", "Problem", 0);
15 </script>
16 </head>
17 <body>
18 <p>This is a simple approach to setting up a object construct or
19 constructor function
20 and then establishing instances of that object. Remember that an
21 object can have properties and it can have methods. Note there
22 are a variety of places to put scripts: in the head, in the body,
23 after the close body and before the close html. Here I am setting
24 up the object in the head and using it in the body.
25 Below where I set up var muffin as a new item I am creating an
26 instance of the object.</p>
27 <script type = "text/javascript">
28 document.write (bread.itemno);
29 document.write("<br>");
30 document.write (bread.itemname);
31 document.write("<br>");
32 document.write (bread.price);
33 document.write("<br>");
34 var whichItem = prompt("Enter 1 for muffin, 2 for bread or 3 for cookie ", "");
35 if (whichItem == 1)
36     {
37     obj = muffin;
38     }
39 else
40     {
41     if (whichItem == 2)
42     {
43     obj = bread
44     }
45     else
```

```
file:///H:/OOP/objconstructor.html X +
view-source:file:///H:/OOP/objconstructor.html
20 and then establishing instances of that object. Remember that an
21 object can have properties and it can have methods. Note there
22 are a variety of places to put scripts: in the head, in the body,
23 after the close body and before the close html. Here I am setting
24 up the object in the head and using it in the body.
25 Below where I set up var muffin as a new item I am creating an
26 instance of the object.</p>
27 <script type = "text/javascript">
28 document.write(bread.itemno);
29 document.write("<br>");
30 document.write(bread.itemname);
31 document.write("<br>");
32 document.write(bread.price);
33 document.write("<br>");
34 var whichItem = prompt("Enter 1 for muffin, 2 for bread or 3 for cookie ", "");
35 if (whichItem == 1)
36     {
37     obj = muffin;
38     }
39 else
40     {
41     if (whichItem == 2)
42     {
43     obj = bread
44     }
45     else
46     {
47     if (whichItem == 3)
48     {
49     obj = cookie;
50     }
51     else
52     {
53     obj = problem;
54     }
55     }
56     }
57 document.write("<br>");
58 document.write(obj.itemno);
59 document.write("<br>");
60 document.write(obj.itemname);
61 document.write("<br>");
62 document.write(obj.price);
63 </script>
64 </body>
65 </html>
```

File Edit View History Bookmarks Tools Help

CIS122/44 Course Page Object constructor

file:///H:/OOP/objconstructor1.html

This is a simple approach to setting up a object construct or constructor function and then establishing instances of that object. Remember that an object can have properties and it can have methods. Note there are a variety of places to put scripts: in the head, in the body, after the close body and before the close html. Here I am setting up the object in the head and using it in the body. Below where I set up var muffin as a new item I am creating an instance of the object.

112  
Whole Grain Bread  
2  
2.29

111  
Blue Berry Muffin  
0.7  
0.89  
0.19

Windows taskbar: 11:24 AM 4/29/2019

The screenshot shows a web browser window with a dark theme. The address bar displays the file path: `file:///H:/OOP/objconstructor1.htm`. The browser's developer tools are open, showing the source code of the page. The code defines a constructor function `item` and a method `profitCalc`. It then creates three instances: `muffin`, `bread`, and `cookie`. The `muffin` instance is used to demonstrate the constructor's output.

```
1 <!DOCTYPE html>
2 <html>
3 <head>
4 <title>Object constructor</title>
5 <script type="text/javascript">
6 function item(itemno, itemname, cost, price) {
7     this.itemno = itemno;
8     this.itemname = itemname;
9     this.cost = cost;
10    this.price = price;
11    this.profit = profitCalc;
12 }
13 function profitCalc(){
14     var myProfit = (this.price - this.cost).toFixed(2);
15     return myProfit;
16 }
17
18 var muffin = new item("111", "Blue Berry Muffin", .70, .89);
19 var bread = new item("112", "Whole Grain Bread", 2, 2.29);
20 var cookie = new item("113", "Chocolate Chip Cookie", .62, .79);
21 var problem = new item("", "Problem", 0, 0);
22 </script>
23 </head>
24 <body>
25 <p>This is a simple approach to setting up a object construct or
26 constructor function
27 and then establishing instances of that object. Remember that an
28 object can have properties and it can have methods. Note there
29 are a variety of places to put scripts: in the head, in the body,
30 after the close body and before the close html. Here I am setting
31 up the object in the head and using it in the body.
32 Below where I set up var muffin as a new item I am creating an
33 instance of the object.</p>
34 <script type = "text/javascript">
35 document.write(bread.itemno);
36 document.write("<br>");
37 document.write(bread.itemname);
38 document.write("<br>");
39 document.write(bread.cost);
40 document.write("<br>");
```

The browser's content area displays the following text:

This is a simple approach to setting up a ob  
Note there are a variety of places to put scr  
where I set up var muffin as a new item I a

112  
Whole Grain Bread  
2  
2.29

111  
Blue Berry Muffin  
0.7  
0.89  
0.19

This is a simple approach to setting up a object constructor function. Note there are a variety of places to put scripts: in the head, in the body, after the close body and before the close html. Here I am setting up the object in the head and using it in the body. Below where I set up var muffin as a new item I am creating an instance of the object.

```
112 Whole Grain Bread
2 2.29
111 Blue Berry Muffin
0.7 0.89 0.19
```

```
3 <head>
4 <title>Object constructor</title>
5 <script type="text/javascript">
6 function item(itemno, itemname, cost, price) {
7     this.itemno = itemno;
8     this.itemname = itemname;
9     this.cost = cost;
10    this.price = price;
11    this.profit = profitCalc;
12 }
13 function profitCalc(){
14     var myProfit = (this.price - this.cost).toFixed(2);
15     return myProfit;
16 }
17
18 var muffin = new item("111", "Blue Berry Muffin", .70, .89);
19 var bread = new item("112", "Whole Grain Bread", 2, 2.29);
20 var cookie = new item("113", "Chocolate Chip Cookie", .62, .79);
21 var problem = new item("", "Problem", 0, 0);
22 </script>
23 </head>
24 <body>
25 <p>This is a simple approach to setting up a object construct or
26 constructor function
27 and then establishing instances of that object. Remember that an
28 object can have properties and it can have methods. Note there
29 are a variety of places to put scripts: in the head, in the body,
30 after the close body and before the close html. Here I am setting
31 up the object in the head and using it in the body.
32 Below where I set up var muffin as a new item I am creating an
33 instance of the object.</p>
34 <script type = "text/javascript">
35 document.write (bread.itemno);
36 document.write("<br>");
37 document.write (bread.itemname);
38 document.write("<br>");
39 document.write (bread.cost);
40 document.write("<br>");
41 document.write (bread.price);
42 document.write("<br>");
43 var whichItem = prompt("Enter 1 for muffin, 2 for bread or 3 for cookie. ");
```

The screenshot displays a web browser window with a code editor overlay. The code editor shows the following JavaScript code:

```
38 document.write("<br>");
39 document.write(bread.cost);
40 document.write("<br>");
41 document.write(bread.price);
42 document.write("<br>");
43 var whichItem = prompt("Enter 1 for muffin, 2 for bread or 3 for cookie ", "");
44 if (whichItem == 1)
45     {
46     obj = muffin;
47     }
48 else
49     {
50     if (whichItem == 2)
51     {
52     obj = bread
53     }
54     else
55     {
56     if (whichItem == 3)
57     {
58     obj = cookie;
59     }
60     else
61     {
62     obj = problem;
63     }
64     }
65     }
66 document.write("<br>");
67 document.write(obj.itemno);
68 document.write("<br>");
69 document.write(obj.itemname);
70 document.write("<br>");
71 document.write(obj.cost);
72 document.write("<br>");
73 document.write(obj.price);
74 document.write("<br>");
75 document.write(obj.profit());
76 </script>
77 </body>
78 </html>
```

The background document contains the following text:

This is a simple approach to setting up a ob  
Note there are a variety of places to put scr  
where I set up var muffin as a new item I a

112  
Whole Grain Bread  
2  
2.29

111  
Blue Berry Muffin  
0.7  
0.89  
0.19

... properties and it can have methods.  
... and using it in the body. Below

JavaScript DOM Animate x Tryit Editor v3.6 x +

https://www.w3schools.com/js/tryit.asp?filename=tryjs\_dom\_animate\_2

Result Size: 625 x 509

```
<!doctype html>
<html>
<style>
#container {
  width: 400px;
  height: 400px;
  position: relative;
  background: yellow;
}
#animate {
  width: 50px;
  height: 50px;
  position: absolute;
  background: red;
}
</style>
<body>

<h2>My First JavaScript Animation</h2>

<div id="container">
<div id="animate"></div>
</div>

</body>
</html>
```

Extra credit if you do something with animation.

## My First JavaScript Animation



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JavaScript DOM Animate

https://www.w3schools.com/js/js\_htmldom\_animate.asp

HTML CSS **JAVASCRIPT** SQL PHP BOOTSTRAP HOW TO MORE REFERENCES EXERCISES

### JS Functions

- Function Definitions
- Function Parameters
- Function Invocation
- Function Call
- Function Apply
- Function Closures

### JS HTML DOM

- DOM Intro
- DOM Methods
- DOM Document
- DOM Elements
- DOM HTML
- DOM CSS
- DOM Animations**
- DOM Events
- DOM Event Listener
- DOM Navigation
- DOM Nodes
- DOM Collections
- DOM Node Lists

### Example

```
#container {
  width: 400px;
  height: 400px;
  position: relative;
  background: yellow;
}
#animate {
  width: 50px;
  height: 50px;
  position: absolute;
  background: red;
}
```

Try it Yourself »

### SHARE

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### CERTIFICATES

- HTML
- CSS
- JavaScript
- SQL
- Python
- PHP
- jQuery
- Bootstrap
- XML

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### Animation Code

JavaScript animations are done by programming gradual changes in an element's style.

Windows Taskbar: 11:28 AM 4/29/2019