



Meir Sabbah
meir@promermedia.com
058-688-0761



Node Creation

```
<div class="allCars" id="mainCars"></div>
addCar(i);
function addCar(i) {
   var mainDiv = document.getElementById("mainCars");
   var newDiv = createElement("div");
   newDiv.id = "car" + i;
   newDiv.className = "eachCar";
   mainDiv.appendChild(newDiv);
```



What is THIS?!? this salways an object

1) JS object's representation within.



this: 1) Object's representation within.

```
var user = {
    fullName: { lastName: "Bob", lastName: "Roberts" },
    ID: 123456789,
    DOB: "21/12/1980",
    creditCards: [{ visa: 418...789, exp: "08/21", cvv: 456 },
    { master: 437...384, exp: "12/19", cvv: 665 },
    { amex: 538...301, exp: "04/24", cvv: 7908 },
    qtyCreditCards: function () {
        return user.creditCards.length;
    }
};
```



this: 1) Object's representation within.

```
var user = {
    fullName: { lastName: "Bob", lastName: "Roberts" },
    ID: 123456789,
    DOB: "21/12/1980",
    creditCards: [{ visa: 418...789, exp: "08/21", cvv: 456 },
    { master: 437...384, exp: "12/19", cvv: 665 },
    { amex: 538...301, exp: "04/24", cvv: 7908 },
    qtyCreditCards: function () {
        return this.creditCards.length;
    }
};
```



What is THIS?!? this ls always an object

- 1) JS object's representation within.
 - 2) HTML element representation.



this: 2) HTML element representation

```
<div class="eachCar" id="car0">
   <h3 class="category">Economy</h3>
   <button class="btn" onclick="deleteCar(this)>X</button>
   <img src="assets/images/honda.jpg" alt="">
   Honda
   Civic
   $18,000
</div>
<script src="js/main.js"> </script>
```

function deleteCar(car) {
 var div = car. parentElement;
 div.innerHTML = "";
};



JS:

▶ Using your current "cars" project, create a function that will delete the item entirely, including from the array.



HTML:

- Create a form that is hidden, and can only be displayed when a button is clicked.
- ▶ Once open, that same button should say "Hide Form" and the form gets hidden when pressed.
- ▶ The form will contain a field for each "car" detail.

JS:

- ▶ What it takes to toggle the button and form functions.
- ► Create a function that will take in the input values and add that car to the existing list in the HTML.
- ▶ Make sure that the form gets cleared once submitted.



HTML:

- ► Créez un formulaire qui est masqué et ne peut être affiché que lorsque vous cliquez sur un bouton.
- ▶ Une fois ouvert, le même bouton devrait indiquer "Masquer le formulaire" et le formulaire est masqué lorsque vous appuyez dessus.
- ▶ Le formulaire contiendra un champ pour chaque détail de "car".

JS:

- ► Ce qu'il faut faire pour "toggle" les fonctions de bouton et de l'apparition du formulaire.
- Créez une fonction qui prendra les valeurs d'entrée et ajoutera cette voiture à la liste existante dans le code HTML.
- Assurez-vous que le formulaire est effacé une fois soumis.



Declared,
Operated,
&
Anonymous
FUNCTIONS



Function Declarator

```
sayHello();
function sayHello() {
    alert("Hello");
};
```



Function Operator

```
var sayHello = function() {
    alert("Hello");
};
sayHello();
```

Opposite won't work!



Anonymous Functions

```
var sayHello = function sayHi() {
    alert("Hello");
};
sayHello();
```

It will work, but sayHi() is NOT in scope, therefore is undefined!



Anonymous Functions Self-Invoking Functions

```
(function() {
    alert("Hello");
})();
```

Created, called, and gone.



Anonymous Functions Passed as an Argument

```
function add(calculate) {
    alert(calculate);
}
add(2 + 2);
```



Anonymous Functions Passed as an Argument

```
function add(calculate) { //no args here
    alert(calculate(2, 2));
}
add(function(a, b) {
    return a + b;
});
```



Browser Object Model

Methods

setTimeout()
setInterval()

Delays or repeats a function call



Delayed Function setTimeout()

```
setTimeout(function() {
    alert("Hello");
}, 2000);
```

Takes in two parameters, a function, and the quantity of milliseconds



Asynchronous Programming

```
console.log("Hello # 1");
setTimeout(function() {
   console.log("Hello # 2");
}, 2000);
console.log("Hello # 3");
```



Asynchronous Programming

```
for (let i = 1; i < 6; i++) {
    setTimeout(function() {
        console.log(i);
    }, 1000);
};</pre>
```

What happens here?



Repeated Function setInterval()

```
setInterval(function() {
    alert("Hello");
}, 3000);
```

Takes in two parameters, a function, and the quantity of milliseconds

Goes on forever...



Stopping a Repeated Function

Introduction:

```
var thePrompt = prompt("Hello");
```

The prompt opens and receives a value, then the variable becomes that value.



Slopping a Repeated Function

Introduction:

```
var theAlert = alert("Hello");
```

The alert is run, but right after that, the variable becomes "undefined" because it finished it's job.



Stopping a Repeated Function clearInterval()

```
var repeat = setInterval(sayHello, 3000);
function sayHello() {
    alert("Hello");
}

function stopIt () {
    clearInterval(repeat)
}
```



Make a stopwatch!

