

# **"JavaScript for Kids" Coding Class**

**May/June 2015 - 4th and 5th Grade  
Lesson 4**

**Welcome to Lesson 4!**

# ***Lesson 3***

- Recap of Lesson 3 (Objects)
- HTML
  - Creating your first HTML Page
  - Calling JavaScript from HTML
  - Asking the user for input
  - Changing the page
  - Creating a simple form

# HTML

# HyperText Markup Language

**Every Web Page is  
created using HTML!**

**What does HTML look  
like?**

# What does HTML look like?

```
<html>
<head>
  <title>My First Web Page</title>
</head>
<body>
  <h1>My First Web Page</h1>
</body>
</html>
```



**Task: Open step1.html in Firefox,  
and change the text.**

# Adding JavaScript to your page

# Adding JavaScript to your page

```
<html>
<head>
  <title>My First Web Page</title>
</head>
<body>
  <h1>My First Web Page</h1>
</body>
</html>
```

# Adding JavaScript to your page

```
<html>
<head>
  <title>My First Web Page</title>
  <script>

  </script>
</head>
<body>
  <h1>My First Web Page</h1>
</body>
</html>
```

# Adding JavaScript to your page

```
<html>
<head>
  <title>My First Web Page</title>
  <script>

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

  </script>
</head>
<body>
  <h1>My First Web Page</h1>
</body>
</html>
```

# Adding JavaScript to your page

```
<html>
<head>
  <title>My First Web Page</title>
  <script>

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

  </script>
</head>
<body>
  <h1>My First Web Page</h1>
  <button onclick="sayHello()">Click me!</button>
</body>
</html>
```

**Task: Add the *say hello* method to  
your page**

**Asking the user for  
information**



# Asking the user for information

```
<html>
<head>
  <meta charset="UTF-8">
  <title>My First Web Page</title>
  <script>

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

  </script>
</head>
<body>
  <h1>My First Web Page</h1>
  <button onclick="sayHello()">Click me!</button>
</body>
</html>
```

# Asking the user for information

```
<html>
<head>
  <meta charset="UTF-8">
  <title>My First Web Page</title>
  <script>

    var sayHello = function(){
      var name = prompt("What is your name?");
      alert("Pleased to meet you, " + name);
    };

  </script>
</head>
<body>
  <h1>My First Web Page</h1>
  <button onclick="sayHello()">Click me!</button>
</body>
</html>
```

**Task: Add the code to ask for the  
user's name**

**Changing the page**

# Changing the page

```
<html>
<head>
  <meta charset="UTF-8">
  <title>My First Web Page</title>
  <script>

    var sayHello = function(){
      var name = prompt("What is your name?");
      alert("Pleased to meet you, " + name);
    };

  </script>
</head>
<body>
  <h1>My First Web Page</h1>
  <button onclick="sayHello()">Click me!</button>
</body>
</html>
```

# Changing the page

```
<h1 id="name"></h1>
```

# Changing the page

```
document.getElementById("name").innerHTML = "Pleased to meet you, " + name;
```

# Changing the page

```
<html>
<head>
  <meta charset="UTF-8">
  <title>My First Web Page</title>
  <script>

    var sayHello = function(){
      var name = prompt("What is your name?");
      document.getElementById("name").innerHTML = "Pleased to meet you, " + name;
    };

  </script>
</head>
<body>
  <h1>My First Web Page</h1>
  <button onclick="sayHello()">Click me!</button>
  <h1 id="name"></h1>
</body>
</html>
```



**Task: Add the code to change the page when the user enters their name**

# Creating a simple form

# Creating a simple form

```
<input id="age"/>  
<button onclick="ageInDogYears()">My Age in Dog Years</button>  
<h2 id="dogyears"></h2>
```

# Creating a simple form

```
var ageInDogYears = function(){  
    var age = document.getElementById("age").value;  
    var ageInDogYears = age * 7;  
    document.getElementById("dogyears").innerHTML = "In dog years, you are " + ageInDogYears + " years old";  
}
```

# Creating a simple form

```
<html>
<head>
  <meta charset="UTF-8">
  <title>My First Web Page</title>
  <script>
var ageInDogYears = function(){
  var age = document.getElementById("age").value;
  var ageInDogYears = age * 7;
  document.getElementById("dogyears").innerHTML = "In dog years, you are " + ageInDogYears + " years old";
}
  </script>
</head>
<body>
  <h1>My First Web Page</h1>
  <input id="age"/>
  <button onclick="ageInDogYears()">My Age in Dog Years</button>
  <h2 id="dogyears"></h2>
</body>
</html>
```

**Task: Add the code to ask the user  
for their age and return the value  
in dog years**