

# HTML, CSS AND JAVASCRIPT COURSE

## ROLLOVER WITH JAVASCRIPT



---

By the expert: Ubaldo Acosta

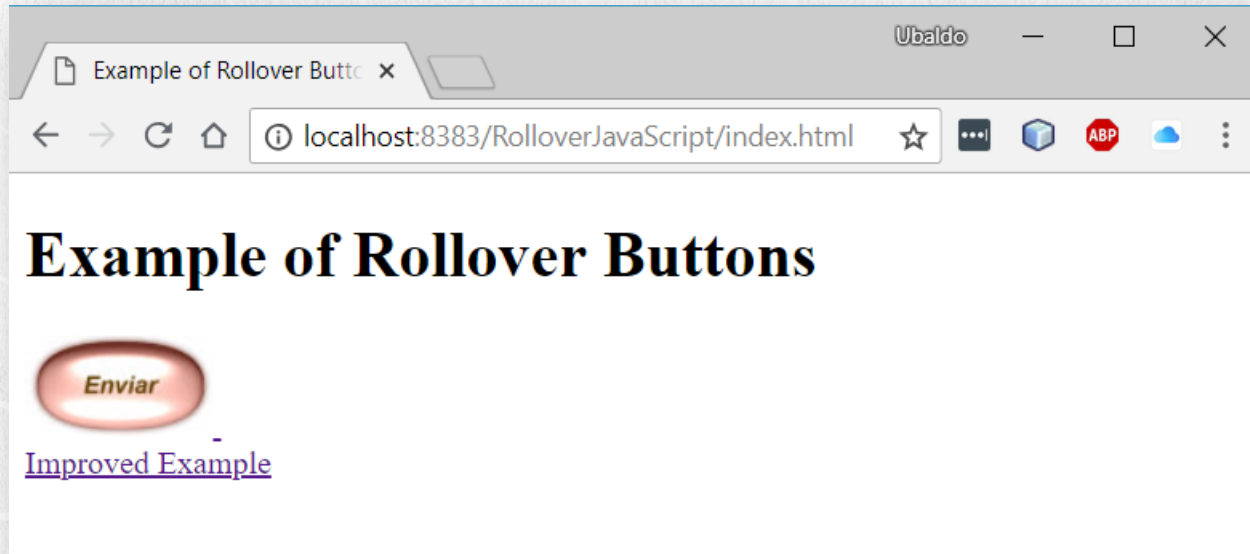


**HTML, CSS AND JAVASCRIPT COURSE**

[www.globalmentoring.com.mx](http://www.globalmentoring.com.mx)

# EXERCISE OBJECTIVE

Create a project with JavaScript to implement the Rollover concept. At the end we will see:



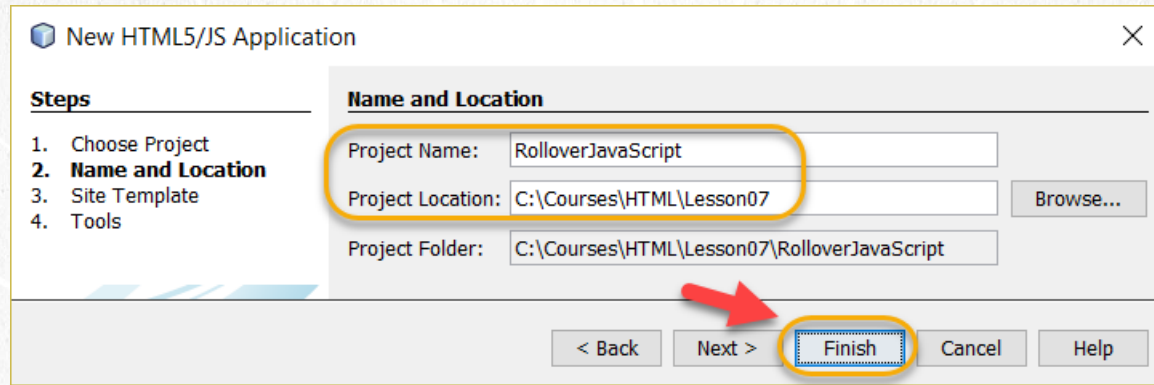
**HTML, CSS AND JAVASCRIPT COURSE**

[www.globalmentoring.com.mx](http://www.globalmentoring.com.mx)



# 1. CREATE A NEW PROJECT

Create a new Project:



**New HTML5/JS Application**

**Steps**

1. Choose Project
- 2. Name and Location**
3. Site Template
4. Tools

**Name and Location**

Project Name: RolloverJavaScript

Project Location: C:\Courses\HTML\Lesson07

Project Folder: C:\Courses\HTML\Lesson07\RolloverJavaScript

**HTML, CSS AND JAVASCRIPT COURSE**

[www.globalmentoring.com.mx](http://www.globalmentoring.com.mx)

## 2. CREATE A NEW FILE

Create a new JavaScript file called functions.js:

**New JavaScript File**

**Steps**

1. Choose File Type
2. **Name and Location**

**Name and Location**

File Name:

Project:

Location:

Folder:

Created File:

**HTML, CSS AND JAVASCRIPT COURSE**

[www.globalmentoring.com.mx](http://www.globalmentoring.com.mx)

### 3. MODIFY THE FILE

#### functions.js:

```
/**
 * @author ubaldo
 */
window.onload = loadImages;

/*
 *Function that loads all the images that work
 * as a link, in particular those that are involved
 * with a "A" tag. A stands for anchor
 */
function loadImages() {
    for (var i = 0; i < document.images.length; i++) {
        if (document.images[i].parentNode.tagName == "A"){
            configureRollover(document.images[i]);
        }
    }
}
```



### 3. MODIFY THE FILE

#### functions.js:

```
/**
 * This function is executed when the page is started, and it is used
 * to associate the rollover images with the links
 * that will work as such
 * @param {Object} image - The image that works as a rollover
 */
function configureRollover(imagen) {
    imagen.imagenOff = new Image();
    imagen.imagenOff.src = "button_off.jpg";
    imagen.onmouseout = changeOff;

    imagen.imagenOn = new Image();
    imagen.imagenOn.src = "button_on.jpg";
    imagen.onmouseover = changeOn;
}
```

### 3. MODIFY THE FILE

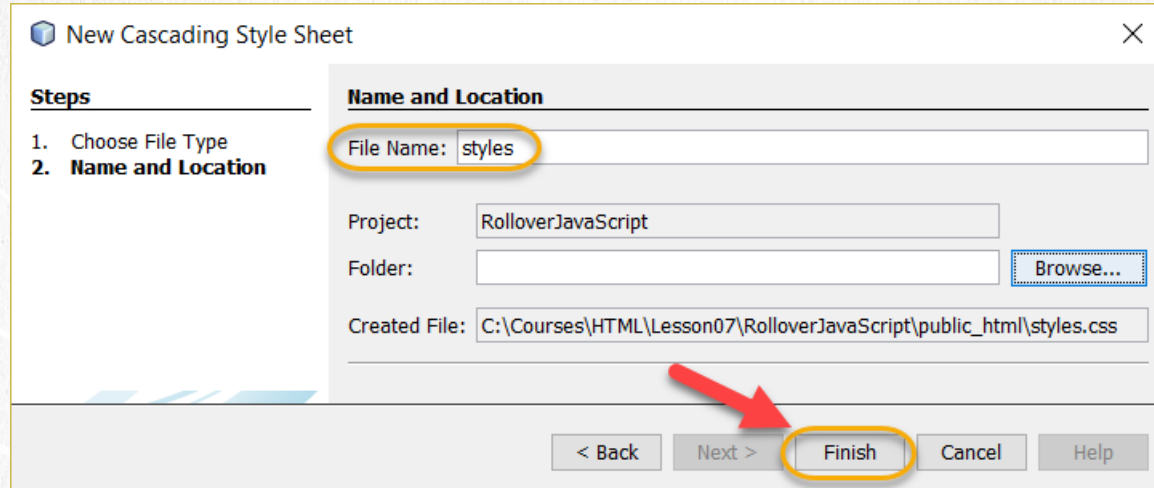
#### functions.js:

```
/**
 * These functions are executed according to the event that is triggered
 * but it is not at the start of the page, but depends on the
 * Button that is pressed, they are known as handlers
 */
// It was associated with the onmouseout event
function changeOff() {
    this.src = this.imagenOff.src;//we take the values already associated
}

//It was associated with the onmouseover event
function changeOn() {
    this.src = this.imagenOn.src;//we take the values already associated
}
```

## 4. CREATE A NEW FILE

Create a new CSS file called styles.css:



**New Cascading Style Sheet**

**Steps**

1. Choose File Type
2. **Name and Location**

**Name and Location**

File Name:

Project:

Folder:

Created File:

**HTML, CSS AND JAVASCRIPT COURSE**

[www.globalmentoring.com.mx](http://www.globalmentoring.com.mx)



## 5. MODIFY THE CODE

styles.css:

```
body {  
    background:#ffffff;  
}  
  
img{  
    border:none;  
}
```

**HTML, CSS AND JAVASCRIPT COURSE**

[www.globalmentoring.com.mx](http://www.globalmentoring.com.mx)

## 6. CREATE A NEW FILE

Create a new file called improved.html:

**New HTML File**

**Steps**

1. Choose File Type
2. **Name and Location**

**Name and Location**

File Name:

Project:

Folder:

Created File:

< Back   Next >   **Finish**   Cancel   Help

**HTML, CSS AND JAVASCRIPT COURSE**

[www.globalmentoring.com.mx](http://www.globalmentoring.com.mx)

## 7. MODIFY THE FILE

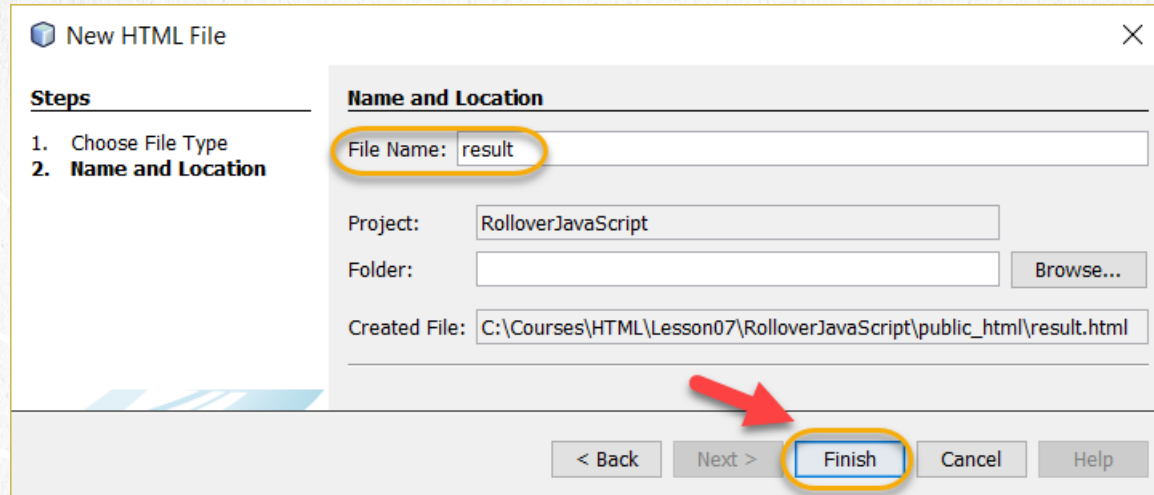
### improved.html:

```
<!DOCTYPE html>
<html>
  <head>
    <meta charset="UTF-8">
    <title>Improved Rollover Exercise</title>
    <link rel="stylesheet" type="text/css" href="styles.css">
    <script type="text/javascript" src="functions.js"></script>
  </head>
  <body>
    <h1>Improved Rollover Exercise</h1>
    <a href="result.html">
      
    </a>
  </body>
</html>
```



## 8. CREATE A NEW FILE

Create a new file called result.html:



**New HTML File**

**Steps**

1. Choose File Type
2. **Name and Location**

**Name and Location**

File Name:

Project:

Folder:

Created File:

**HTML, CSS AND JAVASCRIPT COURSE**

[www.globalmentoring.com.mx](http://www.globalmentoring.com.mx)

## 9. MODIFY THE FILE

result.html:

```
<!DOCTYPE html>
<html>
  <head>
    <meta charset="UTF-8">
    <title>Result HTML</title>
  </head>
  <body>
    <h1>This is the result of pressing the Send button</h1>
  </body>
</html>
```

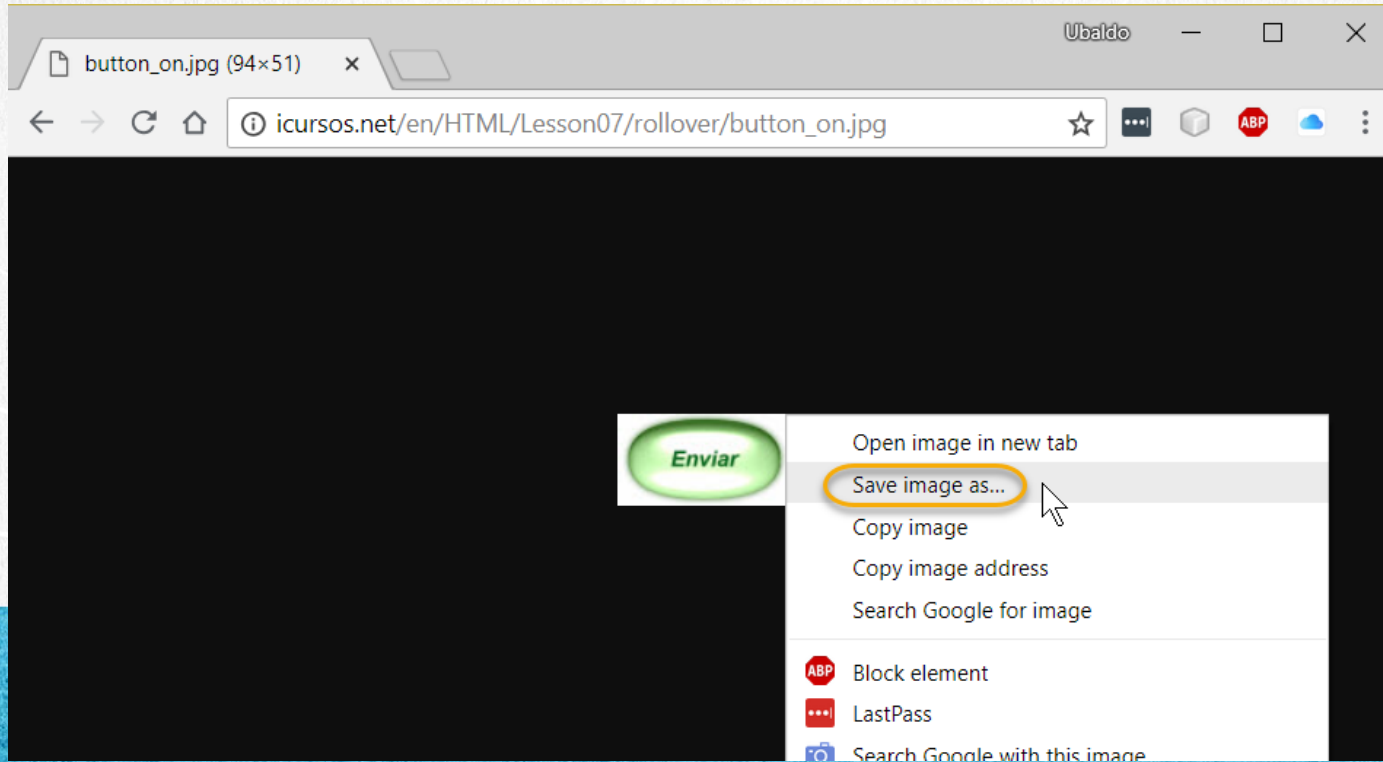
HTML, CSS AND JAVASCRIPT COURSE

[www.globalmentoring.com.mx](http://www.globalmentoring.com.mx)

# 10. DOWNLOAD IMAGES

We download the images to use within the project:

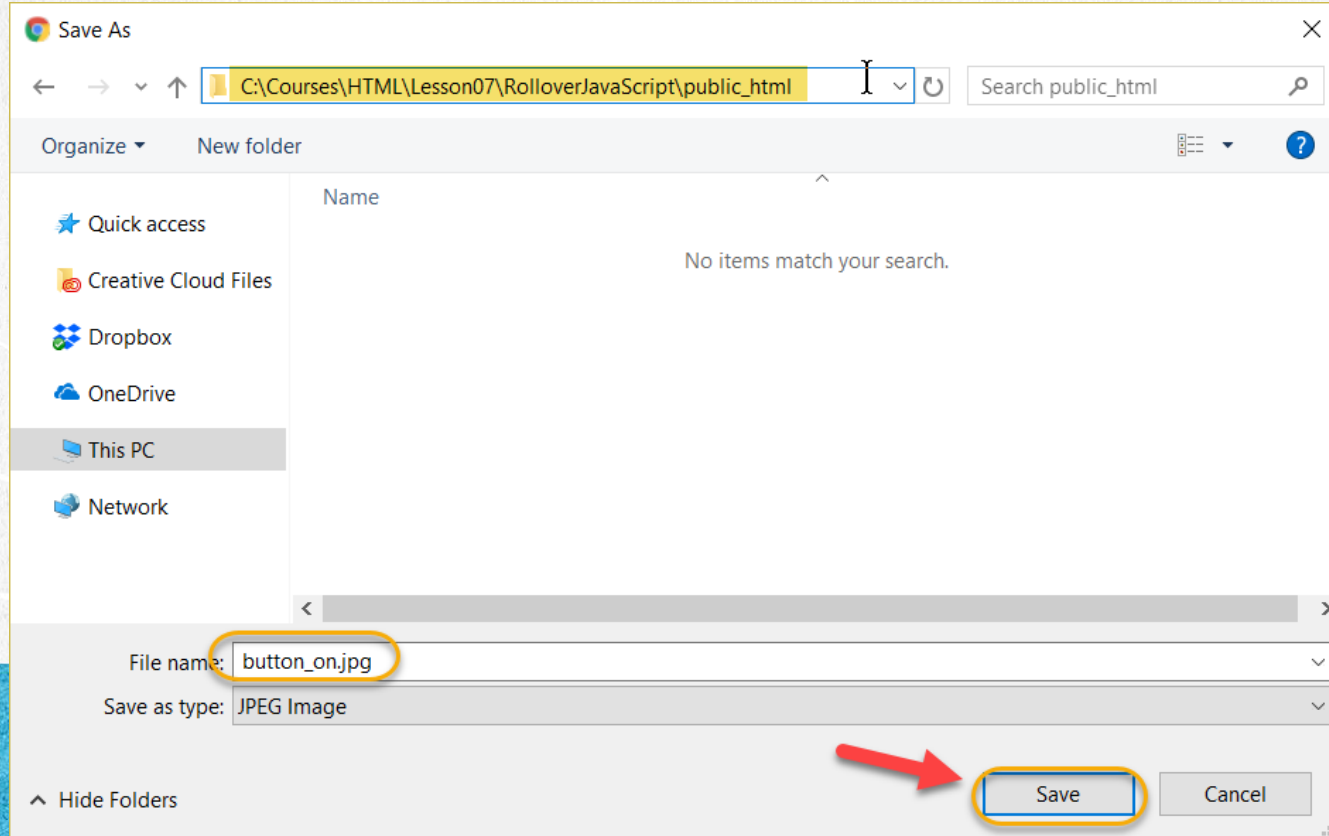
[http://icursos.net/en/HTML/Lesson07/rollover/button\\_on.jpg](http://icursos.net/en/HTML/Lesson07/rollover/button_on.jpg)





# 10. DOWNLOAD IMAGES

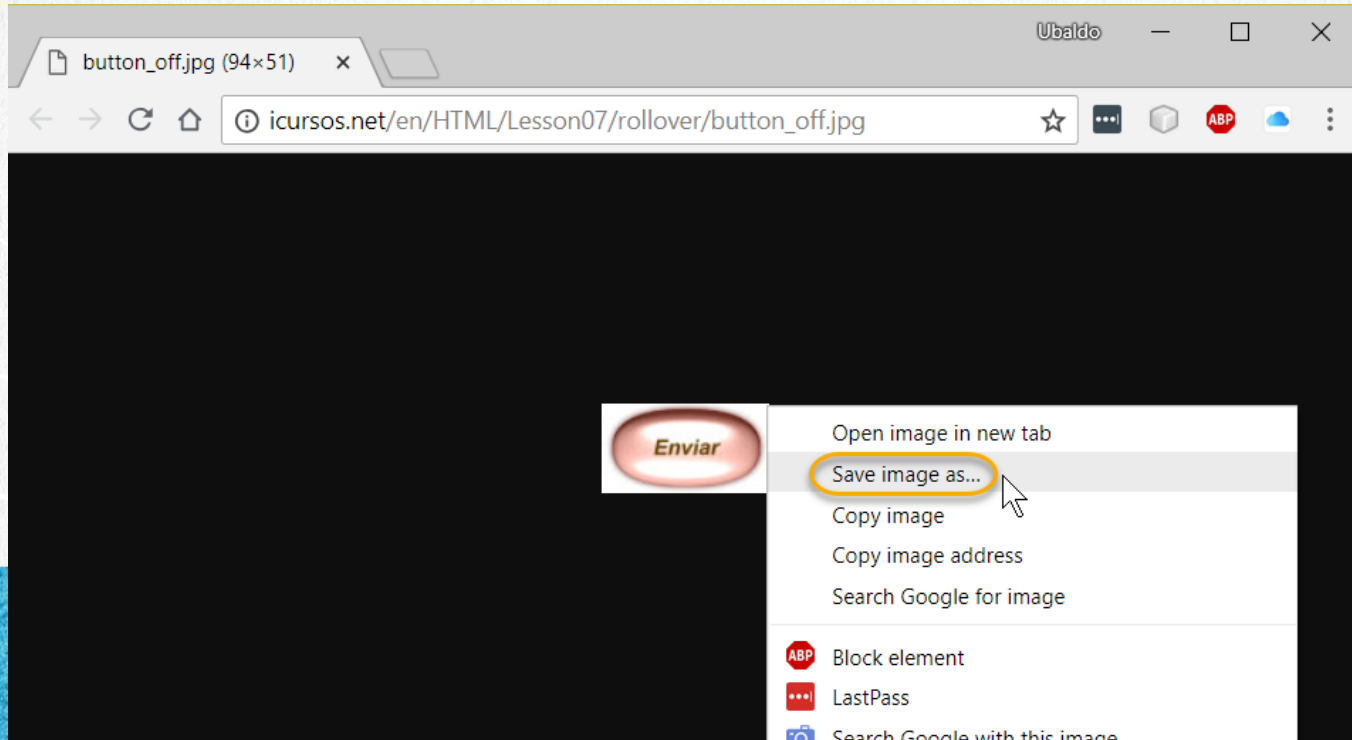
Save the image in the next path:



# 10. DOWNLOAD IMAGES

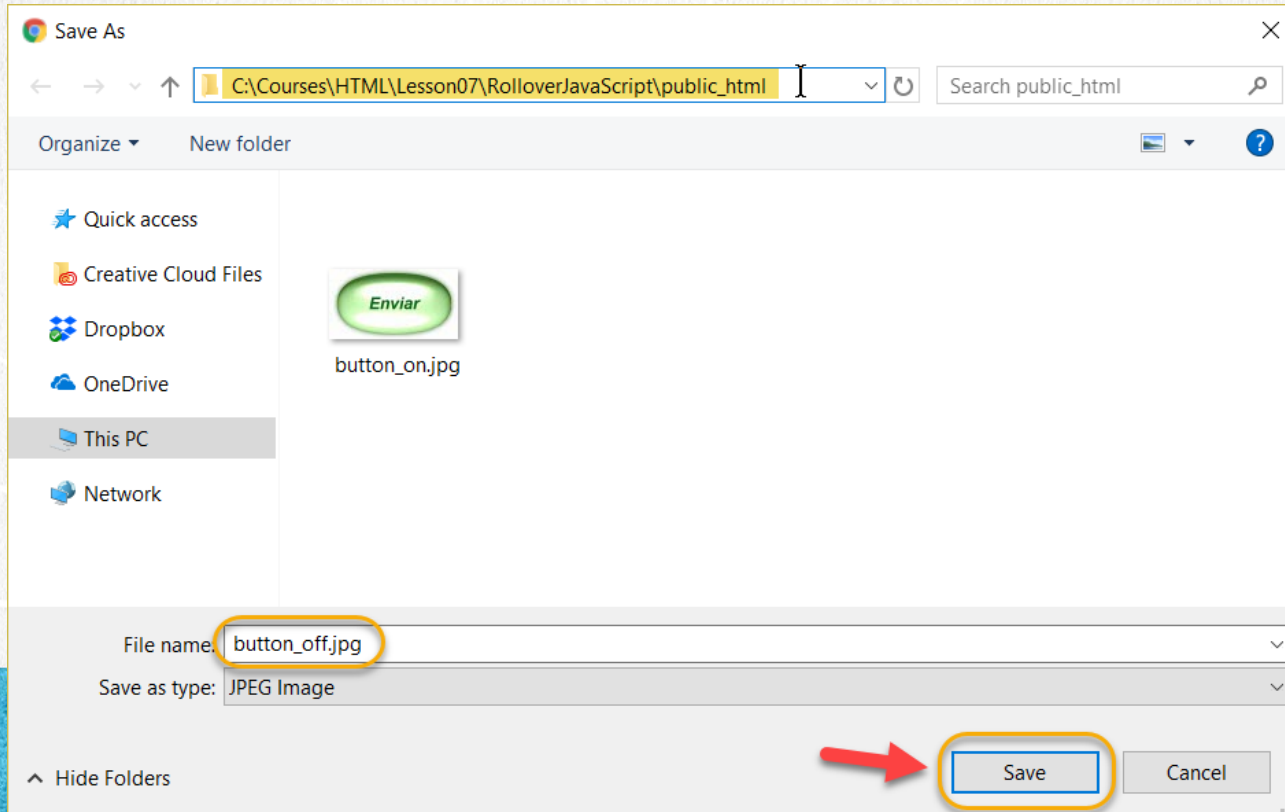
We download the images to use within the project:

[http://icursos.net/en/HTML/Lesson07/rollover/button\\_off.jpg](http://icursos.net/en/HTML/Lesson07/rollover/button_off.jpg)



# 10. DOWNLOAD IMAGES

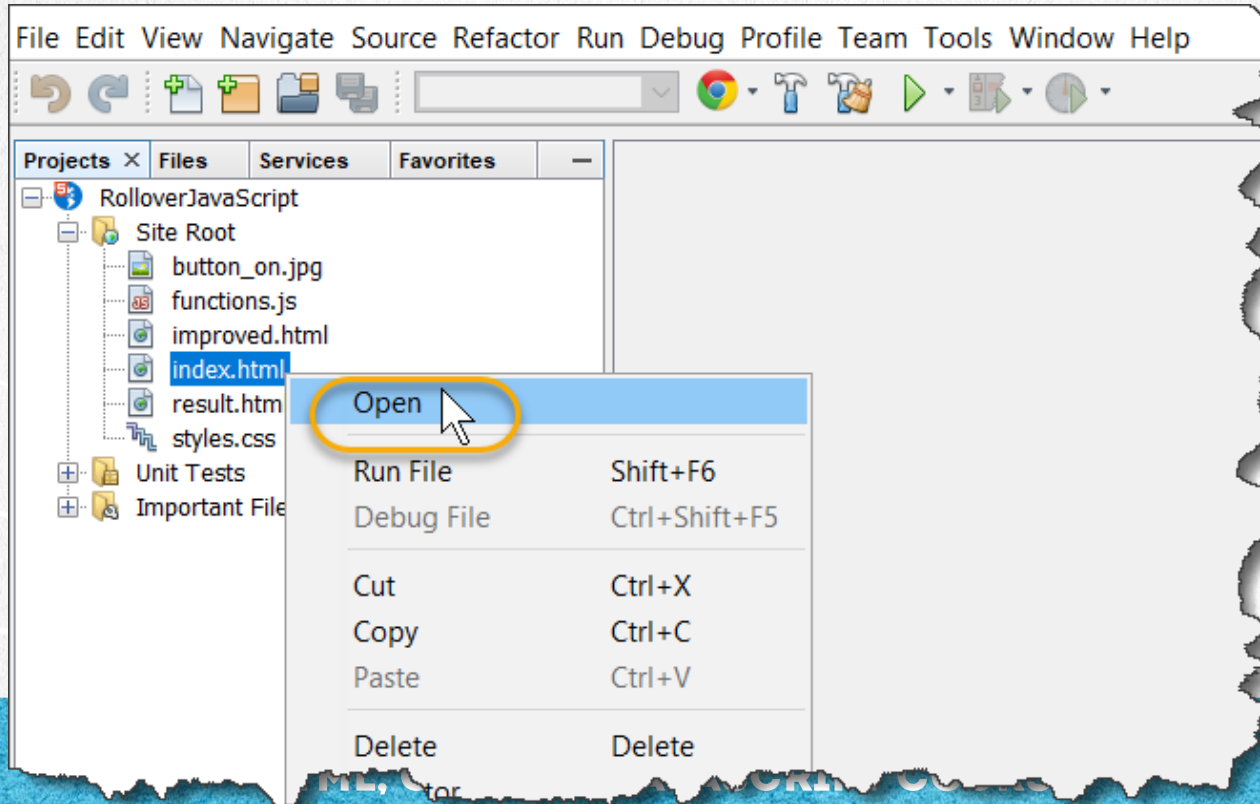
Save the image in the next path:





# 11. MODIFY THE FILE

Modify the index.html file:



# 12. MODIFY THE FILE

## index.html:

```
<!DOCTYPE html>
<html>
  <head>
    <meta charset="UTF-8">
    <title>Example of Rollover Buttons</title>
    <link rel="stylesheet" type="text/css" href="styles.css">
  </head>
  <body>
    <h1>Example of Rollover Buttons</h1>

    <a href="result.html"
      onmouseover="document.button.src = 'button_on.jpg'"
      onmouseout="document.button.src = 'button_off.jpg'">
      
    </a>

    <br/>

    <a href="improved.html">Improved Example</a>
  </body>
</html>
```

## 13. EXECUTE THE PROJECT

We execute the project, and when we put the cursor on the button, the event is activated and the color button changes as follows:





# EXERCISE CONCLUSION

With this exercise we have put into practice the concept of Rollover, and with this we can add it to any of our html forms.

We saw two examples, one using html events directly and the other hiding more the code and adding JavaScript functions to manage the change of images.



**ONLINE COURSE**

# **HTML, CSS AND JAVASCRIPT**

---

Por: Ing. Ubaldo Acosta



**HTML, CSS AND JAVASCRIPT COURSE**

[www.globalmentoring.com.mx](http://www.globalmentoring.com.mx)