Style visibility Property

**<!DOCTYPE html>**

**<html>**

**<body>**

**<img id="myImg" src="w3javascript.gif" width="100" height="132">**

**<br>**

**<button type="button" onclick="hideElem()">Hide image</button>**

**<button type="button" onclick="showElem()">Show image</button>**

**<script>**

**function hideElem() {**

**document.getElementById("myImg").style.visibility = "hidden";**

**}**

**function showElem() {**

**document.getElementById("myImg").style.visibility = "visible";**

**}**

**</script>**

**</body>**

**</html>**

# onkeyup Event

**<!DOCTYPE html>**

**<html>**

**<body>**

**<input type="text" id="demo" onkeydown="keydownFunction()" onkeyup="keyupFunction()">**

**<script>**

**function keydownFunction() {**

**document.getElementById("demo").style.backgroundColor = "red";**

**}**

**function keyupFunction() {**

**document.getElementById("demo").style.backgroundColor = "green";**

**}**

**</script>**

**</body>**

**</html>**

**<!DOCTYPE html>**

**<html>**

**<body>**

**<input type="text" onkeypress="myFunction()">**

**<script>**

**function myFunction() {**

**alert("You pressed a key inside the input field");**

**}**

**</script>**

**</body></html>**

# HTML DOM innerHTML Property

The innerHTML property sets or returns the HTML content (inner HTML) of an element.

**<!DOCTYPE html>**

**<html>**

**<body>**

**<p id="demo" onclick="myFunction()">Click me to change my HTML content (innerHTML).</p>**

**<script>**

**function myFunction() {**

**document.getElementById("demo").innerHTML = "Paragraph changed!";**

**}**

**</script>**

**</body>**

**</html>**

**<!DOCTYPE html>**

**<html>**

**<body>**

**<p id="demo">Click the button to delete my HTML content (innerHTML).</p>**

**<button onclick="myFunction()">Try it</button>**

**<script>**

**function myFunction() {**

**document.getElementById("demo").innerHTML = "";**

**}**

**</script>**

**</body>**

**</html>**

# HTML <input> pattern Attribute

**<form action="demo\_form.asp">**

**Password: <input type="password" name="pw" pattern=".{6,}" title="Six or more characters">**

**<input type="submit">**

**</form>**

**<form action="demo\_form.asp">**

**Country code: <input type="text" name="country\_code" pattern="[A-Za-z]{3}" title="Three letter country code">**

**<input type="submit">**

**</form>**

**<form action="demo\_form.asp">**

**Password: <input type="password" name="pw" pattern="(?=.\*\d)(?=.\*[a-z])(?=.\*[A-Z]).{8,}" title="Must contain at least one number and one uppercase and lowercase letter, and at least 8 or more characters">**

**<input type="submit">**

**</form>**

**<form action="demo\_form.asp">**

**E-mail: <input type="email" name="email" pattern="[a-z0-9.\_%+-]+@[a-z0-9.-]+\.[a-z]{2,3}$">**

**<input type="submit">**

**</form>**

## JavaScript Form Validation

**<!DOCTYPE html>**

**<html>**

**<head>**

**<script>**

**function validateForm() {**

**var x = document.forms["myForm"]["fname"].value;**

**if (x == null || x == "") {**

**alert("Name must be filled out");**

**return false;**

**}**

**}**

**</script>**

**</head>**

**<body>**

**<form name="myForm" action="demo\_form.asp"**

**onsubmit="return validateForm()" method="post">**

**Name: <input type="text" name="fname">**

**<input type="submit" value="Submit">**

**</form>**

**</body></html>**

**<!DOCTYPE html>**

**<html>**

**<body>**

**<form action="demo\_form.asp" method="post">**

**<input type="text" name="fname" required>**

**<input type="submit" value="Submit">**

**</form>**

**<p>If you click submit, without filling out the text field,**

**your browser will display an error message.</p>**

**</body>**

**</html>**