

```
Functions

JavaScript instructions are usually grouped together in a function:

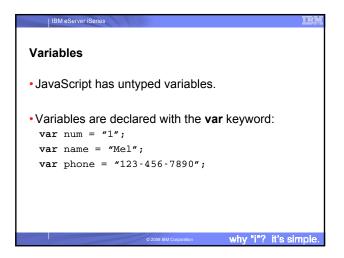
<script language="javascript">
function myFunction(parameters) {
    // some logical grouping of code
}

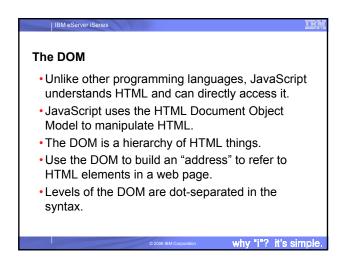
</script>

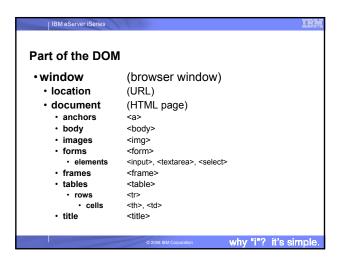
Like a method, procedure, or subroutine.

Functions are called by events.
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Referencing the DOM

Levels of the DOM are dot-separated.

By keyword and array number (0+)
window.document.images[0]
window.document.forms[1].elements[4]

By names (the name attribute in HTML)
window.document.mygif
(<img src="file.gif" name="mygif">)
window.document.catform.fname
(<form name="catform" . . .>
<input name="fname" . . .>)
```



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Alerts

• A JavaScript alert is a little window that contains some message:
alert("This is an alert!");

• Are generally used for warnings.

• Can get annoying—use sparingly.
```

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Code

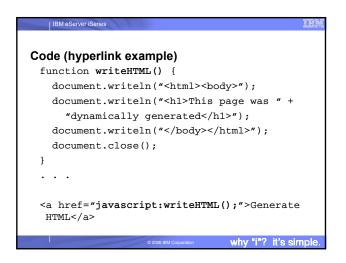
<html>
<head>
<script language="javascript">
function showAlert(text) {
    alert(text);
}
</script>
</head>
<body onload="showAlert('This alert displays when the page is loaded!');">

...

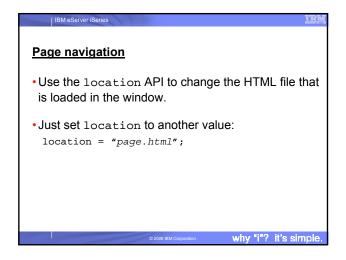
OR <body onload="alert('This alert...');">

why "i"? it's simple.
```

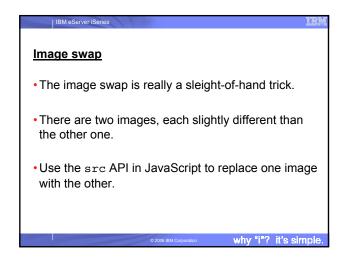
```
Write to the browser
• JavaScript can dynamically generate a new HTML page. Use document.writeln("text");
• Cannot add to the current page.
• When you're done, use document.close();
• This flushes the buffer, and the generated document is then loaded into the browser.
• If the HTML code you're generating contains quotation marks, you must escape them with a backslash:
document.writeln("<a href=\"file.html\">");
* Why "i"? it's simple.
```



```
IBM eServer iSeries
Code (textbox example)
 <script language="javascript">
 function dynamicName() {
  var who = window.document.mvform.name.value;
  document.writeln("<html><body>");
  document.writeln("<h1>Hello, " + who + "!</h1>");
  document.writeln("</body></html>");
  document.close();
 </script>
 </head>
 <body>
 <form name="myform" onSubmit="dynamicName();">
  Enter your name: <input type="text" name="name">
  <input type="submit" value="Submit">
 </form>
                                            why "i"? it's simple
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IBM eServer iSeries
Code
  <script language="javascript">
  function goPage() {
   var pg = document.theForm.aPage.value;
   location = "page" + pg + ".html";
  </script>
  <form name="theForm">
    <select name="aPage" onChange="goPage();">
     <option selected>Choose a page
     <option value="1">Page 1</option>
     <option value="2">Page 2</option>
      <option value="3">Page 3</option>
      <option value="4">Page 4</option></select>
    <input type="reset">
  </form>
                                           why "i"? it's simple
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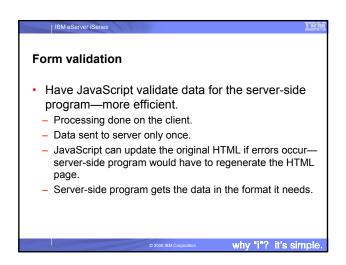


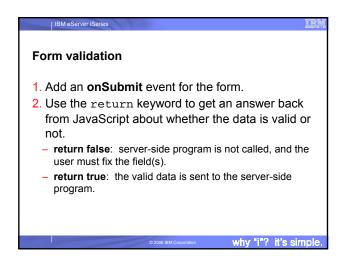
```
Code

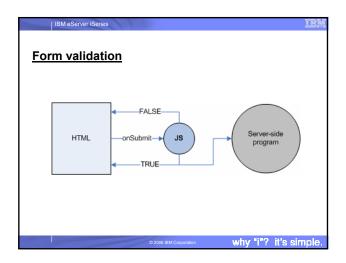
<script language="javascript">
function swap(file) {
  document.globe.src=file;
}
</script>
. . .
<img name="globe" src="globe.jpg"
  onMouseOver="swap('globe2.jpg');"
  onMouseOut="swap('globe.jpg');">

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why "i"? it's simple.
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IBM eServer iSeries
All fields: JavaScript code
<script language="javascript">
function checkAll() {
  for (i = 0; i < document.fields.elements.length; i++) {
    var f = document.fields.elements[i];
    if (f.value == "") {
      alert("Please enter a value for Field " + (i + 1));
      f.stvle.borderColor="#FF0000";
      f.focus();
      return false;
    }
  }
  return true;
</script>
                                            why "i"? it's simple
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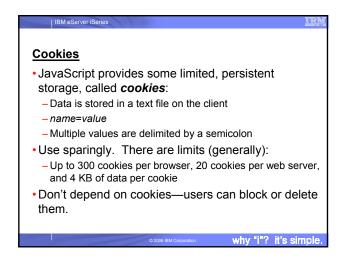
```
Phone number: HTML code
...

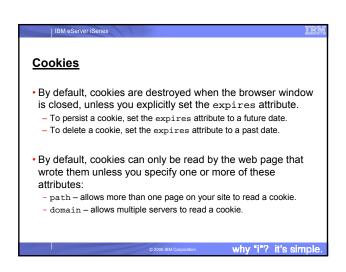
<form onsubmit="javascript: return validPhone();"
action="/cgi-bin/getphone" method="post" name="phone">

Please enter your phone number:
(<input type="text" name="area" size="3" maxlength="3">)
<input type="text" name="pre" size="3" maxlength="3"> -
<input type="text" name="last" size="4" maxlength="4">

<input type="reset">
<input type="reset">
<input type="reset">
<input type="submit" value="Submit">
</form>
...
```

```
IBM eServer iSeries
Phone number: JavaScript code
function validPhone() {
var phNum = document.phone.area.value +
 document.phone.pre.value + document.phone.last.value;
 // Check for numbers only
 for (i = 0; i < phNum.length; i++) {
   if (phNum.charAt(i) < "0" || phNum.charAt(i) > "9") {
     alert ("Please enter only numbers.");
     return false;
 // Check for 10 digits
 if (phNum.length < 10) {
   alert("Please enter your 10-digit phone number.");
   return false;
 return true;
                                            why "i"? it's simple
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```
JavaScript code (set the cookie)

function setCookie() {
  if (window.document.cookieForm.persist.checked) {
    // Get the date and set it to next year
    var expDate = new Date();
    expDate.setFullYear(expDate.getFullYear() + 1);

  var who = window.document.cookieForm.username.value;
  document.cookie = "username=" + who + ";" +
    "expires=" + expDate.toGMTString();
  } else {
    deleteCookie();
  }
  return true;
}
```

```
JavaScript code (read the cookie)

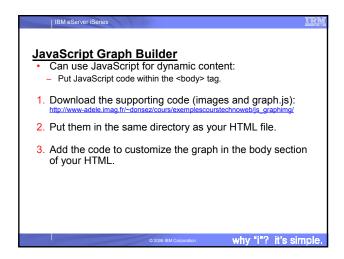
function readCookie() {
  if (document.cookie) {
    var theCookie = document.cookie;
    var pos = theCookie.indexOf("username=");
    if (pos != -1) {
      var cookie_array = theCookie.split("=");
      var value = cookie_array[1];

    // Load the stored username into the form
    window.document.cookieForm.username.value=value;
    window.document.cookieForm.persist.checked=true;
    }
}
}
}
```

```
JavaScript code (delete the cookie)

function deleteCookie() {
  if (document.cookie) {
    // Get a date and set it to last year
    var expDate = new Date();
    expDate.setFullYear(expDate.getFullYear() - 1);

  document.cookie = "username=" + "" + ";" +
        "expires=" + expDate.toGMTString();
  }
}
```



```
IBM eServer iSeries
Code
<script language="javascript" src="graph.js"></script>
</head>
<body>
<script>
var g = new Graph(370, 200);
g.scale = 10000;
g.xLabel = "Month";
g.yLabel = "Number of Rants";
g.title = "Rants 2005";
g.setXScaleValues("Jan", "Feb", "Mar", "Apr", "May", "Jun",
 "Jul", "Aug", "Sep", "Oct", "Nov", "Dec");
g.addRow(90000, 80000, 60000, 20000, 10000, 30000, 28000, 15000, 18000, 68000, 92000, 75000);
q.build();
</script>
                                                why "i"? it's simple
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