Dynamic - HTML

❖ **D-HTML is the fusion of various web coding technologies that allows *dynamic* web content.**
  ◆ D-HTML allows content presentation to change with user interaction or time
  ◆ XHTML alone will create static (unchangeable) pages.
  ◆ D-HTML = XHTML + CSS + JavaScript + EM + DOM
❖ **JavaScript = Scripted Programming Language**
❖ **EM = Event Model**
  ◆ onclick = Click mouse on object event
  ◆ onmouseover = Mouse over object
❖ **DOM = Document Object Model**
  ◆ document.frmCalc.txtEntry.value
  ◆ <img id="imgMain" src="ToriGate.jpg">

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Rollovers

❖ **Rollovers are an image swapping technique**
  ◆ Allows users to swap images when the mouse cursor "rolls over" the image
  ◆ Rollovers work with the 3.0+ browsers
❖ **Create two images, one for each mouse rollover state to implement**
  ◆ Best to do editing and save vectored graphic
  ◆ Then convert each selectable image to gif or jpeg
❖ **Rollovers use two mouse event handlers**
  ◆ onmouseover = Mouse over object
  ◆ onmouseout = Mouse out of object
❖ **DOM-0: Rollovers use img Tag name attribute**

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How to Create Image Rollovers

Step 1: Label the Image Object

```
<img src="btHomeN.gif" width="59" height="29"
name="imgHome" />
```

Step 2: Encapsulate Image in Link

```
<a href="../../index.html">
  <img src="btHomeN.gif" width="59" height="29"
  name="imgHome" /> </a>
```

Step 3: Create Swap Image Event Handler

```
<a href="../../index.html"
onmouseover="document.imgHome.src='btHomeV.gif' " >
<img src="btHomeN.gif" width="59" height="29"
name="imgHome" /></a>
```

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How to Image Create Rollovers

Do you want to revert back to original image when the mouse is not over?

Step 4: Restore original image using ONMOUSEOUT event

```
<a href="../../index.html"
onmouseover="document.imgHome.src='btHomeV.gif' "
onmouseout="document.imgHome.src='btHomeN.gif' ">
<img src="btHomeN.gif" width="59" height="29"
name="imgHome" />
</a>
```

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A Better Rollover: Preloaded Images

```
<head><title>rollover demo</title>
<script type="text/javascript">
        var butHomeNorm = new image;
        var butHomeOver = new image;
        butHomeNorm.src = "btHomeN.gif";
        butHomeOver.src = "btHomeV.gif";
</script>
</head>
<body>
<a href="../../index.html"
onmouseover="document.imgHome.src=butHomeOver.src"
onmouseout="document.imgHome.src=butHomeNorm.src">
<img src="btHomeN.gif" width="59" height="29"
name="imgHome" /></a>
</body>
```

Single Rollover with Multiple Actions

❖ **Swap the link image**
❖ **Swap another image**
❖ **Swap status bar text**


```
<a href="../../index.html"
  onmouseover="document.imgHome.src=butHomeOver.src;
      document.imgDiamond.src='bltDiamondV.gif';
      window.status='click to go home!'; return true; "
  onmouseout="document.imgHome.src=butHomeNorm.src;
      document.imgDiamond.src='bltDiamond.gif';
      window.status=''; return true; " >
<img src="btHomeN.gif" width="59" height="29"
  name="imgHome" border="0"></a>  
<img src="bltDiamond.gif" width="13" height="13"
  name="imgDiamond">
```

CSS Text RollOvers

❖ **Works on text only by using the CSS color and background-color properties and the a:hover pseudo-class to achieve mouse over effects**
❖ **Turns off underline for hyperlinks**
  a { text-decoration: none; }   *[none | underline | overline]*
❖ **<a> pseudo-classes are available**
  a:link { text-decoration: none; color: #CC0000; }
  a:visited { text-decoration: none; color: #3300CC; }
  a:focus { text-decoration: underline; }
  a:hover { text-decoration: underline; color: #FF3300; background-color: #CCFFCC; }
  a:active { text-decoration: none; color: #FF9966; }
❖ **A hyperlink can have only one state at a time so best to use above order**

CSS Image RollOvers

❖ **Utilizes only one image with a visibility mask for visible area (No Image Preload Required)**
  http://www.tutorio.com/tutorial/pure-css-image-rollovers

```
<div id="rolloverHome">
 <a href="../../core.html" title="&laquo; Home"> </a> </div>

  #rolloverHome a {
        position: static;
        display:block;
        height: 50px;
        width: 50px;
        margin-top: 30px;
        margin-left:25px;
        margin-bottom: 30px;
        background: #990000 url("btHome.gif") no-repeat;
        text-decoration: none;
  }
  #rolloverHome a:hover { background-position: 0 -51px;}
  #rolloverHome a:active { background-position: 0 -102px; }
```