

use DOM scripting to enhance functionality,  
not create it.

# UNOBTRUSIVE DOM SCRIPTING

- the art of adding Javascript to your page in such a way that if there were NO Javascript, the page would still work

RULE #1: SEPARATE JAVASCRIPT  
FUNCTIONALITY



Bad Code

```
<a href="backuplink.html"  
onclick="alert('You did something, woo  
hoo! ')" >Click!</a>
```



Good Code!

```
<a href="backuplink.html"  
class="doSomething">Click!</a>
```

...

```
$( 'a.doSomething' ).click(function(){  
    // Do something here!  
    alert('You did something, woo hoo!');  
});
```

...

RULE #2: NEVER DEPEND ON JAVASCRIPT



Bad Code

```
<script language="javascript">  
var now = new Date();  
if(now.getHours() < 12)  
    document.write('Good Morning!');  
else  
    document.write('Good Afternoon!');  
</script>
```



Good Code!

```
<p title="Good Day Message">Good Morning!</p>
```

```
var now = new Date();  
if(now.getHours() >= 12)  
{  
    var goodDay = $('p[title="Good Day Message"]');  
    goodDay.text('Good Afternoon!');  
}
```



RULE #3: SEMANTIC AND ACCESSIBLE  
MARKUP COMES FIRST



Bad Code

```
<table>
  <tr>
    <td onclick="doSomething();">First Option</td>
    <td>First option description</td>
  </tr>
  <tr>
    <td onclick="doSomething();">Second Option</td>
    <td>Second option description</td>
  </tr>
</table>
```



Good Code!

```
<dl id="OptionList">  
  <dt>First Option</dt>  
  <dd>First option description</dd>  
  <dt>Second Option</dt>  
  <dd>Second option description</dd>  
</dl>
```



Good Code!

```
$(document); // Activate jQuery for object  
$('#mydiv') // Element with ID "mydiv"  
$('p.first') // P tags with class first.  
$('p[title="Hello"]') // P tags with title "Hello"  
$('p[title^="H"]') // P tags title starting with H
```



Bad Code

```
<script language="javascript">  
alert('Hello World');  
</script>
```



Good Code!

```
$(document).ready(function()  
{  
    alert('Hello World');  
});
```

# Native JavaScript Functions



Bad Code

```
var numbers = [3, 342, 23, 22, 124];  
var max = 0;  
for(var i=0; i<numbers.length; i++){  
    if(numbers[i] > max){  
        max = numbers[i];  
    }  
}  
alert(max);
```





Bad Code

```
var numbers = [3, 342, 23, 22, 124];  
numbers.sort(function(a, b){return b - a});  
alert(numbers[0]);
```



Good Code!

```
Math.max(12,123,3,2,433,4); // returns 433
```



Bad Code

```
function addclass(elm,newclass){  
  var c = elm.className;  
  elm.className = (c === '') ? newclass : c+' '+newclass;  
}
```



Good Code!

```
function addclass(elm,newclass){  
  var classes = elm.className.split(' ');  
  classes.push(newclass);  
  elm.className = classes.join(' ');  
}
```

Event Delegate

```
<h2>Great Web resources</h2>
```

```
<ul id="resources">
```

```
  <li><a href="http://opera.com/wsc">Opera Web Standards  
Curriculum</a></li>
```

```
  <li><a href="http://sitepoint.com">Sitepoint</a></li>
```

```
  <li><a href="http://alistapart.com">A List Apart</a></li>
```

```
  <li><a href="http://yuiblog.com">YUI Blog</a></li>
```

```
  <li><a href="http://blameitonthevoices.com">Blame it on the  
voices</a></li>
```

```
  <li><a href="http://oddlyspecific.com">Oddly specific</a></  
li>
```

```
</ul>
```



## Bad Code

```
// Classic event handling example
(function(){
    var resources = document.getElementById('resources');
    var links = resources.getElementsByTagName('a');
    var all = links.length;
    for(var i=0;i<all;i++){
        // Attach a listener to each link
        links[i].addEventListener('click',handler,false);
    };
    function handler(e){
        var x = e.target; // Get the link that was clicked
        alert(x);
        e.preventDefault();
    };
})();
```



Good Code!

```
(function(){  
  var resources = document.getElementById('resources');  
  resources.addEventListener('click', handler, false);  
  function handler(e){  
    var x = e.target; // get the link tha  
    if(x.nodeName.toLowerCase() === 'a'){  
      alert('Event delegation:' + x);  
      e.preventDefault();  
    }  
  };  
})();
```