

Single Page Applications (SPA)

JavaScript to modify DOM

John Feiner

Unobtrusive JS

No hint to JavaScript within HTML code

```
...  
<head>  
<script type="text/javascript" src="js/demo.js" defer></script>  
...  
</head>  
...  
<body>  
  <!-- NOTE: no single JavaScript statement in here -->  
  <h1 id="h1">Look for changes on mouseover</h1>  
  
  <a id="l1" title="click this link to trigger changes!" href="#" >Click to  
  trigger changes...</a> <br />  
  
  <button id="b1" type="button" onclick="#">press</button>  
  
  <!-- the output will be put here (by javascript funktion tst) -->  
  <div id="res"> --- output --- </div>  
  
</body>
```

Unobtrusive JS

JavaScript code binds functions to DOM nodes:

- `getElementById`
- `onclick`
- `innerHTML`

```
// give unobtrusive javascript a try:  
var myheading = document.getElementById('h1');  
if (myheading) { myheading.onmouseover = tst;} // NOT: tst()
```

```
var mybutton = document.getElementById('b1');  
if (mybutton) { mybutton.onclick = tst; }
```

```
var mylink = document.getElementById('l1');  
if (mylink) { mylink.onclick = tst; }
```

```
// the function to call  
function tst(){  
    count++;  
    document.getElementById("res").innerHTML=  
        "click count = "+count;  
}
```