

JavaScript Layout Tricks

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Long Term Results

Quick question

How do you use JavaScript?

”Only for form validation”

”I adapt examples”

”I get how it works”

DOM

Browsers and the DOM

(The big reason JavaScript sucked)

DOM

Avoid browser detection,
use object detection instead!

```
if (document.images) {  
    // you can use the array images  
}
```

Writing JavaScript

Stuff that might hit you
when programming JavaScript.

Writing JavaScript

```
'0' == ''           false
0 == ''            true
0 == '0'           true

'\t\r\n' == 0      true

typeof (null) == object  true

(0.1 + 0.2) == 0.3    false
```

Frameworks

Custom, YUI, jQuery or ...?

Adding a click event

```
var sayHello = function () {  
    alert('Hello!');  
};  
  
// plain old JavaScript  
var b = document.getElementById('mybutton');  
b.onClick(sayHello);
```


Adding a click event

```
// YUI framework  
YAHOO.util.Event.addListener('mybutton',  
    'click', sayHello);
```

Adding a click event

```
// jQuery framework  
$( '#mybutton' ).click( sayhello );
```

Shameless jQuery plugs

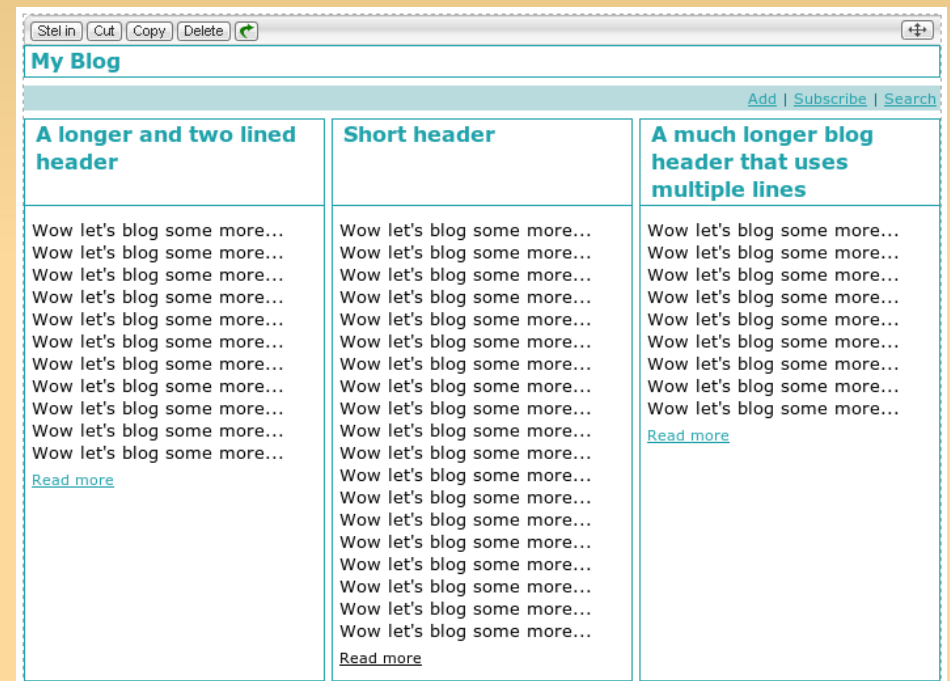
```
// use css3 selectors in every browser
$('#cont img, #foot img').click(showBigImg);

// something to do after the click
var showBigImg = function () {
    var srcValue = $(that).attr(src);
    ...
};

// or use attribute filters for precision
$('img[fullsize]').click(showBigImg);
```

Column heights

Scripting a function to create an even height on adjacent articles and headers.



Column heights

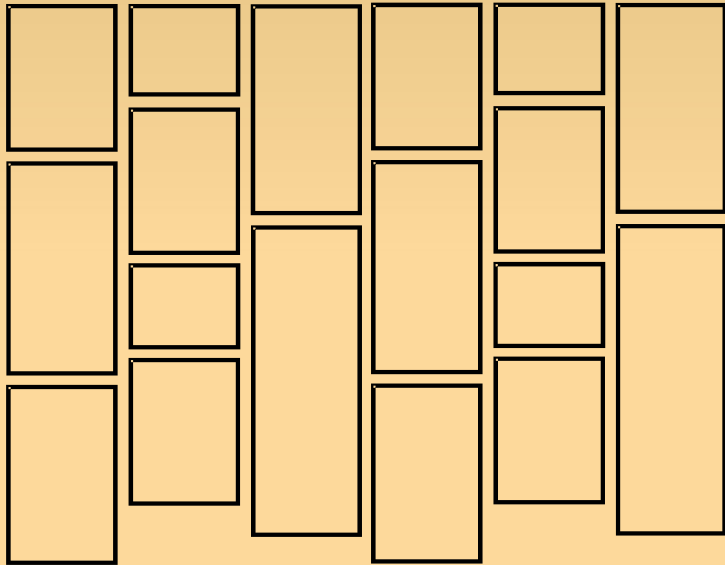
```
// find the outerblock(s) of interest
```

```
// find the innerblocks of interest
```

```
// loop the innerblocks,  
//     remember tallest height
```

```
// loop the innerblocks and set the height
```

Newspaper style colomns



Let JavaScript make a newspaper column layout.

jQuery Masonry

```
$.fn.masonry = function() {  
    this.each(function() {  
        var wall = $(this);  
  
        // check if the element has anything in it  
        if ( wall.children().length > 0 ) {  
            // checks if the masonryWrap div is already there  
            if( wall.children('.masonryWrap').length == 0 ) {  
                wall.wrapInner('<div class=\"masonryWrap\"></div>');  
            }  
  
            var mWrap = wall.children('.masonryWrap');  
  
            var brick = mWrap.children();  
  
            var brickW = brick.outerWidth(true);  
  
            var colCount = Math.floor( mWrap.width() / brickW ) ;  
        }  
    });  
}
```

YUI Masonry

```
var masonry = function (params) {  
    var outerContainerEl, innerContainerEl, bricks,  
        brickW, outerContainerWidth, colCount, colNumber, thisCol;  
    var colHeights = [];  
  
    function getHeight(el) { // far from perfect, outerHeight is better  
        var region= YAHOO.util.Dom.getRegion(el);  
        return region.bottom - region.top;  
    }  
  
    function getWidth(el) { // far from perfect, outerHeight is better  
        var region= YAHOO.util.Dom.getRegion(el);  
        return region.right - region.left;  
    }  
}
```


JavaScript

JavaScript rocks!

Check out the examples on:
<http://www.myfirstswiftysite.nl/>