

# 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

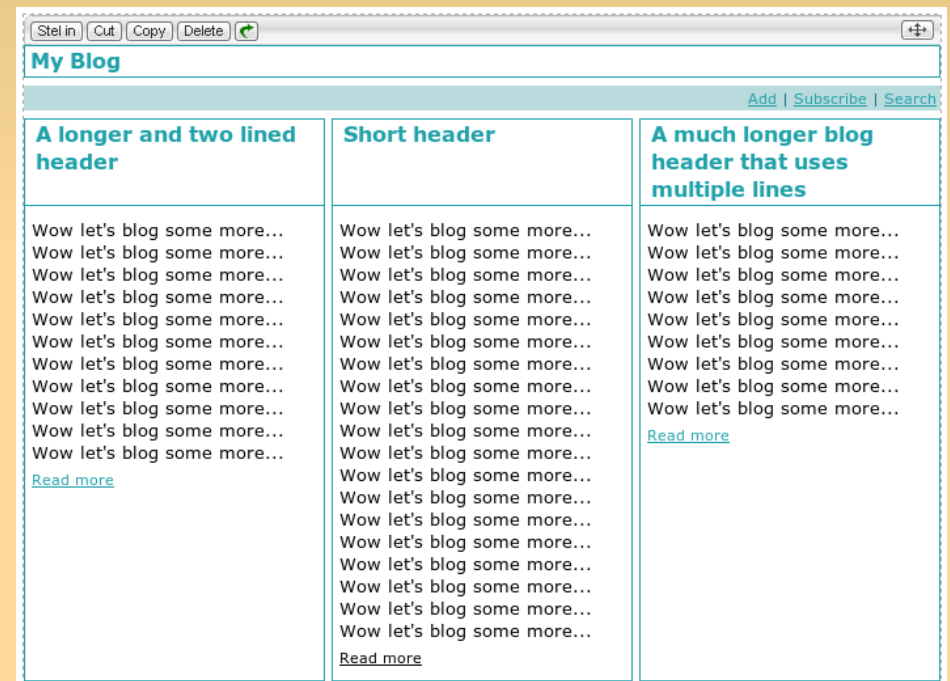
```
// use css3 selectors in every browser
$('#cont img, #foot img').click(showBigImg);

// 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

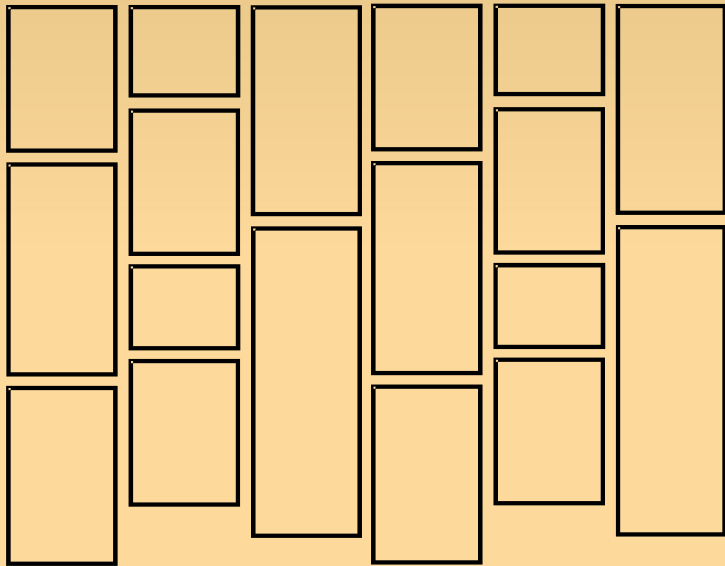
```
// find the outerblock(s) of interest
```

```
// 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/>