



Developing a Plugin



The Original Function

```
/* Make Element Standout */  
function standout(element){  
    element.style.border = "1px solid #f00";  
}  
  
standout(document.getElementById( 'myelement' )  
);
```

- 1. Convert to Plugin**
- 2. Encapsulate Plugin Specific Code**
- 3. Support Chaining**
- 4. Expose Global Defaults**
- 5. Support “Per-Call” Configuration**
- 6. Support “Per-Element” Configuration**

```
/* plugin code */  
$.fn standout = function()  
  this.css("border", "1px solid #f00");  
}  
  
$("div").standout()
```

Encapsulate Plugin Specific Code

```
(function($){  
  
    /* plugin code */  
    $.fn standout = function()  
        debug(this);  
        this.css("border", "1px solid #f00");  
    };  
  
    /* private debug method */  
    function debug(o) {  
        console.log("Count:" + o.length);  
    }  
  
})(jQuery);
```

```
(function($){  
  
    /* plugin code */  
    $.fn standout = function()  
        debug(this);  
        return this.css("border", "1px solid #f00");  
    }  
  
    function debug(o) { ... }  
  
})(jQuery);  
  
$("div").standout().fadeOut()
```

Expose Global Defaults

```
/* plugin code */
$.fn standout = function()
    if ($.fn standout.defaults.debug){ debug(this); }

    return this.css(
        "border", $.fn standout.defaults.borderStyle
    );
}

/* global defaults */
$.fn standout.defaults = {
    borderStyle : "1px solid #f00"
    debug: window.console && window.console.log
}
```


Support “Per-Call” Configuration

```
/* plugin code */  
$.fn standout = function(opts)  
    var o = $.extend({}, $.fn standout.defaults, opts);  
    return this.css("border", o.borderStyle);  
};
```

```
/* global defaults */  
$.fn standout.defaults = {  
    borderStyle : "1px solid #f00"  
    debug: window.console && window.console.log  
}
```

```
$("div").standout({debug:false})
```

Support “Per-Element” Configuration



```
/* plugin code */
$.fn standout = function(opts)
  var o = $.extend({}, $.fn.standout.defaults, opts);
  return this.each(function() {
    var t = $(this);
    var eo = $.meta ? $.extend({}, o, t.data()) : o;
    t.css("border", eo.borderStyle);
  });
};
```

```
<div class="{borderStyle: '1px solid blue'}"></div>
```

Static Plugins



```
(function($){  
    /* extract a parameter from URL */  
    $.getParam = function(name) {  
        var param = new RegExp(  
            '[\\?&]' + name + '=(^[&#]*)'  
        ).exec(window.location.href);  
  
        return (param) ? param[1] : null;  
    };  
})(jQuery);
```

```
// http://www.mysite.com/?username=jameshu  
$.getParam("username"); // <-- "jameshu"
```

getParam Method (Alternative)

```
$.extend({  
    /* extract a parameter from URL */  
    getParam : function(name) {  
        var param = new RegExp(  
            '\\?&' + name + '=(^[&#]*)'  
        ).exec(window.location.href);  
  
        return (param) ? param[1] : null;  
    }  
});
```

Pseudo Selectors



Modified Input Field Selector

```
/* Add Modified Input Field Selector */  
$.extend($.expr[':'], {  
    modified: function(el, idx, tokens) { /* tokens[3] = args */  
        return $(el).is("input") && el.defaultValue != el.value;  
    }  
});
```

```
/* Clear all modified input elements */  
$("input:modified").val("");
```

Questions?

