

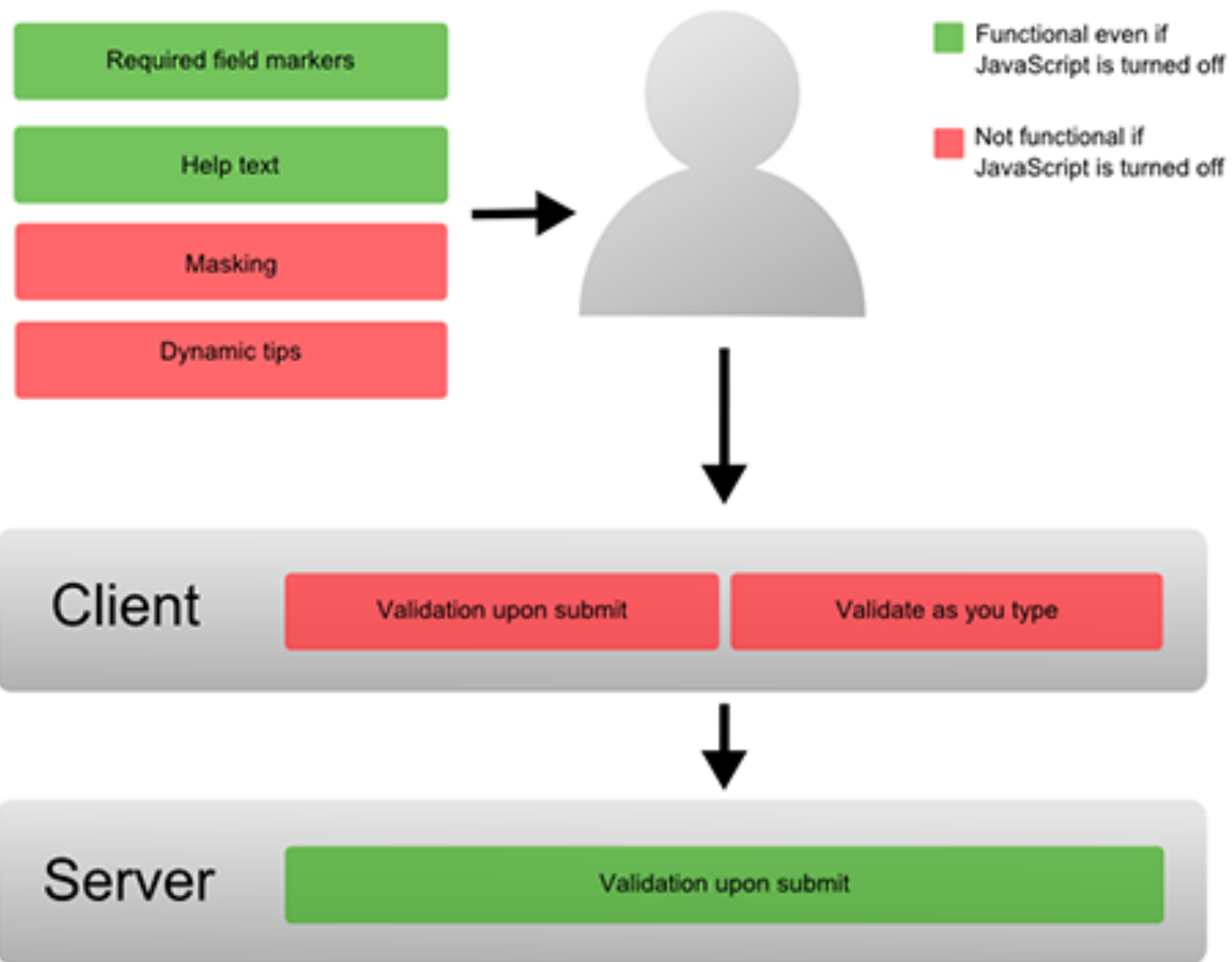
Web 2.0 應用技術-CSS, JavaScript 及 HTML

CM310.1-03-2013-C

Lesson 4

Outline


- Ajax
- Form Validation
- Plugins



What to validate

- Required Fields (*)
- Correct Format
- Confirmation Fields

Help Hints

USERNAME:	<input type="text"/>	Your username may contain letters, numbers, underscores and spaces. It will be used in your Wishlistr url.
PASSWORD:	<input type="password"/>	Your password must be between 8 and 16 characters long. Spaces are not allowed.
PASSWORD:	<input type="password"/>	Just to make sure you entered it correctly.
<div>SIGN UP </div>		Click the button and you're done!

* First Name:	<input type="text"/>
* Last Name:	<input type="text"/>
? * Email Address:	<input type="text"/>
? * Business Paypal Account	<input type="text"/>
? * Paypal Currency:	<input type="text" value="\$ USD"/>
Don't have a Business Paypal Account? Click here to get one for free!	
? Voucher code (optional)	<input type="text"/>

This is the currency that your Business Paypal Account is setup to use. [Click here to get one for free!](#)

Instant Validation Feedback

Blog URL

Email Email taken or invalid. If you have an account [sign in](#).

Password

Display Name

Gender ☐ Male ☐ Female ☐ Decline to state

Birthday

Dynamic Tips

- Masking and Reformatting User's Input
- Typecast <http://typecast.arapehlivanian.com/index.html>
- jQuery Masked input plugin <http://digitalbush.com/projects/masked-input-plugin/>

Realtime Masking

Phone:

Fax:

Date of birth:

Credit Card:

Credit Card 2:

Postal Code:

Are you human?

- CAPTCHA
- Completely Automated Public Turing test to tell Computers and Humans Apart

$2 + 2 = ?$ Answer?

AMfrb Celia

Type the two words:

reCAPTCHA™
stop spam.
read books.

jQuery Plugins

A basic plugin template

- The `this` keyword within the new plugin refers to the jQuery object on which the plugin is being called:

```
$.fn.myNewPlugin = function() {  
    //do sth with #target (this)  
    return this;  
};
```

```
$('#target'). myNewPlugin();
```

- Also, return `"this"` to let it support chaining.

Make a plugin to support collections

- Let it support the collection target, use `this.each()` to do so:

```
$.fn.myNewPlugin = function() {  
    return this.each(function(){  
        //do something  
    });  
};  
$('.target'). myNewPlugin();
```

Make it private

- This has the effect of creating a "private" scope that allows us to extend jQuery using the dollar symbol without having to risk the possibility that the dollar has been overwritten by another library:

```
(function($){  
    $.fn.myNewPlugin = function() {  
        return this.each(function(){  
            // do something  
        });  
    };  
})(jQuery);  
$('.target'). myNewPlugin();
```

Show Link Location Plugin

```
<a href="page.html">Foo</a> <a  
href="page.html">Foo (page.html)</a>  
(function($){  
    $.fn.showLinkLocation = function() {  
        return this.filter('a').append(function(){  
            return ' (' + this.href + ')';  
        });  
    };  
})(jQuery);  
$('a'). showLinkLocation();
```

Slideshow plugin

```
(function($){  
    $.fn.slideshow = function(){  
        var $slideshow = $(this);  
        $slideshow.find('li').hide();  
        $slideshow.find('li:first').fadeIn();  
        var rotate = function(){  
            var $current = $slideshow.find('li:visible');  
            $current.hide();  
            var $next_li = $current.next('li');  
            if( $next_li.length == 0 ){  
                $next_li = $slideshow.find('li:first');  
            }  
            $next_li.fadeIn();  
        }  
    }  
})
```

Slideshow plugin (cont.)

```
var $btn = $("<button>rotate</button>").click(rotate);  
setInterval(rotate, 3000);  
return $slideshow.append($btn);  
}  
})(jQuery);
```

Advance - with an option

A plugin with an option:

```
(function($) {  
    $.fn.slideshow = function(interval){  
        var $slideshow = $(this);  
        // ...  
        setInterval(rotate, interval );  
        return $slideshow.append($btn);  
    }  
})(jQuery);  
$('#slideshow').slideshow(3000);
```


Advance - with options / configuration

A plugin with options / configuration using object:

```
(function($) {  
    $.fn.slideshow = function(opts){  
        var $slideshow = $(this);  
        // ....  
        var $btn = $("<button>" + opts.btnText + "</  
button>").click(rotate);  
        setInterval(rotate, opts.interval );  
        return $slideshow.append($btn);  
    }  
})(jQuery);  
$('#slideshow').slideshow( { interval: 3000 , btnText : "next" } );
```

Advance - options with default values

jQuery built-in function `$.extend` helps your to merge objects

```
(function($) {  
    $.fn.slideshow = function(options){  
        var opts = $.extend( {interval: 3000 , btnText : "next" }, options);  
        var $slideshow = $(this);  
        // ....  
        var $btn = $("<button>" + opts.btnText + "</button>").click(rotate);  
        setInterval(rotate, opts.interval );  
        return $slideshow.append($btn);  
    }  
})(jQuery);  
$('#slideshow').slideshow( { btnText : "next" } );
```

How to Find jQuery Plugins

- Search “most popular jQuery plugins”
- View the source code of a dynamic website

Slider

- Coda Slider (<http://kevinbatdorf.github.com/codaslider/>)
- easySlider (<http://cssglobe.com/easy-slider-17-numeric-navigation-jquery-slider/>)
- s3Slider (<http://www.serie3.info/s3slider/index.php>)
- CrossSlide (<http://tobia.github.com/CrossSlide/>)
- simplyScroll (<http://logicbox.net/jquery/simplyscroll/>)

Photos

- ColorBox (<http://www.jacklmoore.com/colorbox>)