jQuery Behaviours

bind, live, livequery

Unobstrusive Javascript

Clean separation of

- Data (HTML)
- Style (CSS)
- Behaviour (Javascript)

```
<form id="myForm" onsubmit="doSomething()">
    ...
</form>
...
<script type="text/javascript">
    $('#myForm').submit(function() { /* do something */ });
</script>
```

Javascript Events

In Javascript, events bubble up.

Clicking the button bubbles the event up (button > div > body)

However IE doesn't play nice with form events (select, change, submit, reset), they don't bubble (1).

Event Delegation

Event delegation is the practice of letting events bubble up to a handling node.

```
$('table').click(function(event) {
   alert(event.target.innerHTML);
});
```

r1c1	r1c2	r1c3
r2c1	r2c2	r2c3

As the target always points to the element the event happened on, clicking on any cell will result in its contents being alerted.

Adding new rows

When adding new cells, no extra work is required.

Clicking a new row will bubble up to the table's click handler.

Demo

In practice you would want to check the element is of the correct type/class etc.

Binding Mechanisms in jQuery

There are a number of ways of binding behaviour in jQuery

bind	\$('form').bind('submit', function(){})
live	\$('form').live('submit', function(){})
liveQuery	\$('form').liveQuery('submit', function(){})

Commonly when using bind you would use the shortcut method: \$('form').submit(function(){})

Comparison Grid

	Dynamic	Event Delegation	IE6 Form Events	jQuery Core
bind	No	No	Yes	Yes
live	Yes	Yes	No	Yes
liveQuery	Yes	No	Yes	No (plugin)

Facebox Use Case



<u>Facebox</u> uses jQuery's clone method to copy the required content into its modal dialog.

Any behaviours initialised with bind aren't applied to the facebox content.

Facebox with jQuery.live

Solution, use jQuery.live to apply behaviours using the event delegation style.

```
$('form').live('submit', function() {
   // submit form via ajax
   return false;
});
```

Simple!

What about Internet Exploder?



Recall that IE doesn't bubble form events... like submit.

Using jQuery.live doesn't work for IE as the event doesn't bubble so the handler is never invoked.

http://www.chigarden.com/2007/10/tutorial-making-the-ie-voodoo-doll/

liveQuery

We can't use jQuery.bind as the form is dynamically created (by facebox's clone call).

Enter <u>liveQuery</u>

This plugin adds the handler directly to the form element.

No event delegation, and it works in IE6!

Demo

liveQuery uses some <u>fancy tricks</u> (async binding etc) to keep your website performing.

