

jQuery in Drupal Part Two

DrupalCon Szeged 2008

Agenda

- Using jQuery in Drupal
- Keeping jQuery up to date in Drupal
- AJAX
- AHAH and Drag&Drop

jQuery in Drupal

- In core since Drupal 5 (version 1.0.1)
- chosen for its small file size
- modular, like Drupal itself
- has a great community, like Drupal :-)

Using jQuery in Drupal

- Important functions on the PHP side
 - drupal_add_js()
 - Add a JavaScript file, setting or inline code to the page
 - parameters: data, type, scope, defer, cache
 - Examples:
 - `drupal_add_js(drupal_get_path('module', 'mymodule') . '/myjs.js');`
 - `drupal_add_js(array('myjs'=>$mysettings), 'setting');`
 - `Drupal_add_js('var myVar = "foo";', 'inline');`

Using jQuery in Drupal

- Important functions on the PHP side
 - drupal_get_js()
 - outputs the script tags to your page
 - makes a call to drupal_add_js() to get all the javascripts that have been stored in the static \$javascript variable
 - drupal_to_js()
 - Converts a PHP variable into its JavaScript equivalent
 - Handy for returning data in your ajax call

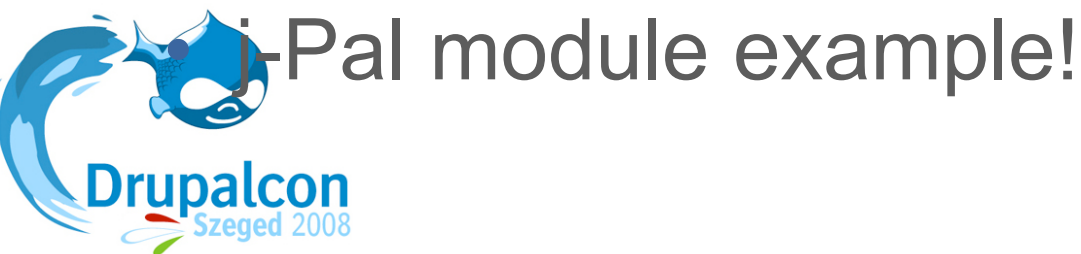
Using jQuery in Drupal

- drupal.js provides support for common js tasks in drupal
- adds the “js” class to the html element
- provides drupal specific js functions
- initialises the drupal js object:

```
var Drupal = Drupal || { 'settings': {},
  'behaviors': {}, 'themes': {}, 'locale': {} };;
```

Drupal.settings

- Drupal.settings allows you to pass information from your php code to your js code
- handy for telling JavaScript the base path, for example
- and in particular, handy for configuration settings



i-Pal module example!

Drupal.behaviors

- Any function defined as a property of Drupal.behaviors will automatically get run when the DOM is loaded

```

Drupal.behaviors.myBehavior = function (context) {
  $(' .my-class:not(.myBehavior-processed)',
context).addClass('myBehavior-
processed').each(function () {
    // Process...
  });
};

```


Drupal.behaviors

This function is called when the DOM has loaded:

```

Drupal.attachBehaviors = function(context) {
  context = context || document;
  if (Drupal.jsEnabled) {
    // Execute all of them.
    jQuery.each(Drupal.behaviors, function() {
      this(context);
    });
  }
};

```

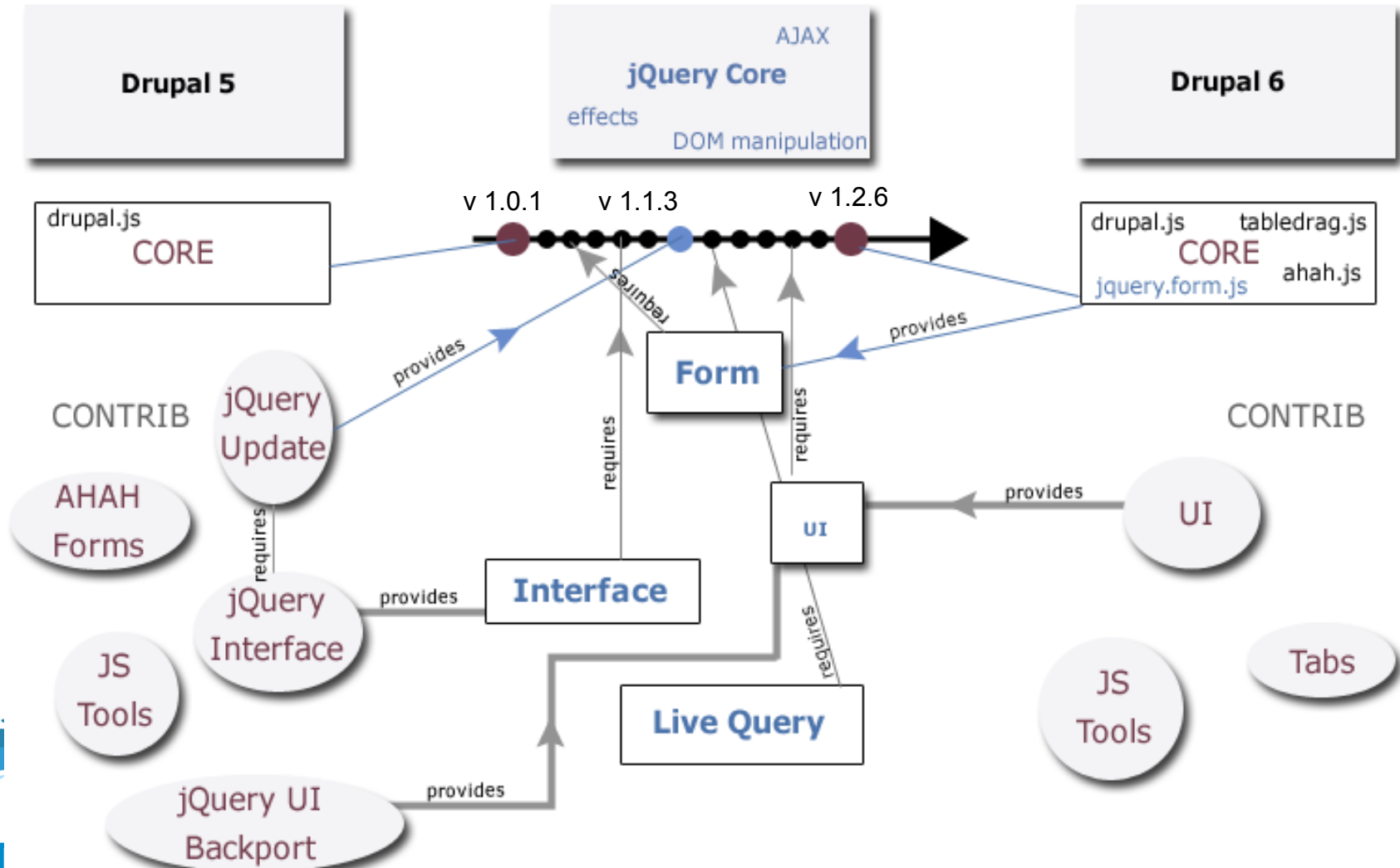
Drupal.theme

- the JavaScript counterpart to the server-side theme function
- call `Drupal.theme('myFunction', 'my_first_arg', 'my_second_arg');`
- your theme function must be a prototype object of `Drupal.theme`, e.g. `Drupal.theme.prototype.myFunction = function(args) {...}`

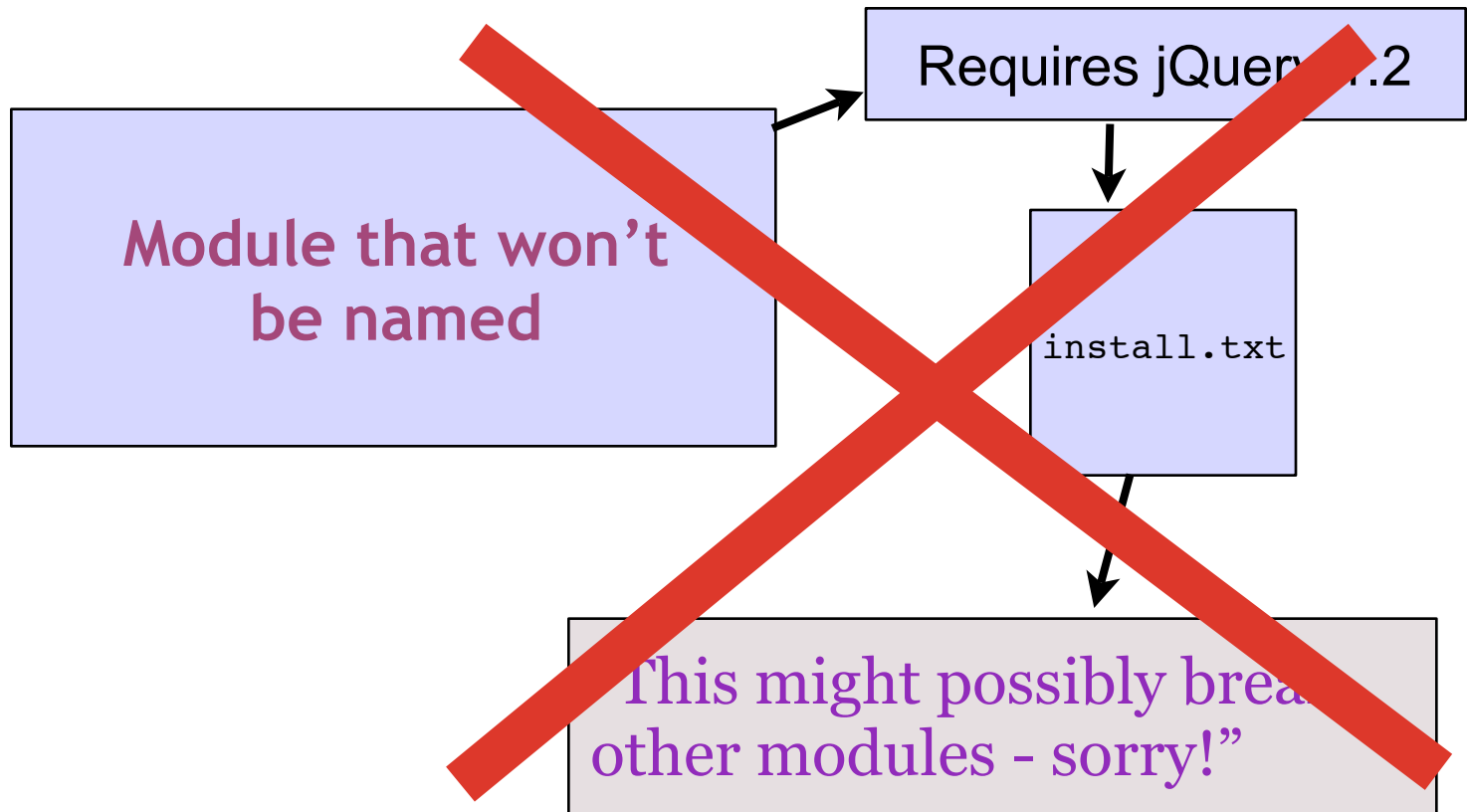
Drupal.locale

- works in conjunction with Drupal.t, the js equivalent of the server-side t() function
- holds a collection of string translations
- Drupal.t can then access the required string from Drupal.locale in order to translate what was passed into it

Overview / Timeline of jQuery in Drupal



jQuery Versions



jQuery Update Module

- originally written to enable the use of jQuery Interface in Drupal
- upgraded core jQuery to version 1.1.3
- included a compat.js file for backwards compatibility
- and a fix for collapse.js

jQuery Update Module

- jQuery development continued to blast ahead
- jQuery Update still stuck at 1.1.3 even by the time D6 came out with 1.2.3
- time for jQuery Update 2.0
- requires the replacement of 4 core js files
- BUT gets you 1.2.6 in D5
- jQuery Update for D6: no file replacement necessary