Drupal 7 and JavaScript

What / Where / How

JavaScript bundled with core

jQuery 1.4.4 jQuery UI 1.8.7

js ajax.js	23 KB
🔋 authorize.js	1 KB
autocomplete.js	8 KB
js batch.js	939 bytes
s collapse.js	3 KB
drupal.js	13 KB
js form.js	2 KB
🔋 jquery.ba-bbq.js	4 KB
jquery.cookie.js	961 bytes
jquery.form.js	10 KB
jquery.js	79 KB
jg jquery.once.js	3 KB
machine-name.js	5 KB
js progress.js	3 KB
js states.js	12 KB
js tabledrag.js	42 KB
tableheader.js	4 KB
tableselect.js	4 KB
js textarea.js	920 bytes
🝺 timezone.js	3 KB
s vertical-tabs.js	7 KB

module.info, drupal_add_js(), drupal_add_library()

```
.info file
```

- every page gets these files

```
drupal_add_js()
```

- good to use in functions that build pages

```
drupal_add_library()
```

- used with hook_library()
- good for bundling multi-file libraries together

module.info

```
name = Drupal 7 JavaScript Walkthrough description = "Gives an example different ways to use javascript in drupal." core = 7.x
```

```
; our test file
files[] = d7js.test
```

; some styles for our demo stuff stylesheets[all][] = css/d7jsmod.css

```
; some scripts for the pages scripts[] = js/everypage.js
```

; See http://drupal.org/node/542202 for more info on .info files

drupal_add_js()

- type file, inline, external, setting
- scope: header, footer
- group: JS_LIBRARY, JS_DEFAULT, JS_THEME
- weight: lighter items first, heavy items last

```
// include files from our module-
drupal_add_js(drupal_get_path('module', 'd7jsmod') . '/js/page-2.js');-

drupal_add_js(array('somevalue' => '5555555555'), 'setting');-

// do some inline scripting-
drupal_add_js('jQuery(document).ready(function () { console.log("page 2 -
drupal_add_js('jQuery(document).ready(function () { console.log("page 2 -
array('type' => 'inline', 'scope' => 'footer', 'weight' => 5)-
);-
```

```
drupal_add_library()
```

- add multiple files (js and css) in one call

```
hook_library()
```

- define your own libraries

```
hook_library_alter()
```

- hook into other libraries and alter them

drupal_add_library and hook_library

```
drupal_add_library('d7jsmod', 'library-2');
drupal_add_library('system', 'jquery.cookie');
```

 hook_library: define dependencies, reference version / site, bundle css

```
$libraries['library-1'] = array(-
   'title' => 'Library One', --
   'website' => 'http://example.com/library-1',-
   'version' => '1.2', --
   'js' => array( drupal_get_path('module', 'd7jsmod') . '/js/library-1.js' => array() ),-
   'css' => array( drupal_get_path('module', 'd7jsmod') . '/js/library-1.css' => array('type' => 'file', 'media' => 'screen') ),-
   );-
```

Easier than it used to be - however still lots of PHP

Forms in Drupal (at a glance)

- Custom Forms = Arrays
- Array items = Elements
- Elements have properties

Drupal reads arrays and does stuff

Element array's have '#ajax'

- callback: the function to call
- path: to override the core system/ajax path
- wrapper: ID element on the page to target
- effect
- speed
- event: defaults to auto-sense the type of element
- prevent: other events to prevent on this element while waiting
- method: replaceWith, before, after, append...
- progress

centralized bundles of fun

- element-centric
- attach / detach
- page load and ajax loads

```
// You could add additional behaviors here.¬
Drupal.behaviors.d7jsmodAttachDetach = {¬
  attach: function (context, settings) { console.log('attach - Drupal.behaviors.d7jsmodAttachDetach') },¬
  detach: function (context, settings) { console.log('detach - Drupal.behaviors.d7jsmodAttachDetach') }¬
};¬
```

context - limit the scope of the selectors

settings - just the Drupal.settings

```
// Store our function as a property of Drupal.behaviors.-
Drupal.behaviors.d7jsmodCheckboxs = {-
  attach: function (context, settings) {-
    console.log('attach - Drupal.behaviors.d7jsmodCheckboxs');-
   // Find all the secure links inside context that do not have our processed class.-
   $('input[type=checkbox]', context)-
     // Only process elements once.-
      .once('d7js-processed')-
     // Then stick some text into the link denoting it as secure.-
      .click( indicateChecked )-
      .each( indicateChecked )-
```

```
Drupal.attachBehaviors = function (context, settings) {
   context = context || document; |
   settings = settings || Drupal.settings; |
   // Execute all of them. |
   $.each(Drupal.behaviors, function () { |
      if ($.isFunction(this.attach)) { |
        this.attach(context, settings); |
   } |
   }); |
}; |
```

```
//Attach all behaviors.-
$(function () {-
   Drupal.attachBehaviors(document, Drupal.settings);-
});-
```

Drupal Settings

useful

Drupal Settings

Pass data from PHP to JavaScript

```
// PHP¬
drupal_add_js(array('somevalue' => '5555555555'), 'setting');¬
// JavaScript¬
console.log('Drupal.settings.somevalue', Drupal.settings.somevalue);
```

Drupal Settings

Drupal: globally name-spaced

Core Settings:

- Drupal.settings.basePath
- Drupal.settings.ajax

Drupal Aggregation

Built in optimization

Drupal Aggregation

Combines files

- site-wide files (.info) get aggregated
- each page gets it's own aggregation file
- -- drupal_add_js / drupal_add_library
- no compression, just combines the files