

Table of Contents

JQuery Coding Standards.....	1
Shorthands.....	1
Wrap \$.....	1
Global variables.....	1
Propagating perl settings to javascript.....	1
The foswiki object.....	1
Avoid Internet Explorer errors.....	2
Metadata.....	2
LiveQuery.....	2

JQuery Coding Standards

Follow Drupal's JavaScript coding standards

Shorthands

Use the jQuery shorthand `$` where possible:

```
$(function() { ... });
```

instead of

```
$(document).ready(function() { ... });
```

Wrap `$`

If you want to use jQuery's `$` variable, wrap your code like this:

```
(function($) {  
    // code using $ variable  
})(jQuery);
```

Global variables

If you want to use global variables within the scope of your code, wrap your code like this:

```
(function() {  
    var foo = 'bar'; // yay, it's almost like I'm global  
})();
```

If you want to use global variables in the global scope, put the variable in the `foswiki` namespace:

```
foswiki.foo = 'bar';
```

Mind the predefined global variables. See next section.

Propagating perl settings to javascript

The `jquery.foswiki` plugin will initialize the global `foswiki` object with a set of variables that are created by reading `meta` tags in the HTML header. These have the format

```
<meta name="foswiki.foo.bar.baz" content="string/boolean/object/function" />
```

The `foswiki` object

This will create the appropriate sub-namespaces and initialize the named property with the value in the `content` attribute.

There is a set of predefined variables that can be used in your javascript code via the `foswiki` namespace:

Name	Content
foswiki.web	%WEB%
foswiki.topic	%TOPIC%"
foswiki.scriptUrl	%SCRIPTURL%
foswiki.scriptUrlPath	%SCRIPTURLPATH%
foswiki.pubUrl	%PUBURL%
foswiki.pubUrlPath	%PUBURLPATH%
foswiki.systemWebName	%SYSTEMWEB%
foswiki.usersWebName	%USERSWEB%
foswiki.wikiName	%WIKINAME%
foswiki.loginName	%USERNAME%
foswiki.wikiUserName	%WIKIUSERNAME%
foswiki.serverTime	%SERVERTIME%
foswiki.ImagePluginEnabled	%IF{"context ImagePluginEnabled" then="true" else="false"}%
foswiki.MathModePluginEnabled	%IF{"context MathModePluginEnabled" then="true" else="false"}%

Avoid Internet Explorer errors

- Use an object if you need an associative array, not an array. [source]
- Declare all local variables with `var` before they are used.
- Remove trailing commas from array and object definitions, i.e.:

```
var object = { foo: 'bar' }
```

not

```
var object = { foo: 'bar', }
```

Metadata

Use JQueryMetadata to integrate jQuery plugins into Foswiki.

LiveQuery

Use JQueryLiveQuery to initialize your plugin for all html elements of a page. Otherwise content that is loaded asynchronously using ajax won't be initialized. LiveQuery will take care of that automatically.

Instead of

```
$(".jqPluginName").each(function() {
  // initializer
});
```

use

```
$(".jqPluginName").livequery(function() {
  // initializer
});
```

See JQueryMetadata for a more thorough example of using metadata and livequery

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- Log In

- **Toolbox**
 - Users
 - Groups
 - Index
 - Search
 - Changes
 - Notifications
 - RSS Feed
 - Statistics
 - Preferences

- **User Reference**
 - BeginnersStartHere
 - TextFormattingRules
 - Macros
 - FormattedSearch
 - QuerySearch
 - DocumentGraphics
 - SkinBrowser
 - InstalledPlugins

- **Admin Maintenance**
 - Reference Manual
 - AdminToolsCategory
 - InterWikis
 - ManagingWebs
 - SiteTools
 - DefaultPreferences
 - WebPreferences

- **Categories**
 - Admin Documentation
 - Admin Tools
 - Developer Doc
 - User Documentation
 - User Tools

- **Webs**
 - Public
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