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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 useing metadata and livequery

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