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

## 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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This topic: System > JQueryCodingStandards

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