## **Prototype Based State Manager**

Posted At: April 6, 2008 5:37 PM | Posted By: Jon Hartmann Related Categories: Javascript

I've known that you could use anchor tags as a way to manage the state of a Javascript application for a while now, but I've never really messed with how that is actually setup. I got bored on Friday, and this is what I came up with.

I've no idea if this is the way that pros at JS would design this kind of functionality, but I think its useful enough.

On second thought, this would probably be best done as a singleton, since having multiple instances of the StateManager could cause conflict. Adding a PeriodicExecutor to monitor the state for changes might also be an option, as well as adding a method to allow the registering of more then one listener function.

This solution requires the use of the **Prototype Library**, version 1.6.

```
<InvalidTag>
var StateManager = Class.create({
   initialize: function (config) {
        this. config = config ? config : {};
            this. config.defaultState = this. config.defaultState ? this. config.defaultState :
'default';
        this._state = document.URL.split('#')[1] ? document.URL.split('#')[1] :
this. config.defaultState;
        if ( this. config.onStateChange ) {
            this. config.onStateChange(this. state);
    },
   setState: function (state) {
        if ( this. state != state ) {
            this. state = state;
            parent.location = document.URL.split('#')[0] + '#' + this. state;
            if ( this._config.onStateChange ) {
                this. config.onStateChange(this. state);
        }
   getState: function () {
        if ( this. state == undefined ) {
            return this. config.defaultState;
        } else {
            return this. state;
});
</script>
```

Using the code is simple, just instantiate a new StateManager and give it a default event handler:

```
function handleChange (state) {
   alert(state);
}
```

```
var StateControl = new StateManager({
   onStateChange : handleChange
});
```

If you need to change the event, just link it to a button or event:

```
<button onClick="StateController.setState('newState');">New State
```