

# Prototype Based State Manager

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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</button>
```