

jQuery Plugins

- The jQuery ecosystem includes thousands of extensions called plugins, many of them free
  - http://plugins.jquery.com/
  - http://www.jqueryplugins.com/
  - http://www.templatelite.com/100-popular-jquery-plugins/
  - http://www.instantshift.com/2012/03/26/80-useful-jquery-plugins-to-enrichyour-sites-user-experience/
- You can author plugins of your own

NOW



1

2

## Retina Plugin

• Popular plugin that adds "retina effect" to images



http://tutorialzine.com/2010/06/apple-like-retina-effect-jquery-css/

NOW

3

## Authoring jQuery Plugins

- jQuery object is extensible
- Most jQuery plugins are scripts that add methods to the jQuery object via \$.fn
  - \$.fn == jQuery.prototype
- Enclose plugin code in a self-executing anonymous function
  - Makes plugin code self-contained
  - Aliases \$ to the jQuery function inside the plugin
  - Avoids polluting the global JavaScript namespace

http://docs.jquery.com/Plugins/Authoring

NOW

4



## Structuring a jQuery Plugin

(function (\$) {
 \$.fn.pluginname = function () { // TODO: Write plugin code here })(jQuery);

NOW

Plugin Authoring

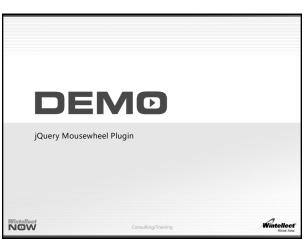
- When plugin is invoked, this refers to jQuery object upon which it was invoked
- Use .each() to iterate over elements in wrapped set, invoking plugin code on each element
- return this to support chainability
  - Exception: Plugins that return scalar values

NOW

5

6

Plugins and Events
 jQuery plugins can register event handlers
 Always scope events using custom namespaces to prevent collisions
 // Register a handler for click events fired by <img> elements
// and place them in the "wintellect" namespace
\$("img").bind("click.wintellect", function(e) {
 alert("click!");
 });



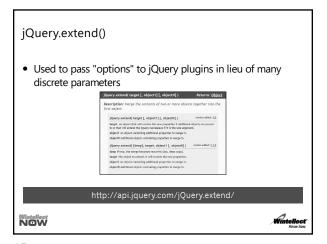
11 12

Invoking the Plugin

// Highlight all DIVs in the document
\$("div").highlight("green");

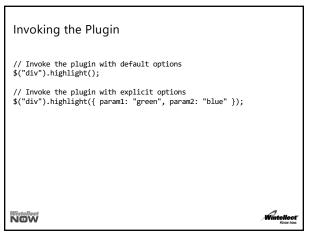
Wintellock
Rose look

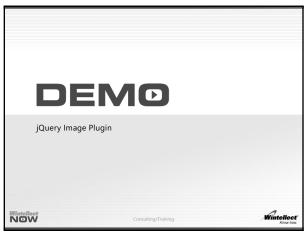
13 14



16

15





17 18