

JavaScript Plugins

Pre-written Code for some other pre-written code

How to use jQuery

0. Have an HTML document

1. Download from www.jquery.com

- Create a file (`jquery.js`)

2. In your HTML...

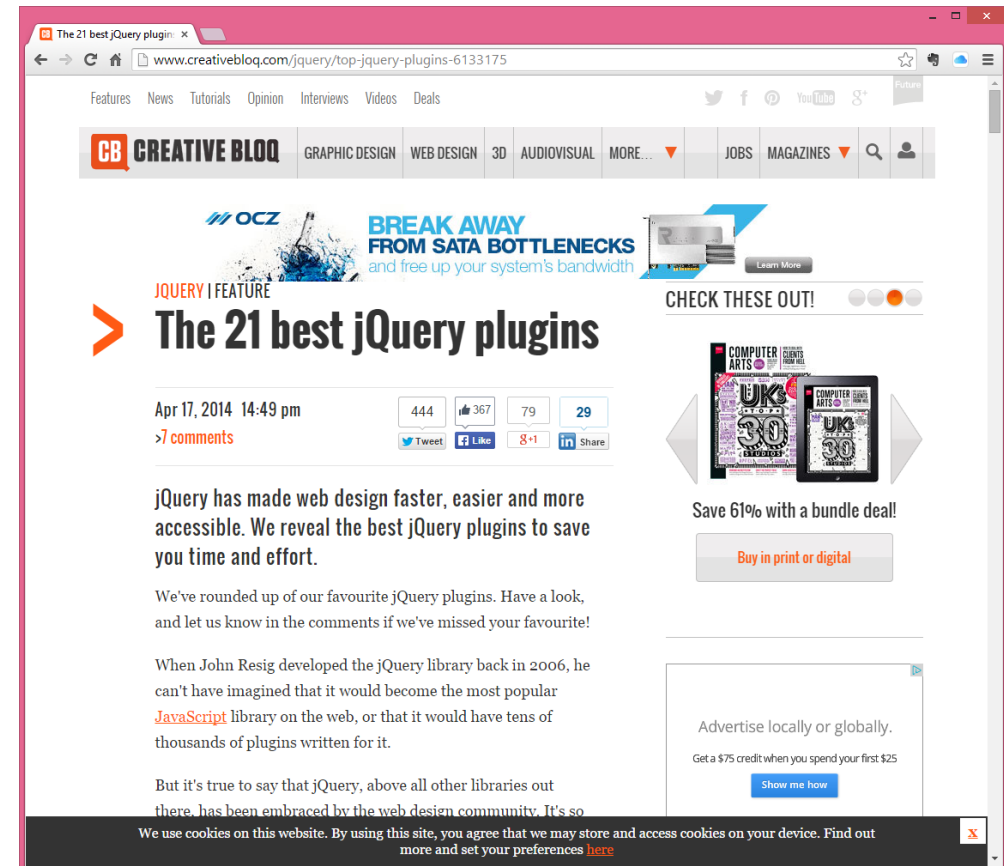
```
<script src="jquery.js"></script>
```

3. Learn! (documentation: api.jquery.com)

4. Write JavaScript code to use the functions and methods in the library

A Library another Library: a Plugin

- “Plugin” = an industry term
- The jQuery ecosystem
- Google it! It's been done
- Quality control
- jQuery plugin Programmers
 - Private use, or released into the wild
 - “Buyer” beware



Plugin parts

- Author of the plugin decides
- 2 - 5 parts (depending on the plugin)
- “Open source”
- 5 Parts
 1. Library script
 2. Plugin script
 - 3. Styles file (CSS from the plugin website)
 - 4. Initialization and options script (instructions from the plugin website)
 - 5. Content, arranged in a specific way (instructions from the plugin website)

Example using: “jQuery UI” – a plugin

- “jQuery UI” - widget and interaction library
- Quality control - *very* good

Note: “jQuery UI” is *not* jQuery



1. Install the Library

- jQuery website: **www.jquery.com**
- You can use the same jQuery library to power all jQuery behaviors
 - Important: only load this library once on the webpage, even if you are installing multiple plugins
- Download and insert:
`<script src="js/jquery.js"></script>`
- Insert the jQuery script near the bottom of the HTML document, above the closing `</body>` tag.
 - Remember: the jQuery script must be inserted above any other JavaScript that uses it

2. Install the Plugin

- jQuery UI website: **www.jqueryui.com**
- You can use the same plugin to power all jQuery UI behaviors
 - Important: only load this library once on the webpage, even if you are planning to use multiple "widgets"
- Download and insert:
`<script src="js/jquery-ui.js"></script>`
- Insert the jQuery UI script near the bottom of the HTML document, *below* the jQuery script

3. Install the Plugin's Styles

(depending if it was written that way)

- jQuery UI website: **www.jqueryui.com**
 - Find the generic styles file (CSS) or a customized theme and download it
 - Note: You can use the same CSS to style all jQuery UI widgets

- Download and insert

```
<link rel="stylesheet" href="css/jquery-ui.css"></script>
```

...and download its associated images folder that goes in the CSS folder

- Insert the jQuery CSS link in the <head> of your HTML document

4a. Initialize the Script

- From the jQuery UI website, look-up what you need to use to initialize the particular widget you want to use.
- Inert the initialization string(s)

Example...

```
<script>  
    $( "#accordion" ).accordion();  
</script>
```

...below the jQuery and jQuery UI scripts

4b. Initialize the Script with Options

- Options go in an "array"

```
{  
    property: value,  
    property: value  
}
```

- From the jQuery UI website, look-up the customization options you want to use for each widget.
- Insert the customization options into the initialization strings, between curly braces, inside the parenthesis like this...

```
<script>  
$( "#accordion" ).accordion({  
    collapsible: true,  
    heightStyle: "content"  
});  
</script>
```

- Notice that commas go after each option, but not after the last option

5. Arrange HTML Content in a Specific Way

- From the jQuery UI website, look-up the way content must be arranged in your HTML for each widget to work.

Example (in HTML):

```
<div id="accordion">  
  
  <h2>First header</h2>  
  <div>First content panel</div>  
  
  <h2>Second header</h2>  
  <div>Second content panel</div>  
  
</div>
```