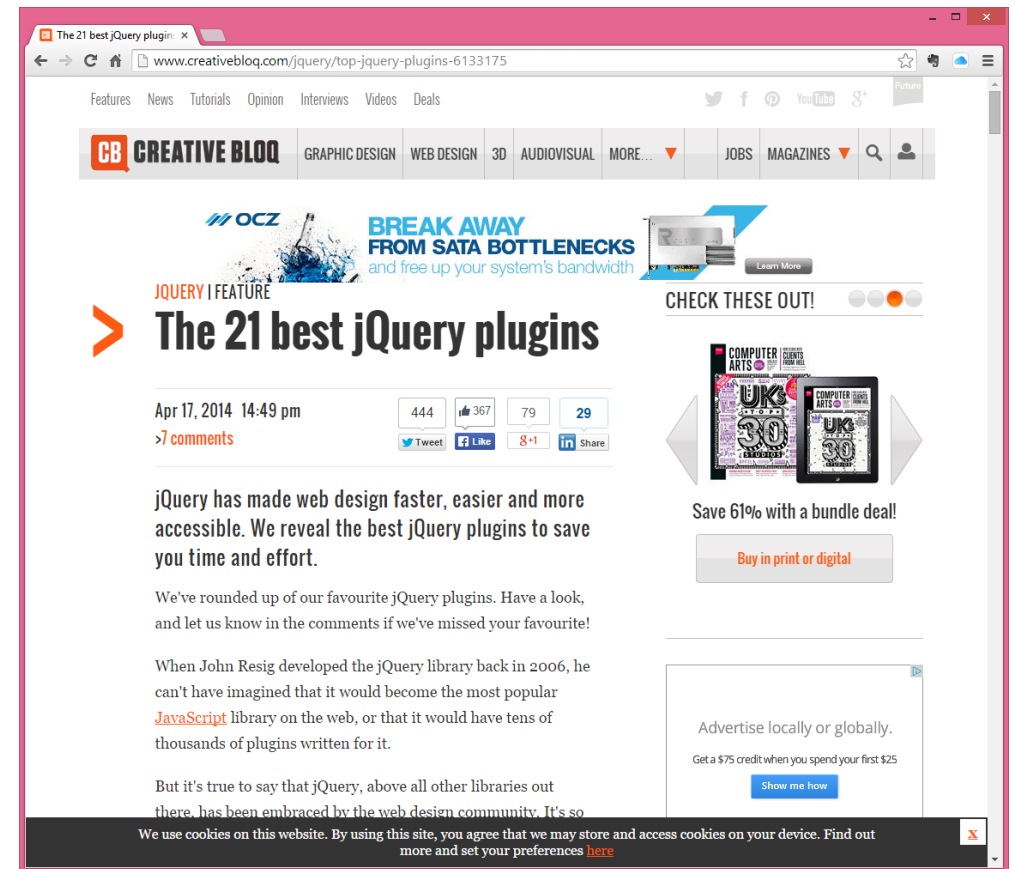


# JavaScript Plugins

Libraries for Libraries

# Finding & Evaluating Plugins

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

# Examples using: “jQuery UI” – a plugin

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

Note: “jQuery UI” is *not* jQuery



# 1. Install jQuery

- 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>`  
  
or point to a CDN:  
`<script src="http://code.jquery.com/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)

- 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>`  
  
or point to a CDN:  
`<script src="http://code.jquery.com/ui/1.11.4/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 CSS (jQuery UI CSS)

- jQuery UI website: **www.jqueryui.com**
  - Find the generic 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

*or* point to a CDN (if it exists):

`<link rel="stylesheet" href="http://code.jquery.com/ui/1.11.4/themes/smoothness/jquery-ui.css">`

- 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>
```