

Adding Plugins

1399 Web Development

TODAY

Hover.css

<http://ianlunn.github.io/Hover/>

Backstretch.js

<http://srobbin.com/jquery-plugins/backstretch/>

blueimp-gallery.js

<https://blueimp.github.io/Gallery/>

Adding plugins

Core concept - **add** resources, **connect** those resources to your code, then **activate** resources as needed.

- **Always add a plugin to a blank site or a CodePen (or similar) set up first to try it out.** If you run into issues, or if the plugin just doesn't work as you expected, you don't have to go back and untangle that code from your own in a larger project.
- **Evaluate a plugin as you would any other web resource.** Be skeptical. If the directions don't make sense, or there isn't a good example, or it hasn't been updated in years.. It might still be ok, but test, test, test.
- **Careful of the plugin that over promises.** The one that looks great in the demo, but when you try it, it turns out the demo contains extra styling not mentioned in the tutorial / documentation. [Co-drops tutorials](#), for example, are wonderful, but often 'co-dependent' and it can take time to make it look as desired.

CSS-only Plugin: hover.css

1. Plugin: <http://ianlunn.github.io/Hover/>
 - a. Open the Tutorial to follow along - <http://ianlunn.co.uk/articles/hover-css-tutorial-introduction/>
2. Add the CSS to your “css” folder in your project
 - a. Add both the standard and minimized versions
 - b. Start with the non-minified version in case you need to see the code.
 - c. When you're done adding in the effect you want, switch to the min version for better performance
3. Add a link to the CSS in your **<head>**
 - a. Make sure you adjust the pathname to the CSS for your specific project
4. Add the HTML needed (in this case a button)
 - a. *Example:* **<button type="button" class="btn">BUTTON</button>**
5. Apply a class selected from the CSS Plugin to your HTML
 - a. *Example:* **<button type="button" class="btn hvr-fade">BUTTON</button>**
 - b. Adjust styles as needed

TASK: Add hover.css to two buttons

- Add two buttons called “Before” and “After”
 - Give them IDs of “**before**” and “**after**”
- Choose your own base colors / styles:
 - <http://www.flatuicolorpicker.com/>
- Give your buttons a hover effect selected from *hover.css*

Plugins: Day 1



JS-only Plugin: Backstretch.js

1. Add the Plugin JS to your “js” folder in your project.
 - a. If this folder doesn't exist, create it.
2. Add the HTML: Create a <div> (or tag of choice), give it an ID.
 - a. If the <div> has no content or not the correct height, you will need to adjust in the CSS.
3. Use backstretch.js to link your buttons to your div.
 - a. *Example:* **<script src="assets/js/jquery.backstretch.min.js"></script>**
 - b. Tip: Add UNDERNEATH your js for Bootstrap
 - c. Make sure you adjust the pathname.
4. Initialize / Set Options for the JS Plugin
 - a. This is where we will link in the images for backstretch.js
 - b. Put this code directly underneath your link to the JS source (the <script> tag we just added)

JS + CSS + HTML + JS activate

1. Place resources in your folders (JS, CSS, images, etc..)
2. Hook in CSS (head/link), JS (end of body/script), HTML
- 3. Activate the JS**

Activating the JS

Often CSS/JS plugins will depend on a JS plugin called **jQuery** (if you see “\$” anything, good chance it’s jQuery).

What you need to remember going in:

- When using Bootstrap, JQUERY IS INCLUDED.
- We will need TWO `<script>` tags total:
 - one to **connect** the resource, and
 - one to initialize or **activate** the JS part of the plugin.

index.html

...

```
<script src="https://ajax.googleapis.com/ajax/libs/jquery/3.1.1/jquery.min.js"
integrity="sha384-3ceskX3iaEnlogmQchP8opvBy3Mi7Ce34nWjpBlwVTHfGYWQS9jwHDVR
npKKHJg7" crossorigin="anonymous"></script>
```

```
<script src="https://cdnjs.cloudflare.com/ajax/libs/tether/1.3.7/js/tether.min.js"
integrity="sha384-XTs3FgkjiBgo8qjEjBk0tGmf3wPrWtA6coPfQDfFEY8AnYJwjalXCiosYRBI
BZX8" crossorigin="anonymous"></script>
```

```
<script
src="https://maxcdn.bootstrapcdn.com/bootstrap/4.0.0-alpha.5/js/bootstrap.min.js"
integrity="sha384-BLil7JTZm+JWlgKa0M0kGRpJbF2J8q+qreVrKBC47e3K6BW78kGLrCke
RX6l9RoK" crossorigin="anonymous"></script>
```

SCRIPTS FOR JS PLUGINS GO HERE

```
</body>
</html>
```

...

<!-- jQuery, Bootstrap, other core JS -->

// Easiest - Simply linking our resources together, as when using Backstretch.js

// #box = an example div in our HTML

// backstretch() = “apply backstretch functionality to #box using this resource in my ()”

<script src="assets/js/backstretch.min.js"></script>

<script>

\$('#box').backstretch('assets/images/ocean.jpg');

</script>

</body>

</html>

To PreLoad Images When Using Backstretch

```
<script>  
    // Preload the images  
    var images = [  
        "images/my-image-1.jpg"  
        , "images/my-image-2.jpg"  
        , "images/my-image-3.jpg"  
    ];  
  
    // A little script for preloading all of the images  
    // It's not necessary, but generally a good idea  
    $(images).each(function(){  
        $("<img/>")[0].src = this;  
    });  
  
    $('#box').backstretch('images/ocean.jpg');  
</script>
```

TASK: Add background image to a block element

1. Add the images for today on Canvas to your images folder
1. In the CSS, give #aleppo (the <div>):
 - a. border: 1px solid black;
 - b. height: 511px;
 - c. width: 700px;
2. In the HTML, let's also attribute the source:
 - a. <http://petapixel.com/2016/08/02/26-photos-show-war-changed-syria/>
 - b. Add this as a link within a <small> tag underneath the <div>
3. Use backstretch.js to put "Aleppo-before.png" into <div id="aleppo"> (*a block level element*)
4. Use backstretch.js to link your buttons to your div (*as click events*)
 - a. Link "Before" button to "Aleppo-before.jpg"
 - b. Link "After" button to "Aleppo-after.jpg"

TASK: Add a lightbox to a gallery of images

1. Follow the directions for to create a gallery:
<https://blueimp.github.io/Gallery/>
2. Use placeholder images from <https://unsplash.it/>
3. Place the images into rows/columns, and use **class=img-fluid** on
4. If you get this, try adding a **carousel** (ok to reuse links/images for this)



Image 1



Image 2



Image 3

Other Lightbox Plugins

Specifically for Bootstrap4:

<http://ashleydw.github.io/lightbox/>

Responsive:

<http://dimsemenov.com/plugins/magnific-popup/>

Lightweight:

<http://noelboss.github.io/featherlight/>

Easy, though a little out of date:

<http://brutaldesign.github.io/swipebox/#try>

NOTE: requires the version of jQuery included in download to be added

Sometimes the code will assume you know how to kickstart the JavaScript.

If that happens, use this next section as a reference.

The following is like saying, “**once the page loads, do this JavaScript**”.

Our lightbox example today DOES NOT require this.

Regardless, it is still useful to see how it could work as all plugins are written just a little differently, and not always by folks who are the best at explaining things.

*Note: The last slide showing how to add options does hold true in our example
-- notice the part about the comma in particular.*

To Activate a JS Plugin:

...

```
<script>
```

```
    // jQuery Method
```

```
    $( document ).ready(function() {
```

CODE TO ACTIVATE SPECIFIC PLUGIN GOES HERE

```
    });
```

```
</script>
```

...

To Activate a JS Plugin (jQuery Shortcut):

...

```
<script>
```

```
    // jQuery Shortcut Method
```

```
    $( function() {
```

CODE TO ACTIVATE SPECIFIC PLUGIN GOES HERE

```
    } );
```

```
</script>
```

...

Swipebox Example: *// just another JS plugin*

...

```
<script>
```

```
    // jQuery Shortcut Method
```

```
    $( function() {
```

```
        // Example: Activating Plugin
```

```
        $( '.swipebox' ).swipebox();
```

```
    } );
```

```
</script>
```

...

Swipebox Example:

...

```
<script>
```

```
    // jQuery Shortcut Method
```

```
    $( function() {
```

```
        // Example: Activating Plugin and Setting Options
```

```
        $( '.swipebox' ).swipebox({
```

```
            PUT OPTIONS HERE
```

```
        });
```

```
    } );
```

```
</script>
```

...

Swipebox Example:

...

```
<script>
```

```
    // jQuery Shortcut Method
```

```
    $( function() {
```

```
        // Example: Activating Plugin and Setting Options
```

```
        $( '.swipebox' ).swipebox({
```

```
            useSVG: true,
```

```
            loopAtEnd: false    // notice NO COMMA at the end of list of options
```

```
        });
```

```
    } );
```

```
</script>
```

...

TASK: Add a vertical timeline

<http://codepen.io/armthethinker/pen/nEtke/>

Make sure to set the CodePen to “Compiled HTML” and “Compiled CSS”

2014 Here's where the main thing I did goes. It's very important, so it's big.

Some additional context or things I did. It is small because it is less important

2013 More big things

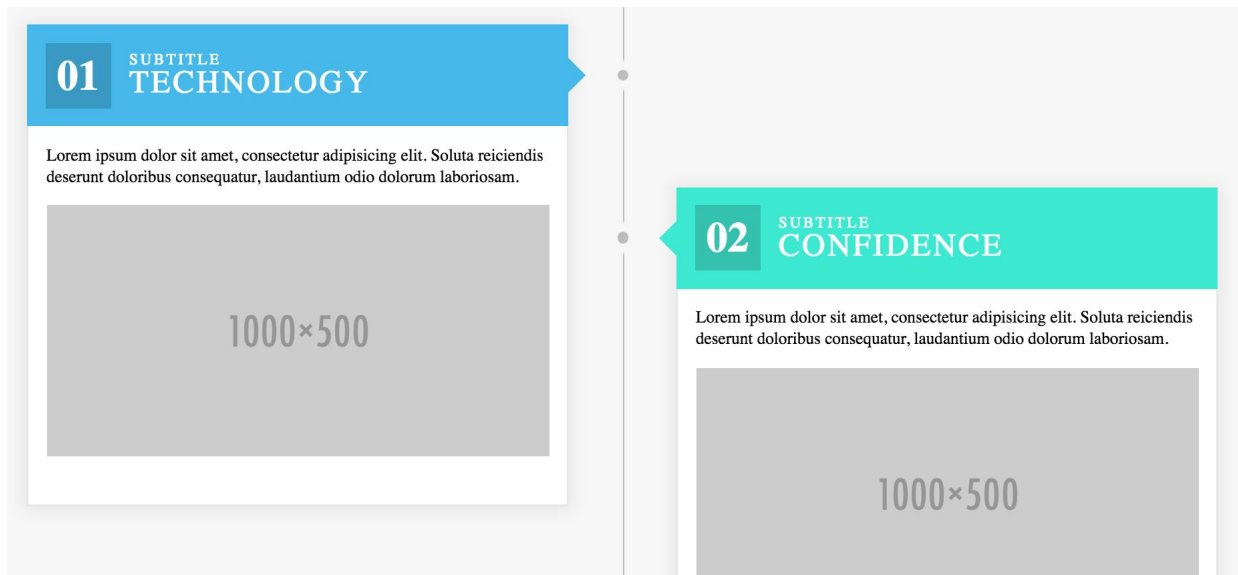
- Sometimes lists
- are important too
- Lists with **Links**.

Some additional context or things I did. It is small because it is less important

Other Timeline Plugins

46 Free Timelines (recent)

<http://freefrontend.com/css-timelines/>



CHALLENGE

In CodePen set up a Bootstrap environment.
Implement this lightbox plugin to test it out:

<http://ashleydw.github.io/lightbox/>

- One image with a title and caption
- Gallery (in a grid) with at least three images

Turn in a link to your CodePen for participation points today.