

# eleventy-plugin-bundle

Little bundles of code, little bundles of joy.

Create minimal per-page or app-level bundles of CSS, JavaScript, or HTML to be included in your Eleventy project.

Makes it easy to implement Critical CSS, in-use-only CSS/JS bundles, SVG icon libraries, or secondary HTML content to load via XHR.

## Why?

This project is a minimum-viable-bundler and asset pipeline in Eleventy. It does not perform any transpilation or code manipulation (by default). The code you put in is the code you get out (with configurable `transforms` if you'd like to modify the code).

For more larger, more complex use cases you may want to use a more full featured bundler like Vite, Parcel, Webpack, rollup, esbuild, or others.

But do note that a full-featured bundler has a significant build performance cost, so take care to weigh the cost of using that style of bundler against whether or not this plugin has sufficient functionality for your use case—especially as the platform

};

```
eleventyConfig.addBundlue("css");
}

export default function(eleventyConfig)
// .eleventy.js
```

To create a bundle type, use eleventyConfig.addBundlue in your Eleventy configuration file (default .eleventy.js):

By default, Bundle Plugin v2.0 does not include any default bundles. You must add these yourself via eleventyConfig.addBundlue. One notable exception happens when using the WebC Eleventy Plugin, which adds CSS, and HTML bundles for you.

JS, and HTML bundles for you.

To create a bundle type, use eleventyConfig.addBundlue in your Eleventy configuration file (default .eleventy.js):

## Usage

No installation necessary. Starting with Eleventy v3.0.0 - alpha.10 and newer, this plugin is now bundled with Eleventy.

## Installation

modules everywhere).

matures and we see diminishing returns on code translation (ES

This does two things:

1. Creates a new `css` shortcode for adding arbitrary code to this bundle
2. Adds "`css`" as an eligible type argument to the `getBundle` and `getBundleFileUrl` shortcodes.

## Full options list

```
export default function(eleventyConfig)
{
  eleventyConfig.addBundle("css", {
    // (Optional) Folder (relative
    // to output directory) files will
    // write to
    toFileDirectory: "bundle",

    // (Optional) File extension
    // used for bundle file output,
    // defaults to bundle name
    outputFileExtension: "css",

    // (Optional) Name of shortcode
    // for use in templates, defaults
    // to bundle name
    shortcodeName: "css",
    // shortcodeName: false, // disable this feature.

    // (Optional) Modify bundle
    // content
    transforms: [],
  })
}
```

be useful to you, please file an issue!

Bundles do not support nesting or recursion (yet?). If this will

## Limits

## Advanced

```
const postcss = require("postcss");
const postcssNested = require("postcss-nested");
const eleventyConfig = require("eleventyConfig");
const transforms = {
  "eleventyConfig": addBundlable("css"),
  "async function(content) {
    // this.type returns the
    // bundle name.
    // Same as Eleventy
    // transforms,
    // this.page is
    // available here.
    let result = await
      postcss([postcssNested]).process(
        { from: this.page.inputPath, to
          { postcssNested: result.css;
            return result;
          }
        }
      );
    }
  }
};
```

Elevenity-base-blog project.

Here's a real-world commit showing this in use on the

- `getBundlE` to retrieve unbundled code as a string.
  - `getBundlEFileURL` to create a bundle file on disk and retrieve the URL to that file.

The following Universal Shortcodes (available in `ijk`, `liquid`, `hs`, `lty`'s, and `mbc`) are provided by this

## Universal Shortcodes

Read more about [hotlist](#) and duplicate bundle hoisting.

```
// (Optional) If two identical
// code blocks exist in non-default
// buckets, they'll be hoisted to
// the first bucket in common.
// hoist: true,
// (Optional) In lltiy.js
// template, having a named export
// of 'bundle' will populate your
// bundles.
bundleExportKey: "bundle",
// bundleExportKey: false,
// disable this feature.
{};
```

```
<style>/* This is bundled. */</style>
<style webc:keep>/* Do not bundle me—
    leave as is */</style>
```

To add JS to a page bundle in WebC, you would use a `<script>` element in a WebC page or component:

```
<script>/* This is bundled. */</script>
<script webc:keep>/* Do not bundle me—
    leave as is */</script>
```

- Existing calls via WebC helpers `getCss` or `getJs` (e.g. `<style @raw="getCss(page.url)">`) have been wired up to `getBundle` (for "css" and "js" respectively) automatically.
- For consistency, you may prefer using the bundle plugin method names everywhere: `<style @raw="getBundle('css')">` and `<script @raw="getBundle('js')">` both work fine.
- Outside of WebC, the Universal Filters `webcGetCss` and `webcGetJs` were removed in Eleventy v3.0.0-alpha.10 in favor of the `getBundle` Universal Shortcode (and respectively).

## Modify the bundle output

You can wire up your own async-friendly callbacks to transform the bundle output too. Here's a quick example of [postcss integration](#).

## Example: Add bundle code in a Markdown file in Eleventy

```
# My Blog Post
```

```
This is some content, I am writing
markup.
```

```
em { font-style: italic; }
```

```
## More Markdown
```

```
strong { font-weight: bold; }
```

Renders to:

```
<h1>My Blog Post</h1>
```

```
<p>This is some content, I am writing
markup.</p>
```

```
<h2>More Markdown</h2>
```

Note that the bundled code is excluded!

*There are a few [more examples below!](#)*

element in a WebC page or component:  
 To add CSS to a bundle in WebC, you would use a <style>  
 bundle plugin under the hood.  
 WebC plugin. Specifically, **WebC Bundler Mode** now uses the  
 (check at [issue #48](#)) this plugin is used by default in the Eleveny  
 Starting with `0.11.0`/eventually-plugin-webc@0.9.0

## Use with WebC

Now the compiled Sass is available in your default bundle and  
 will show up in `getBundle` and `getBundleFileURL`.

```
h1 { .test { color: red; } }
```

This example assumes you have added the **Render plugin** and  
 the `CSS custom template type` to your Eleveny configuration  
 file.  
 Writes the bundle content to a content-hashed file location in  
 your output directory and returns the URL to the file for use like  
 this:

```
<link rel="stylesheet" href="">
```

## Bundle Sass with the Render Plugin

```
<link href="https://  

  v1.opengraphh.11ty.dev"  

  rel="preconnect" crossorigin="true">
```

## Write a bundle to a file

```
<!--  

  You can add more code to the bundle  

  after calling  

  getBundle and it will be included.  

-->  

* { color: orange; }
```

```
<style></style>  

<!-- USE this *anywhere*: a layout file,  

content template, etc -->
```

And now you can use `icon-close` in as many SVG instances as you'd like (without repeating the hefty SVG content).

```
<svg><use xlink:href="#icon-close"></use></svg>
<svg><use xlink:href="#icon-close"></use></svg>
<svg><use xlink:href="#icon-close"></use></svg>
<svg><use xlink:href="#icon-close"></use></svg>
```

### React Helmet-style <head> additions

```
// .eleventy.js
export default function(eleventyConfig)
{
  eleventyConfig.addBundle("html");
}
```

This might exist in an Eleventy layout file:

```
<head>

</head>
```

And then in your content you might want to page-specific preconnect:

### Asset bucketing

```
<!-- This goes into a `defer` bucket
     (the bucket can be any string
      value) -->
em { font-style: italic; }

<!-- Pass the arbitrary `defer` bucket
     name as an additional argument
     -->
<style></style>
<link rel="stylesheet" href="">
```

A default bucket is implied:

```
<!-- These two statements are the same
     -->
em { font-style: italic; }
em { font-style: italic; }

<!-- These two are the same too -->
<style></style>
<style></style>
```

### Examples

#### Critical CSS

```
// .eleventy.js
export default function(eleventyConfig)
{
```

```

<g id="icon-close"><path d=".. />/g>

      add icons to the set -->
<!-- And anywhere on your page you can

      </svg>
</defs></defs>
      absolute;">
hidden="true" style="position:
<svg width="0" height="0" aria-
      >;
      > {
eleventyConfig.addBundle("svg");
      }
export default function(eleventyConfig)
// .eleventy.js
Here an svg is bundle is created.

```

## SVG Icon Library

- Check out the [demo of Critical CSS Using Eleventy Edge](#) for a repeat view optimization without JavaScript.
  - You may want to improve the above code with [fetcharity](#) when browser support improves.
- Related:**

```

<!-- ... -->
</body>

```

```

/* Load me later */
string value) -->
bucket (the bucket can be any
-- This goes into a 'defer'
/* Intline in the head, great with
   bucket -->
<!-- This goes into a 'default'
   body>
</head>
</noscript>
<link rel="stylesheet" href="">
<noscript>
onload="this.media='all'">
media="print"
rel="stylesheet" href="">
<!-- Deferred non-critical styles --
<style></style>
<!-- Intlined critical styles -->
<head>
<!-- ... -->
Note that some HTML boilerplate has been omitted from the
bucket and a defer bucket, loaded asynchronously.
Use asset bucketing to divide CSS between the default
sample below)

```

```

eleventyConfig.addBundles("css");
{ :
      & Load me later */
string value) -->
bucket (the bucket can be any
-- This goes into a 'defer'
/* Intline in the head, great with
   bucket -->
<!-- This goes into a 'default'
   body>
</head>
</noscript>
<link rel="stylesheet" href="">
<noscript>
onload="this.media='all'">
media="print"
rel="stylesheet" href="">
<!-- Deferred non-critical styles --
<style></style>
<!-- Intlined critical styles -->
<head>
<!-- ... -->

```