

Minifying and Filtering



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Optimizing Files in the Build Pipeline



Filter the assets and minify them

Removes white space and comments

Mangles code

Optimize and reduce files sizes

Restore filters

CSSO

```
$ npm install gulp-csso --save-dev
```

Learn more about CSSO here
<https://bem.info/tools/optimizers/csso/>

CSSO (CSS Optimizer)

Removes whitespace, comments, trailing semicolons, colors, 0, and more

Transformations

Structural optimization

Uglify

```
$ npm install gulp-uglify --save-dev
```

Uglify

Minifies JavaScript

Removes whitespace and comments

Mangles JavaScript (optional)

Mangling your JavaScript can break Angular's Dependency Injection (DI).

Good news is that it's easy to protect your code

Code

```
angular
  .module('app.dashboard')
  .controller('Dashboard', Dashboard);

function Dashboard($state, dataservice, logger) {
```

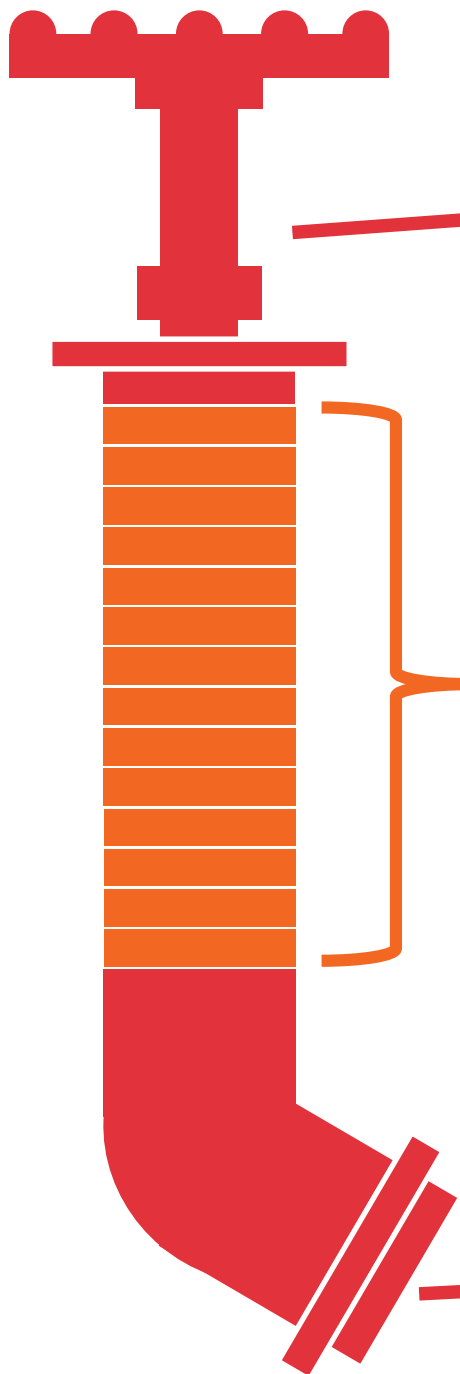
Mangled

```
angular
  .module('app.dashboard')
  .controller('Dashboard', u);

function u(d, e, f) {
```

Mangling JavaScript

Non root variables are mangled



```
return gulp
  .src(config.index)
  .pipe($.plumber())
  .pipe($.inject(
    gulp.src(templateCache, {read: false}), {
      starttag: '<!-- inject:templates:js -->'
    })
  )
  .pipe(assets)
  .pipe(cssFilter)
  .pipe($.csso())
  .pipe(cssFilter.restore())
  .pipe(jsFilter)
  .pipe($.uglify())
  .pipe(jsFilter.restore())
  .pipe(assets.restore())
  .pipe($.userref())
  .pipe(gulp.dest(config.build));
```

Recap

| | |
|--------------------------|---------------------------------|
| <code>gulp-filter</code> | Filter files in the Gulp stream |
| <code>gulp-cssso</code> | Minify CSS |
| <code>gulp-uglify</code> | Minify JavaScript |

