#### Sensible Broccoli

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Covering the basics, and some real world use cases.

### I'm a JavaScript Developer

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And I've been writing JavaScript since...

### Before Crockford told us it was good.

"Fortunately, JavaScript has some extraordinarily good parts. In JavaScript, there is a beautiful, elegant, highly expressive language...

### Before Crockford told us it was good.

And everyone else was still saying it was bad...

"Fortunately, JavaScript has some extraordinarily good parts. In JavaScript, there is a beautiful, elegant, highly expressive language...

### Before Crockford told us it was good.

And everyone else was still saying it was bad... Even him.

"Fortunately, JavaScript has some extraordinarily good parts. In JavaScript, there is a beautiful, elegant, highly expressive language that is buried under a steaming pile of good intentions and blunders."



At least it wasn't shockwave.



At least it wasn't shockwave. Or java applets.



At least it wasn't shockwave. Or java applets. Or HyperCard..



# Yehuda was working for the enemy

In Ruby, we have the great fortune to have one major framework (Rails) and a number of minor frameworks that drive innovation forward.

## Yehuda was working for the enemy

But there was still good in him.

"jQuery provides a powerful evented model that can be used to build up fairly complex applications

## Even before node.js



# Even before node.js

Was in diapers...



#### Was obtrusive and Contained HTML

```
render: function() {
    return (
     '<div>' +
      '<h3>Ask A Question</h3>' +
       '' + exampleQuestion + '' +
       '<form onSubmit="handleQuestion">' +
         '<input onChange="onChange" value="' + defaultQuestion + '" />' +
         '<button>Ask</button>' +
       '</form>' +
     '</div>'
```

#### Was obtrusive and Contained HTML

Well... Some are still doing that one...

```
render: function() {
    return (
     <div>
       <h3>Ask A Question</h3>
       {exampleQuestion}
       <form onSubmit={handleQuestion}>
         <input onChange={onChange} value={defaultQuestion} />
          <button>Ask/button>
       </form>
      </div>
```

#### Ember Talk Checklist..

#### Ember Talk Checklist..

Troll react.

#### Ember Talk Checklist..

Troll react.

Anyway..

### Broccoli

# There are two main aspects.

## There are two main aspects.

Manipulating of file structures.

### There are two main aspects.

Manipulating of file structures. Manipulating of file contents.

## Manipulating of File Structures

### Manipulating of File Structures

Bread and butter of broccoli.

## Manipulating of File Structures

Bread and butter of broccoli. The two main directives are...

# Funnels & Merges

```
var tree = new Funnel('app');
```

— styles/

templates/

— styles/app.scss

templates/components/

— templates/components/two-thing.hbs

```
var tree = new Funnel('app', {
    srcDir: 'routes'
});
```

```
└─ app.js
__ components/
  components/two-thing.js
├─ index.html
— resolver.js
— router.js
— routes/
  routes/one-thing/
     -- routes/one-thing/component.js
     — routes/one-thing/template.hbs
— styles/
  styles/app.scss
templates/
  templates/components/
     — templates/components/two-thing.hbs
```

```
var tree = new Funnel('app', {
    srcDir: 'routes'
});
```

```
-- one-thing/
-- one-thing/component.js
-- one-thing/template.hbs
```

```
var tree = new Funnel('app', {
    srcDir: 'routes',
    include: ['**/*.js']
});
```

```
b one-thing/
b one-thing/component.js
b one-thing/template.hbs
```

```
var tree = new Funnel('app', {
    srcDir: 'routes',
    include: ['**/*.js']
});
```

```
-- one-thing/
-- one-thing/component.js
```

— routes/one-thing/

— styles/app.scss

templates/components/

— styles/

templates/

routes/one-thing/component.js

— routes/one-thing/template.hbs

— templates/components/two-thing.hbs

```
var tree = new Funnel('app', {
    srcDir: '.',
    include: ['**/*.hbs']
});
```

```
L app.js
__ components/
  components/two-thing.js
— index.html
— resolver.js
— router.js
— routes/
  routes/one-thing/
     -- routes/one-thing/component.js
     — routes/one-thing/template.hbs
— styles/
  styles/app.scss
templates/
  templates/components/
     — templates/components/two-thing.hbs
```

```
var tree = new Funnel('app', {
    srcDir: '.',
    include: ['**/*.hbs']
});
```

```
var tree = new Funnel('app', {
    srcDir: '.',
    include: ['**/*.hbs'],
    exclude: ['templates/**']
});
```

```
routes/
routes/one-thing/
routes/one-thing/template.hbs

templates/
templates/components/
templates/components/
templates/components/two-thing.hbs
```

```
var tree = new Funnel('app', {
    srcDir: '.',
    include: ['**/*.hbs'],
    exclude: ['templates/**']
});
```

```
routes/
routes/one-thing/
routes/one-thing/template.hbs
```

```
var appTree = new Funnel('app');
```

```
var appTree = new Funnel('app');
```

```
└─ app.js
components/
  — components/one-thing.js
├─ index.html
├─ resolver.js
└─ router.js
— routes/
  routes/three-thing/
     routes/three-thing/component.js
     routes/three-thing/route.js
     — routes/three-thing/template.hbs
  routes/two-thing/
     routes/two-thing/component.js
     routes/two-thing/template.hbs
└─ styles/
  templates/
  templates/components/
     templates/components/one-thing.hbs
```

```
var appTree = new Funnel('app');

var justRoutes = new Funnel(appTree, {
    srcDir: 'routes'
});
```

```
└─ app.js
components/
  components/one-thing.js
— index.html
— resolver.js
— router.js
— routes/
  routes/three-thing/
     routes/three-thing/component.js
     routes/three-thing/route.js
     — routes/three-thing/template.hbs
  routes/two-thing/
     routes/two-thing/component.js
     routes/two-thing/template.hbs
— styles/
  — styles/app.css
templates/
  templates/components/
     templates/components/one-thing.hbs
```

```
var appTree = new Funnel('app');

var justRoutes = new Funnel(appTree, {
    srcDir: 'routes'
});
```

```
    three-thing/
    three-thing/component.js
    three-thing/route.js
    three-thing/template.hbs

two-thing/
    two-thing/component.js
    two-thing/template.hbs
```

```
var appTree = new Funnel('app');

var justRoutes = new Funnel(appTree, {
    srcDir: 'routes'
});

var routeComponents = new Funnel(justRoutes, {
    include: ['**/component.js'],
    destDir: 'components'
});
```

```
b three-thing/
b three-thing/component.js
b three-thing/route.js
b three-thing/template.hbs
b two-thing/
b two-thing/component.js
b two-thing/template.hbs
```

```
var appTree = new Funnel('app');

var justRoutes = new Funnel(appTree, {
    srcDir: 'routes'
});

var routeComponents = new Funnel(justRoutes, {
    include: ['**/component.js'],
    destDir: 'components'
});
```

```
components/
components/three-thing/
components/three-thing/component.js
components/two-thing/
components/two-thing/component.js
```

```
var appTree = new Funnel('app');

var justRoutes = new Funnel(appTree, {
    srcDir: 'routes'
});

var routeComponents = new Funnel(justRoutes, {
    include: ['**/component.js'],
    destDir: 'components',
    getDestinationPath(relativePath) {
      return relativePath.replace('/component', '');
    }
});
```

```
components/
components/three-thing/
components/three-thing/component.js
components/two-thing/
components/two-thing/component.js
```

```
var appTree = new Funnel('app');

var justRoutes = new Funnel(appTree, {
    srcDir: 'routes'
});

var routeComponents = new Funnel(justRoutes, {
    include: ['**/component.js'],
    destDir: 'components',
    getDestinationPath(relativePath) {
    return relativePath.replace('/component', '');
    }
});
```

```
components/
components/three-thing.js
components/two-thing.js
```

```
var appTree = new Funnel('app');
var justRoutes = new Funnel(appTree, {
  srcDir: 'routes'
});
var routeComponents = new Funnel(justRoutes, {
  include: ['**/component.js'],
  destDir: 'components',
  getDestinationPath(relativePath) {
    return relativePath.replace('/component', '');
});
var routeTemplates = new Funnel(justRoutes, {
  include: ['**/template.hbs'],
  destDir: 'templates/components',
  getDestinationPath(relativePath) {
    return relativePath.replace('/template', '');
```

```
components/
  components/three-thing.js
  components/two-thing.js
templates/
  templates/components/
     templates/components/three-thing.hbs
```

templates/components/two-thing.hbs

```
var appTree = new Funnel('app');
var justRoutes = new Funnel(appTree, {
  srcDir: 'routes'
});
var routeComponents = new Funnel(justRoutes, {
  include: ['**/component.js'],
  destDir: 'components',
  getDestinationPath(relativePath) {
    return relativePath.replace('/component', '');
});
var routeTemplates = new Funnel(justRoutes, {
  include: ['**/template.hbs'],
  destDir: 'templates/components',
  getDestinationPath(relativePath) {
    return relativePath.replace('/template', '');
});
var excludeRouteComponents = Funnel(appTree, {
  exclude: ['routes/**/{component.js,template.hbs}']
});
```

```
— app.js
components/
  components/one-thing.js
— index.html
— resolver.js
— router.js
— routes/
  routes/three-thing/
     routes/three-thing/component.js
     routes/three-thing/route.js
     routes/three-thing/template.hbs
  routes/two-thing/
     routes/two-thing/component.js
     routes/two-thing/template.hbs
— styles/
  — styles/app.css
templates/
  templates/components/
     templates/components/one-thing.hbs
```

```
var appTree = new Funnel('app');
var justRoutes = new Funnel(appTree, {
  srcDir: 'routes'
});
var routeComponents = new Funnel(justRoutes, {
  include: ['**/component.js'],
  destDir: 'components',
  getDestinationPath(relativePath) {
    return relativePath.replace('/component', '');
});
var routeTemplates = new Funnel(justRoutes, {
  include: ['**/template.hbs'],
  destDir: 'templates/components',
  getDestinationPath(relativePath) {
    return relativePath.replace('/template', '');
});
var excludeRouteComponents = Funnel(appTree, {
  exclude: ['routes/**/{component.js,template.hbs}']
});
```

```
└─ app.js
components/
  components/one-thing.js

    index.html

├─ resolver.js
— router.js
— routes/
  routes/three-thing/
     routes/three-thing/route.js
— styles/
  templates/
  templates/components/
     templates/components/one-thing.hbs
```

```
var appTree = new Funnel('app');
var justRoutes = new Funnel(appTree, {
  srcDir: 'routes'
                                                                    components/
                                                                       components/three-thing.js
});
                                                                       components/two-thing.js
var routeComponents = new Funnel(justRoutes, {
  include: ['**/component.js'],
  destDir: 'components',
  getDestinationPath(relativePath) {
    return relativePath.replace('/component', '');
});
var routeTemplates = new Funnel(justRoutes, {
  include: ['**/template.hbs'],
  destDir: 'templates/components',
  getDestinationPath(relativePath) {
    return relativePath.replace('/template', '');
                                                                    templates/
                                                                       templates/components/
                                                                          templates/components/three-thing.hbs
});
                                                                          templates/components/two-thing.hbs
var excludeRouteComponents = Funnel(appTree, {
  exclude: ['routes/**/{component.js,template.hbs}']
});
var alteredApp = new Merge([routeComponents, routeTemplates, excludeRouteComponents]);
```

```
var appTree = new Funnel('app');
var justRoutes = new Funnel(appTree, {
                                                                   └─ app.js
  srcDir: 'routes'
                                                                   components/
                                                                      components/one-thing.js
});
                                                                      components/three-thing.js
                                                                      components/two-thing.js
var routeComponents = new Funnel(justRoutes, {
                                                                   ─ index.html
  include: ['**/component.js'],
                                                                   — resolver.js
  destDir: 'components',
                                                                   — router.js
  getDestinationPath(relativePath) {
    return relativePath.replace('/component', '');
                                                                   — routes/
                                                                      — routes/three-thing/
                                                                         routes/three-thing/route.js
});
var routeTemplates = new Funnel(justRoutes, {
  include: ['**/template.hbs'],
  destDir: 'templates/components',
                                                                   — styles/
  getDestinationPath(relativePath) {
                                                                      — styles/app.css
                                                                   templates/
    return relativePath.replace('/template', '');
                                                                      templates/components/
                                                                         templates/components/one-thing.hbs
});
                                                                         templates/components/three-thing.hbs
                                                                         templates/components/two-thing.hbs
var excludeRouteComponents = Funnel(appTree, {
  exclude: ['routes/**/{component.js,template.hbs}']
});
var alteredApp = new Merge([routeComponents, routeTemplates, excludeRouteComponents]);
```

### Great. But now what?

### Great. But now what?

I didn't come here to just move files around.

### Great. But now what?

I didn't come here to just move files around. I want to manipulate there contents

### Adding Some Basic Filters

```
var routeComponents = Funnel(justRoutes, {
  include: ['**/component.js'],
  destDir: 'components',
  getDestinationPath(relativePath) {
    return relativePath.replace('/component.js', '.js');
  }
});
```

## Adding Some Basic Filters

```
var routeComponents = Funnel(justRoutes, {
  include: ['**/component.js'],
  destDir: 'components',
  getDestinationPath(relativePath) {
    return relativePath.replace('/component.js', '.js');
  }
});

routeComponents = new EsTranspiler(routeComponents);

routeComponents = new UglifyJS(routeComponents);
```

## What about debugging?

## Trying some debugging.

```
var routeComponents = Funnel(justRoutes, {
  include: ['**/component.js'],
  destDir: 'components',
  getDestinationPath(relativePath) {
    return relativePath.replace('/component.js', '.js');
  }
});

routeComponents = new EsTranspiler(routeComponents);
console.log(routeComponents);
routeComponents = new UglifyJS(routeComponents);
```

```
{ [Function: disabled]
            enabled: false,
          namespace: 'broccoli-persistent-filter:Babel' },
     _instantiationStack: ' at Babel.Plugin (/Users/mavery/Documents/testers/broccoli-example/node_modules/broccoli-babel-transpiler/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-babel-transpiler/
1000 = 1000 = 1000 = 1000 = 1000 = 1000 = 1000 = 1000 = 1000 = 1000 = 1000 = 1000 = 1000 = 1000 = 1000 = 1000 = 1000 = 1000 = 1000 = 1000 = 1000 = 1000 = 1000 = 1000 = 1000 = 1000 = 1000 = 1000 = 1000 = 1000 = 1000 = 1000 = 1000 = 1000 = 1000 = 1000 = 1000 = 1000 = 1000 = 1000 = 1000 = 1000 = 1000 = 1000 = 1000 = 1000 = 1000 = 1000 = 1000 = 1000 = 1000 = 1000 = 1000 = 1000 = 1000 = 1000 = 1000 = 1000 = 1000 = 1000 = 1000 = 1000 = 1000 = 1000 = 1000 = 1000 = 1000 = 1000 = 1000 = 1000 = 1000 = 1000 = 1000 = 1000 = 1000 = 1000 = 1000 = 1000 = 1000 = 1000 = 1000 = 1000 = 1000 = 1000 = 1000 = 1000 = 1000 = 1000 = 1000 = 1000 = 1000 = 1000 = 1000 = 1000 = 1000 = 1000 = 1000 = 1000 = 1000 = 1000 = 1000 = 1000 = 1000 = 1000 = 1000 = 1000 = 1000 = 1000 = 1000 = 1000 = 1000 = 1000 = 1000 = 1000 = 1000 = 1000 = 1000 = 1000 = 1000 = 1000 = 1000 = 1000 = 1000 = 1000 = 1000 = 1000 = 1000 = 1000 = 1000 = 1000 = 1000 = 1000 = 1000 = 1000 = 1000 = 1000 = 1000 = 1000 = 1000 = 1000 = 1000 = 1000 = 1000 = 1000 = 1000 = 1000 = 1000 = 1000 = 1000 = 1000 = 1000 = 1000 = 1000 = 1000 = 1000 = 1000 = 1000 = 1000 = 1000 = 1000 = 1000 = 1000 = 1000 = 1000 = 1000 = 1000 = 1000 = 1000 = 1000 = 1000 = 1000 = 1000 = 1000 = 1000 = 1000 = 1000 = 1000 = 1000 = 1000 = 1000 = 1000 = 1000 = 1000 = 1000 = 1000 = 1000 = 1000 = 1000 = 1000 = 1000 = 1000 = 1000 = 1000 = 1000 = 1000 = 1000 = 1000 = 1000 = 1000 = 1000 = 1000 = 1000 = 1000 = 1000 = 1000 = 1000 = 1000 = 1000 = 1000 = 1000 = 1000 = 1000 = 1000 = 1000 = 1000 = 1000 = 1000 = 1000 = 1000 = 1000 = 1000 = 1000 = 1000 = 1000 = 1000 = 1000 = 1000 = 1000 = 1000 = 1000 = 1000 = 1000 = 1000 = 1000 = 1000 = 1000 = 1000 = 1000 = 1000 = 1000 = 1000 = 1000 = 1000 = 1000 = 1000 = 1000 = 1000 = 1000 = 1000 = 1000 = 1000 = 1000 = 1000 = 1000 = 1000 = 1000 = 1000 = 1000 = 1000 = 1000 = 1000 = 1000 = 1000 = 1000 = 10000 = 1000 = 1000 = 1000 = 1000 = 1000 = 1000 = 1000 = 1000 = 10000 = 10000 = 10000 = 10000 = 10000 = 10000 = 10000 = 10000 = 10000 = 10000 = 10000 = 10000 = 10000 = 10000 = 10000 = 10000 = 1000
testers/broccoli-example/node_modules/ember-cli/lib/models/addon.js:373:33)\n at CoreObject.treeFor (/Users/mavery/Documents/testers/broccoli-example/node_modules/ember-cli/lib/models/addon.js:341:21)\n at /Users/mavery/Documents/testers/broccoli-example/node_modules/ember-cli/lib/models/addon.js:373:33)\n at /Users/mavery/Documents/testers/broccoli-example/node_modules/ember-cli/lib/models/addon.js:373:33\n at /Users/mavery/Documents/testers/broccoli-example/node_modules/ember-cli/lib/models/addon.js:373:33\n at /Users/mavery/Documents/broccoli-example/node_modules/ember-cli/lib/models/addon.js:373:33\n at /Users/mavery/Documents/broccoli-example/node_modules/ember-cli/l
EmberApp.addonTreesFor (/Users/mavery/Documents/testers/broccoli-example/node_modules/ember-app.js:496:30)\n at EmberApp._processedAppTree (/Users/mavery/Documents/testers/broccoli-example/node_modules/ember-cli/lib/broccoli/ember-app.js:792:25)',
    _name: 'Babel',
    _annotation: undefined.
    _baseConstructorCalled: true,
     _inputNodes:
      Funnel {
                    _instantiationStack: ' at Funnel.Plugin (/Users/mavery/Documents/testers/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_m
broccoli-example/node_modules/ember-cli/lib/broccoli/ember-app.js:498:20\n at Array.map (native)\n at /Users/mavery/Documents/testers/broccoli-example/node_modules/ember-cli/lib/broccoli/ember-app.js:496:30)\n at /Users/mavery/Documents/testers/broccoli-example/node_modules/ember-cli/lib/broccoli/ember-cli/lib/broccoli/ember-app.js:496:30)\n at /Users/mavery/Documents/testers/broccoli-example/node_modules/ember-cli/lib/broccoli/ember-app.js:496:30)\n at /Users/mavery/Documents/testers/broccoli-example/node_modules/ember-cli/lib/broccoli/ember-app.js:496:30)\n at /Users/mavery/Documents/testers/broccoli-example/node_modules/ember-cli/lib/broccoli/ember-app.js:496:30)\n at /Users/mavery/Documents/testers/broccoli-example/node_modules/ember-app.js:496:30)\n at /Users/mavery/Documents/testers/broccoli/ember-app.js:496:30)\n at /Users/mavery/Documents/broccoli/ember-app.js:496:30)\n at /Users/mavery/Documents/broccoli/ember-app
EmberApp._processedAppTree (/Users/mavery/Documents/testers/broccoli-example/node_modules/ember-cli/lib/broccoli/ember-app.js:792:25)',
                   _name: 'Funnel'.
                    _annotation: undefined,
                    _baseConstructorCalled: true,
                    _inputNodes: [Object],
                    _persistentOutput: true,
                    _includeFileCache: {},
                    _destinationPathCache: {},
                    _currentTree: [Object],
                   include: [Object],
                   destDir: 'components',
                   getDestinationPath: [Function: getDestinationPath],
                   count: 0,
                    _matchedWalk: true,
                     _instantiatedStack: 'Error\n at new Funnel (/Users/mavery/Documents/testers/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/nod
ember-cli/lib/broccoli/ember-app.js:498:20\n at EmberApp.addonTreesFor (/Users/mavery/Documents/testers/broccoli-example/node_modules/ember-app.js:498:30\\n at EmberApp.addonTreesFor (/Users/mavery/Documents/testers/broccoli/ember-app.js:498:30)\n at EmberApp.addonTreesFor (/Users/mavery/Documents/testers/broccoli/e
at EmberApp.appAndDependencies (/Users/mavery/Documents/testers/broccoli-example/node_modules/ember-cli/lib/broccoli/ember-app.js:1063:10)',
                    _buildStart: undefined } ],
     _persistentOutput: true,
    processor:
     Processor {
            processor:
               { _cache: [Object],
                      init: [Function],
                     cacheKey: [Function],
                     processString: [Function] },
             persistent: true },
    currentTree: FSTree { entries: [] },
     _counters:
      { hit: 0,
           prime: 0,
            operations: { mkdir: 0, rmdir: 0, unlink: 0, change: 0, create: 0, other: 0 },
            linked: 0,
            processed: 0 },
     _canProcessCache: {},
     _destFilePathCache: {},
   options: {},
    moduleMetadata: {},
    extensions: [ 'js' ],
    extensionsRegex: [ /.js$/ ];
    name: 'broccoli-babel-transpiler',
    inputTree:
     Funnel {
             _instantiationStack: 'at Funnel.Plugin (/Users/mavery/Documents/testers/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_mo
node_modules/broccoli-funnel/index.js:42:43)

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EmberApp._processedAppTree (/Users/mavery/Documents/testers/broccoli-example/node_modules/ember-cli/lib/broccoli/ember-app.js:792:25)',
             _name: 'Funnel',
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              _baseConstructorCalled: true,
              _inputNodes: [ [Object] ],
              _persistentOutput: true,
              _includeFileCache: {},
              _destinationPathCache: {},
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             include: [ [Object] ],
            destDir: 'components',
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            count: 0,
             _matchedWalk: true,
             _instantiatedStack: 'Error\n at new Funnel (/Users/mavery/Documents/testers/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/nod
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at EmberApp.appAndDependencies (/Users/mavery/Documents/testers/broccoli-example/node_modules/ember-cli/lib/broccoli/ember-app.js:1063:10)',
             _buildStart: undefined } }
```

Babel {

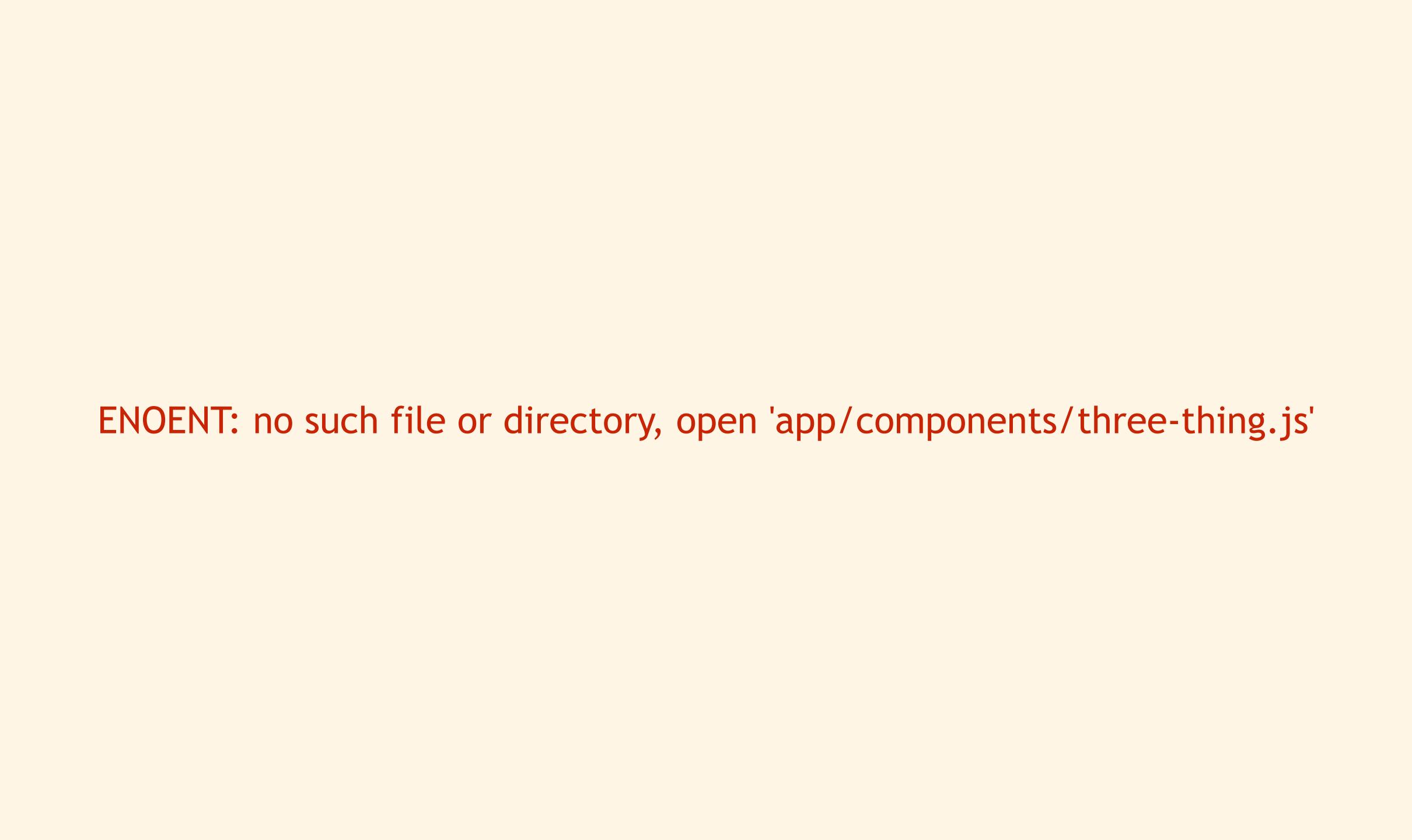
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{ [Function: disabled]
         enabled: false,
         namespace: 'broccoli-persistent-filter:Babel' },
   _instantiationStack: ' at Babel.Plugin (/Users/mavery/Documents/testers/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_mo
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   _annotation: undefined.
   _baseConstructorCalled: true,
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                   _instantiationStack: ' at Funnel.Plugin (/Users/mavery/Documents/testers/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_m
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EmberApp._processedAppTree (/Users/mavery/Documents/testers/broccoli-example/node_modules/ember-cli/lib/broccoli/ember-app.js:792:25)',
                    _annotation: undefined,
                    _baseConstructorCalled: true,
                     _inputNodes: [Object],
                     _persistentOutput: true,
                      _includeFileCache: {},
                    _destinationPathCache: {}.
                    _currentTree: [Object],
                   destDir: 'components',
                   getDestinationPath: [Function: getDestinationPath],
                   count: 0.
                   matchedWalk: true.
                     _instantiatedStack: 'Error\n at new Funnel (/Users/mavery/Documents/testers/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/nod
ember-cli/lib/broccoli/ember-app.js:498:20\n at EmberApp.addonTreesFor (/Users/mavery/Documents/testers/broccoli/ember-app.js:498:30\\n at EmberApp.js:498:20\n at EmberApp.js:498
t EmberApp.appAndDependencies (/Users/mavery/Documents/testers/broccoli-example/node_modules/ember-cli/lib/broccoli/ember-app.js:1063:10)',
                  _buildStart: undefined } ],
   _persistentOutput: true,
                                                                                                                                                           Not what we where looking for
               { _cache: [Object]
                    init: [Function],
                   cacheKey: [Function],
                   processString: [Function] },
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   currentTree: FSTree { entries: [] },
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           operations: { mkdir: 0, rmdir: 0, unlink: 0, change: 0, create: 0, other: 0 },
           linked: 0,
          processed: 0 },
      _canProcessCache: {}
   _destFilePathCache: {},
  moduleMetadata: {},
 extensions: [ 'js'
  extensionsRegex: [ /.js$/ ].
  name: 'broccoli-babel-transpiler',
  inputTree:
   Funnel {
           _instantiationStack: ' at Funnel.Plugin (/Users/mavery/Documents/testers/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_m
 ode_modules/broccoli-funnel/index.js:42:43)
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n at CoreObject.treeFor (/Users/mavery/Documents/testers/broccoli-example/node_modules/ember-cli/lib/models/addon.js:00:23)
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 mberApp._processedAppTree (/Users/mavery/Documents/testers/broccoli-example/node_modules/ember-cli/lib/broccoli/ember-app.js:792:25)',
           _name: 'Funnel',
              _baseConstructorCalled: true,
              _inputNodes: [ [Object] ],
              _persistentOutput: true.
               _includeFileCache: {},
              _destinationPathCache: {},
              _currentTree: FSTree { entries: [] },
            destDir: 'components',
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           count: 0,
             _matchedWalk: true,
             _instantiatedStack: 'Error\n at new Funnel (/Users/mavery/Documents/testers/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/node_modules/broccoli-example/nod
mber-cli/lib/broccoli/ember-app.js:498:20\n at EmberApp.addonTreesFor (/Users/mavery/Documents/testers/broccoli-example/node_modules/ember-app.js:496:30)\n at EmberApp.addonTreesFor (/Users/mavery/Documents/testers/broccoli-example/node_modules/ember-app.js:496:30)\n at EmberApp.addonTreesFor (/Users/mavery/Documents/testers/broccoli/ember-app.js:496:30)\n
 t EmberApp.appAndDependencies (/Users/mavery/Documents/testers/broccoli-example/node_modules/ember-cli/lib/broccoli/ember-app.js:1063:10)',
```

\_buildStart: undefined } }

## Trying some debugging.

```
var routeComponents = Funnel(justRoutes, {
  include: ['**/component.js'],
  destDir: 'components',
  getDestinationPath(relativePath) {
    return relativePath.replace('/component.js', '.js');
  }
});

routeComponents = new EsTranspiler(routeComponents);
console.log(fs.readFileSync('app/components/three-thing.js', 'utf8'));
routeComponents = new UglifyJS(routeComponents);
```



## Trying some debugging.

```
var routeComponents = Funnel(justRoutes, {
  include: ['**/component.js'],
  destDir: 'components',
  getDestinationPath(relativePath) {
    return relativePath.replace('/component.js', '.js');
  }
});

routeComponents = new EsTranspiler(routeComponents);
console.log(fs.readFileSync('app/routes/three-thing/component.js', 'utf8'));
routeComponents = new UglifyJS(routeComponents);
```

```
import Ember from 'ember';
export default Ember.Component.extend({
});
```

### Still not what we where after.

## Trying some debugging.

```
var routeComponents = Funnel(justRoutes, {
  include: ['**/component.js'],
  destDir: 'components',
  getDestinationPath(relativePath) {
    return relativePath.replace('/component.js', '.js');
  }
});

routeComponents = new EsTranspiler(routeComponents);
console.log(routeComponents);
console.log(fs.readFileSync('app/components/three-thing.js', 'utf8'));
console.log(fs.readFileSync('app/routes/three-thing/component.js', 'utf8'));
routeComponents = new UglifyJS(routeComponents);
```

## There are also two main phases.

## There are also two main phases.

Setup and Build.

# Setup

## Setup

So this is what we have been doing so far.

# These are all run in the setup phase.

```
var routeComponents = Funnel(justRoutes, {
  include: ['**/component.js'],
  destDir: 'components',
  getDestinationPath(relativePath) {
    return relativePath.replace('/component.js', '.js');
  }
});
routeComponents = new EsTranspiler(routeComponents);
```

# Back to the debugging example.

# Back to the debugging example.

And enter 'broccoli-stew'

# Back to the debugging example.

And enter 'broccoli-stew' And lets keep the debugging in the build phase.

```
var routeComponents = Funnel(justRoutes, {
  include: ['**/component.js'],
  destDir: 'components',
  getDestinationPath(relativePath) {
    return relativePath.replace('/component.js', '.js');
  }
});
routeComponents = new EsTranspiler(routeComponents);
```

```
var routeComponents = Funnel(justRoutes, {
  include: ['**/component.js'],
  destDir: 'components',
  getDestinationPath(relativePath) {
    return relativePath.replace('/component.js', '.js');
  }
});

routeComponents = new EsTranspiler(routeComponents);
console.log(routeComponents);
routeComponents = new UglifyJS(routeComponents);
```

```
var routeComponents = Funnel(justRoutes, {
  include: ['**/component.js'],
  destDir: 'components',
  getDestinationPath(relativePath) {
    return relativePath.replace('/component.js', '.js');
  }
});

routeComponents = new EsTranspiler(routeComponents);
routeComponents = Stew.log(routeComponents, {output: 'tree'});
routeComponents = new UglifyJS(routeComponents);
```

```
routeComponents = new EsTranspiler(routeComponents);
routeComponents = Stew.map(routeComponents, function(content, relativePath) {
   console.log(content);
   return content;
});
```

```
routeComponents = new EsTranspiler(routeComponents);
routeComponents = Stew.map(routeComponents, function(content, relativePath) {
  console.log(content);
  return content;
});
'use strict';
Object.defineProperty(exports, '__esModule', {
 value: true
});
function _interopRequireDefault(obj) { return obj && obj.__esModule ? obj : { 'default': obj }; }
var _ember = require('ember');
var _ember2 = _interopRequireDefault(_ember);
exports['default'] = _ember2['default'].Component.extend({});
module.exports = exports['default'];
```

# And this is the power of the build.

# And this is the power of the build.

Cause you only setup once,

# And this is the power of the build.

Cause you only setup once, but you build every time.

## Lets unpack this build a little more

## Lets unpack this build a little more

Using on of the build plugins broccoli-filter'

```
var Filter = require('broccoli-filter');
var UglifyJS = require('uglify-js');
module.exports = UglifyJSFilter;
UglifyJSFilter.prototype = Object.create(Filter.prototype);
UglifyJSFilter.prototype.constructor = UglifyJSFilter;
function UglifyJSFilter (inputTree, options) {
  Filter.call(this, inputTree, options);
  this.options = options | | {};
};
UglifyJSFilter.prototype.extensions = ['js'];
UglifyJSFilter.prototype.targetExtension = 'js';
UglifyJSFilter.prototype.processString = function (string, relativePath) {
  var result = UglifyJS.minify(string, {
    • • •
  return result.code;
};
```

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var Filter = require('broccoli-filter');
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```

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  var result = UglifyJS.minify(string, {
    • • •
  return result.code;
};
```

So that's the basics of broccoli.

### So that's the basics of broccoli.

Now for some real world applications.

'ember-component-css'

# 'ember-component-css'

This addon revolutionized the way I write css.

# ember-component-css '

This addon revolutionized the way I write css. But it was in an old crufty state

# Styles are contextual to you component.

```
index.html
pod-component/
pod-component/component.js
pod-component/styles.scss
pod-component/template.hbs
resolver.js
router.js
styles/
styles/app.css
```

```
display: flex;
h2 {
  margin-top: 0;
  color: $midnight;
h5 {
  margin: 0;
  a {
    &:hover {
      text-decoration: underline;
    &:before {
      @include line-triangle;
      border-color: $medium;
```

# Styles are contextual to you component.

```
index.html
pod-component/
pod-component/component.js
pod-component/styles.scss
pod-component/template.hbs
resolver.js
router.js
styles/
styles/app.css
```

```
.__checklist-group__0c8ee {
 display: flex;
.__checklist-group__0c8ee h2 {
 margin-top: 0;
 color: $midnight;
.__checklist-group__0c8ee h5 {
 margin: 0;
 a {
   &:hover {
     text-decoration: underline;
   &:before {
     @include line-triangle;
     border-color: $medium;
```

# So lets unpack some of the pieces.

# So lets unpack some of the pieces.

First, the filter that makes this change.

```
treeForStyles: function(tree) {
  var podStyles = this._getPodStyleFunnel();
  podStyles = new PodStyles(podStyles, {
    extensions: this.allowedStyleExtensions,
    annotation: 'Filter (ember-component-css process component with class names)'
  });
  var styleManifest = new IncludeAll(podStyles, {
    annotation: 'IncludeAll (ember-component-css combining all style files that there are extensions for)'
  });
  podStyles = new Merge([podStyles, styleManifest, tree].filter(Boolean), {
    annotation: 'Merge (ember-component-css merge namespacedStyles with style manafest)'
  });
  return this._super.treeForStyles.call(this, podStyles);
},
```

```
treeForStyles: function(tree) {
 var podStyles = this._getPodStyleFunnel();
 podStyles = new PodStyles(podStyles, {
   extensions: this.allowedStyleExtensions,
   annotation: 'Filter (ember-component-css process component with class names)'
 });
 var styleManifest = new IncludeAll(podStyles, {
   annotation: 'IncludeAll (ember-component-css combining all style files that there are extensions for)'
 });
 podStyles = new Merge([podStyles, styleManifest, tree].filter(Boolean), {
   annotation: 'Merge (ember-component-css merge namespacedStyles with style manafest)'
 });
 return this._super.treeForStyles.call(this, podStyles);
```

```
function PodStyles(inputTree, options) {
  options = options || {};
  Filter.call(this, inputTree, {
    name: 'pod-styles-add-name',
    annotation: options.annotation
  });
  this.extensions = options.extensions;
};
PodStyles.prototype.processString = function(contents, stylePath) {
  var extension = path.extname(stylePath),
      className = componentNames.class(stylePath);
      strategy = 'default';
  switch (extension) {
    case '.styl':
    case '.sass':
      strategy = 'indentation';
      break;
    case '.less':
    case '.scss':
      strategy = 'syntax';
      break;
  return processStratagies[strategy](contents, className, extension);
};
```

```
function PodStyles(inputTree, options) {
  options = options || {};
  Filter.call(this, inputTree, {
    name: 'pod-styles-add-name',
    annotation: options.annotation
  });
  this.extensions = options.extensions;
};
PodStyles.prototype.processString = function(contents, stylePath) {
  var extension = path.extname(stylePath),
      className = componentNames.class(stylePath);
      strategy = 'default';
  switch (extension) {
    case '.styl':
    case '.sass':
      strategy = 'indentation';
      break;
    case '.less':
    case '.scss':
      strategy = 'syntax';
      break;
  return processStratagies[strategy](contents, className, extension);
};
```

```
function PodStyles(inputTree, options) {
  options = options || {};
  Filter.call(this, inputTree, {
    name: 'pod-styles-add-name',
    annotation: options.annotation
 });
  this.extensions = options.extensions;
PodStyles.prototype.processString = function(contents, stylePath) {
  var extension = path.extname(stylePath),
      className = componentNames.class(stylePath);
      strategy = 'default';
  switch (extension) {
    case '.styl':
    case '.sass':
      strategy = 'indentation';
      break;
    case '.less':
    case '.scss':
      strategy = 'syntax';
      break;
  return processStratagies[strategy](contents, className, extension);
};
```

So that's a basic filter you might see.

# So that's a basic filter you might see.

Now for something a little more...

# So that's a basic filter you might see.

Now for something a little more... Tricky

#### Finding the class names to use for the component.

```
PodNames.prototype.build = function() {
  var srcDir = this.inputPaths[0];
  var entries = walkSync.entries(srcDir);
  var nextTree = new FSTree.fromEntries(entries, { sortAndExpand: true });
  var currentTree = this.currentTree;
  this.currentTree = nextTree;
  var patches = currentTree.calculatePatch(nextTree);
  return Promise.resolve().then(this.writePodStyleName.bind(this, patches));
};
PodNames.prototype.writePodStyleName = function(patches) {
  for (var i = 0; i < patches.length; i++) {</pre>
    switch (patches[i][0]) {
      case 'create':
        this.addClass(patches[i][1]);
        break;
      case 'unlink':
        this.removeClass(patches[i][1]);
        break;
  var output = 'export default ' + JSON.stringify(this.podNameJson);
  return fs.writeFileSync(path.join(this.outputPath, 'pod-names.js'), output);
```