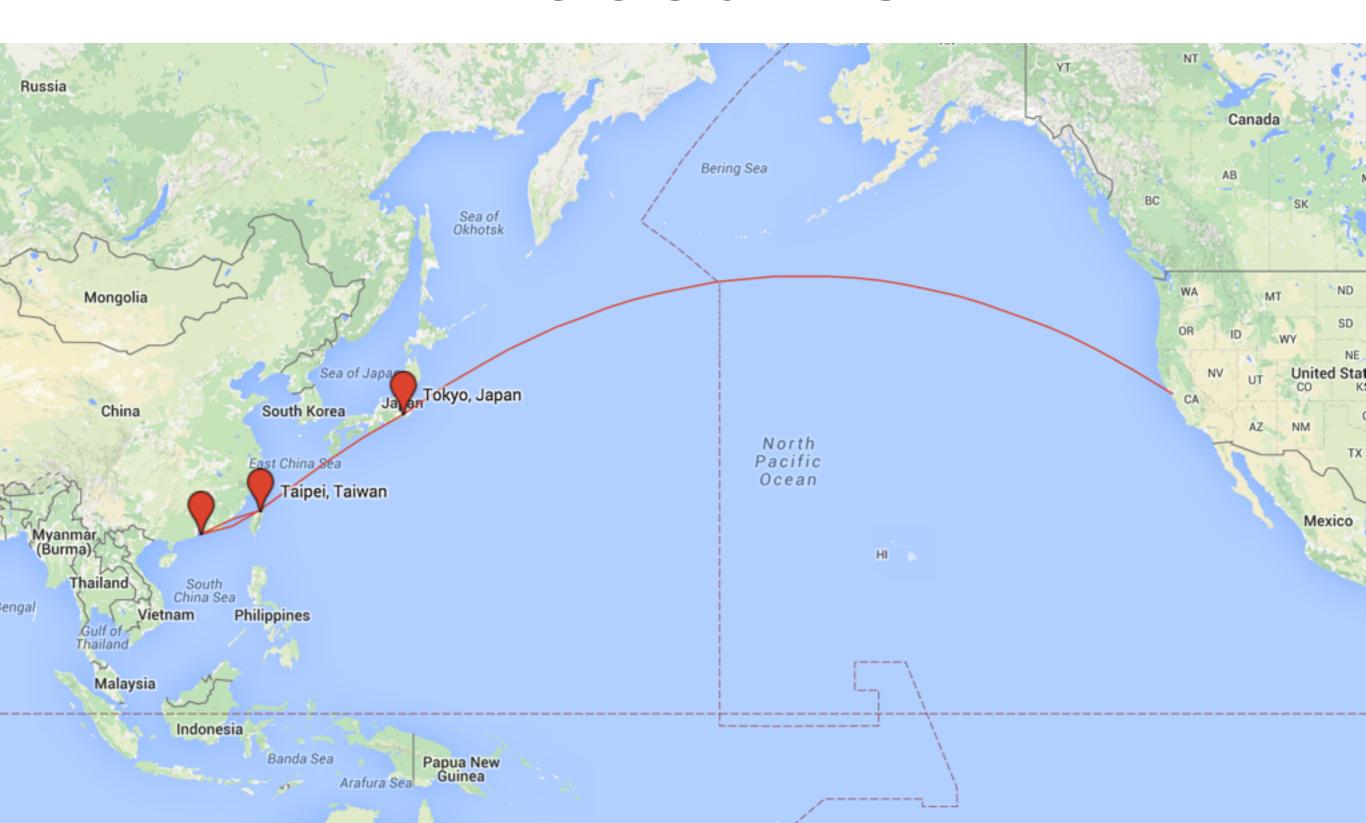
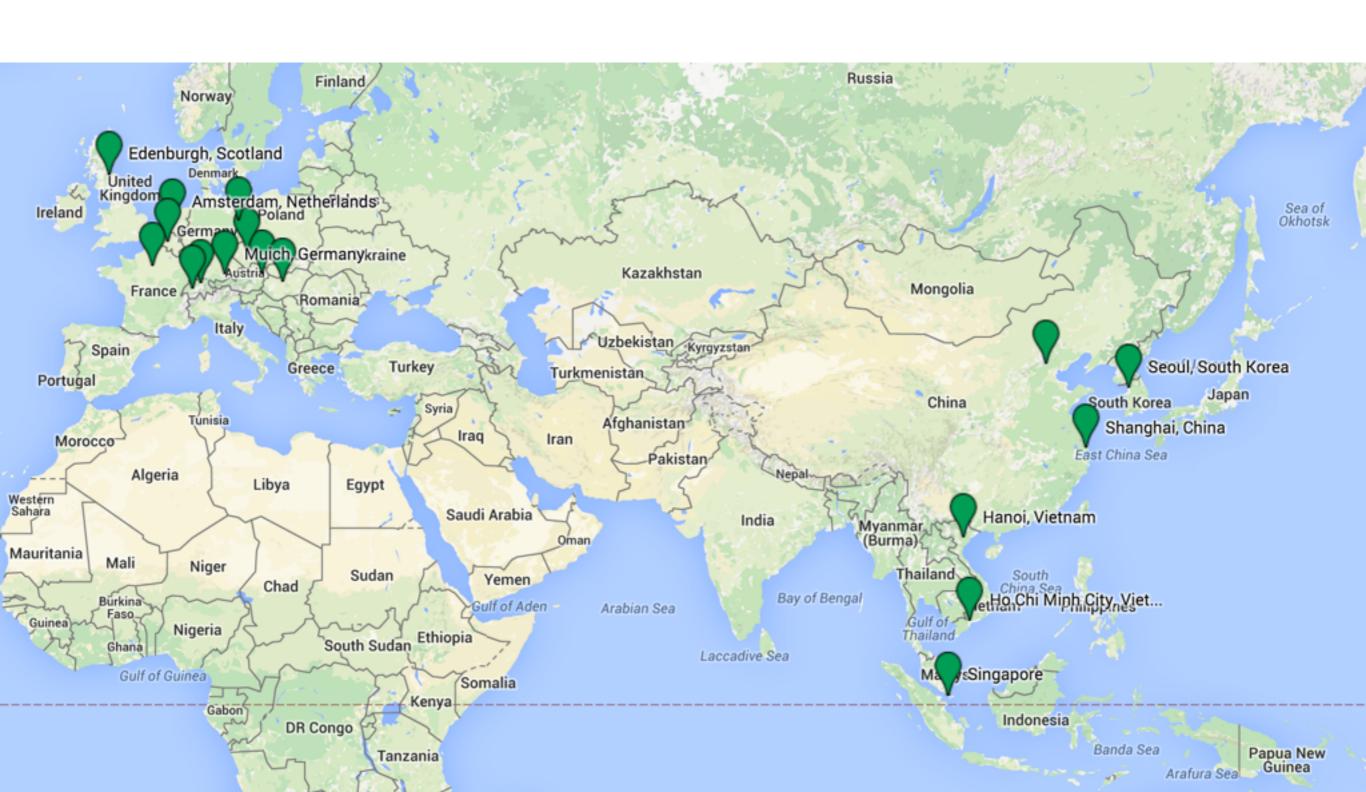
# Ember Addons: Served Three Ways

Mike North Global Ember Meetup - Ember Components Day 12/5/2015



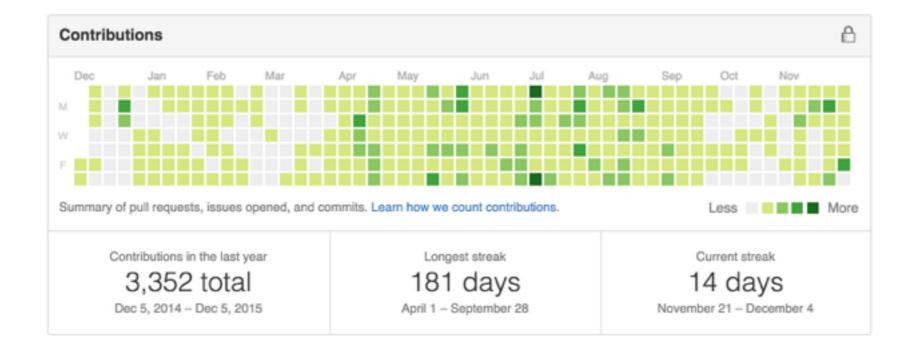




I'm coming to somewhere near you

- Twitter: <u>@MichaelLNorth</u>
- LinkedIn: Mike North
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- LINE: mike\_north

- Job.old = "UI Architect, Yahoo Ads & Data"



### Ember Addons

- A first-class citizen of the ember ecosystem
- Powerful & flexible abstractions at multiple levels
- Catalyst for adoption and community WHY?

## Served Three Ways



Encapsulate components & modules



Modify build pipeline



Add a new command to ember-cli

## Some Disclaimers

- I'm not talking about pods today
- We're still in NPM v0.12 land
- These are tips for getting started with basic use cases, not comprehensive instructions

- Pattern for addon configuration
- Best practices
- Testing
- Add-on Dependencies

#### CONFIGURATION

- configuration/environment.js is where parameters belong
  - This is injected into a <meta> as part of the build process
- Anything embery should access config via an Ember. Service

#### BEST PRACTICES

- Assume no prototype modifications
- JSHint & JSCS (via ember-suave)
- Minimize dependencies, and consider compatibility
- Documentation
- Test against beta and canary!

#### **TESTING**

- Demo app is great for acceptance testing
- Continuous integration (i.e., travis-ci)
  - Test against multiple framework versions w/ ember-try
- Measuring test coverage is possible (sort of!)

#### **PUBLISHING**

publish to npm

npm publish

- add a demoURL to your package.json
- Hook up testing and continuous deploy to github pages via travis-ci

ember install ember-cli-github-pages

Protect master brach

## A simple component

Find me on twitter: <a><u>@MichaelLNorth</u></a>

```
{{x-twitter username="MichaelLNorth"}}
```

ember addon ember-twitter

addon name

## A simple component

IF your add-on involves templates, these are compiled at BUILD TIME

ember-cli-htmlbars

devDependency —> dependency

## A simple component

- App vs Addon folder
- Resolver considerations
- ember-cli-build.js is just for your demo app!
- Blueprints
  - Default blueprint

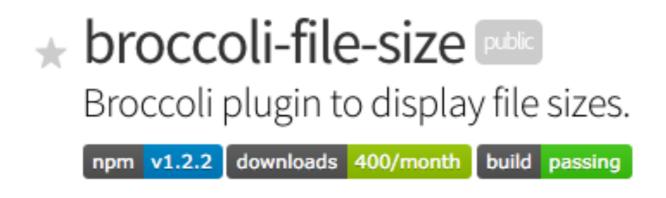
./index.js

included hook lets you register plugins for filetypes

ember addon ember-js-filesize

```
dummy/app.js => 650 B (302 B gzipped)
dummy/router.js => 311 B (193 B gzipped)
dummy/templates/application.js => 1.45 kB (556 B gzipped)
dummy/initializers/app-version.js => 433 B (227 B gzipped)
dummy/initializers/export-application-global.js => 1.01 kB (413 B gzipped)
dummy/controllers/array.js => 141 B (124 B gzipped)
dummy/controllers/object.js => 142 B (126 B gzipped)
dummy/components/app-version.js => 468 B (224 B gzipped)
dummy/tests/test-helper.js => 231 B (161 B gzipped)
```

Start with a broccoli plugin



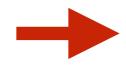
Broccoli plugin to display file sizes. Example output:

```
> broccoli build dist

file1.txt => 446 kB (284 kB gzipped)
file2.txt => 223 kB (74 kB gzipped)
file3.txt => 543 kB (324 B gzipped)
```

#### Make a broccoli filter subclass

```
var Filter = require('broccoli-filter');
var fileSize = require('broccoli-file-size');
FileSizePlugin.prototype = Object.create(Filter.prototype);
FileSizePlugin.prototype.constructor = FileSizePlugin;
function FileSizePlugin() {
  Filter.call(this, '', {});
FileSizePlugin.prototype.toTree = function(
  tree, inputPath, outputPath, inputOptions
  return fileSize(tree, {
  colors: true
```



Modify the addon to use the filter for .js files

#### Try it

```
ember s
```

```
version: 1.13.12
Livereload server on http://localhost:49152
Serving on http://localhost:4200/
dummy/app.js => 650 B (302 B gzipped)
dummy/router.js => 311 B (193 B gzipped)
dummy/templates/application.js => 1.45 kB (556 B gzipped)
dummy/initializers/app-version.js => 433 B (227 B gzipped)
dummy/initializers/export-application-global.js => 1.01 kB (413 B gzipped)
dummy/controllers/array.js => 141 B (124 B gzipped)
dummy/controllers/object.js => 142 B (126 B gzipped)
dummy/components/app-version.js => 468 B (224 B gzipped)
dummy/tests/test-helper.js => 231 B (161 B gzipped)
dummy/tests/helpers/destroy-app.js => 224 B (162 B gzipped)
dummy/tests/helpers/module-for-acceptance.js => 848 B (350 B gzipped)
dummy/tests/helpers/resolver.js => 421 B (218 B gzipped)
dummy/tests/helpers/start-app.js => 673 B (319 B gzipped)
Build successful - 3726ms.
                                             2924ms
Slowest Trees (cumulative)
ConcatWithMaps: Concat: Vendor (1)
                                             2924ms
```

```
tester — northm@Mikes-MBP — ..ts-day/tester — -zsh
// ~/Development/talks/ember-components-day/tester // master • ember build
version: 1.13.12
Building..tester/app.js => 656 B (302 B gzipped)
tester/router.js => 315 B (192 B gzipped)
tester/templates/application.js => 1.46 kB (555 B gzipped)
tester/initializers/app-version.js => 438 B (226 B gzipped)
tester/initializers/export-application-global.js => 1.01 kB (413 B gzipped)
tester/controllers/array.js => 142 B (126 B gzipped)
tester/controllers/object.js => 143 B (126 B gzipped)
tester/components/app-version.js => 473 B (223 B gzipped)
Building...tester/tests/test-helper.js => 235 B (159 B gzipped)
tester/tests/helpers/destroy-app.js => 225 B (161 B gzipped)
tester/tests/helpers/module-for-acceptance.js => 855 B (349 B gzipped)
tester/tests/helpers/resolver.js => 426 B (219 B gzipped)
tester/tests/helpers/start-app.js => 680 B (317 B gzipped)
Built project successfully. Stored in "dist/".
~/Development/talks/ember-components-day/tester > / master • > |
```

#### Installation

ember install ember-slack

#### Usage

ember slack --channel Product "Deployed new version"

#General: Deployed new version

./index.js

```
module.exports = {
  name: 'ember-slack',
  includedCommands: function() {
    return {
      slack: {
        name: 'slack',
        description: 'Send a slack message',
        works: 'insideProject',
        anonymousOptions: [],
        availableOptions: [],
        run: function(commandOptions, rawArgs) { }
```

#### **OPTIONS**

```
// Un-named options
anonymousOptions: [
   '<message>'
],
// Named options
availableOptions: [{
    name: 'channel',
    type: String,
    default: 'general'
}],
```

#### **OPTIONS**

```
run: function(commandOptions, rawArgs) {
  var channel = commandOptions.channel;
  var message = rawArgs[0];
  console.log("-----\n" +
    "#" + channel + ":\t" + message);
}
```

try it!



## Representative Examples

#### BY TYPE

Pre-packaged modules	ember-moment, ember-truth-helpers, ember-cpm, ember-cli-materialize, ember-api-actions
Build pipeline mods	ember-cli-sass, ember-suave
Ember commands	ember-try, ember-cli-deploy, ember-cli-github- pages

## Representative Examples

#### OTHER IMPORTANT EXAMPLES

ember-cli-flash	customizable configuration, with default value management
ember-perf	support for wide range of framework versions (canary >= ember > 1.6.0)
ember-lodash	shim ES6 node library for ember apps
ember-cpm	complex blueprint
ember-truth-helpers	elegant support for legacy and current helper API



mike-north/ember-addons-three-ways