



# DISCLAIMER

1. The problems I want to solve might not be the problems you want to solve.
2. I have tools at my disposal that you might not (e.g. Github Enterprise).
3. I haven't had a chance to look at jspm.



**substack**

@substack



Following

@cjno @rvagg bower is such a fucking cancer



RETWEETS

6

FAVORITES

7



8:34 PM - 16 May 2014

```
159 $ bower install
160 bower not-cached https://github.com/wrumsby/a.git#^1.0.0
161 bower resolve https://github.com/wrumsby/a.git#^1.0.0
162 bower not-cached https://github.com/wrumsby/b.git#~1.0.0
163 bower resolve https://github.com/wrumsby/b.git#~1.0.0
164 bower not-cached git://github.com/jrburke/requirejs-bower.git#~2.1.18
165 bower resolve git://github.com/jrburke/requirejs-bower.git#~2.1.18
166 bower download https://github.com/jrburke/requirejs-bower/archive/2.1.18.tar.gz
167 bower checkout b#1.0.0
168 bower checkout a#1.0.0
169 bower extract requirejs#~2.1.18 archive.tar.gz
170 bower invalid-meta requirejs is missing "ignore" entry in bower.json
171 bower resolved git://github.com/jrburke/requirejs-bower.git#2.1.18
172 bower resolved https://github.com/wrumsby/b.git#1.0.0
173 bower not-cached git://github.com/wrumsby/kingDOM.git#~2.0.0
174 bower resolve git://github.com/wrumsby/kingDOM.git#~2.0.0
175 bower resolved https://github.com/wrumsby/a.git#1.0.0
176 bower not-cached git://github.com/wrumsby/kingDOM.git#^1.0.1
177 bower resolve git://github.com/wrumsby/kingDOM.git#^1.0.1
178 bower download https://github.com/wrumsby/kingDOM/archive/1.0.1.tar.gz
179 bower download https://github.com/wrumsby/kingDOM/archive/2.0.0.tar.gz
180 bower extract king-dom#^1.0.1 archive.tar.gz
181 bower extract king-dom#~2.0.0 archive.tar.gz
182 bower resolved git://github.com/wrumsby/kingDOM.git#1.0.1
183 bower resolved git://github.com/wrumsby/kingDOM.git#2.0.0
184 bower ECONFLICT Unable to find suitable version for king-dom
185
186 The command "bower install" failed and exited with 1 during .
187
188 Your build has been stopped.
```

**That's the point!**

# Nested vs. Flat

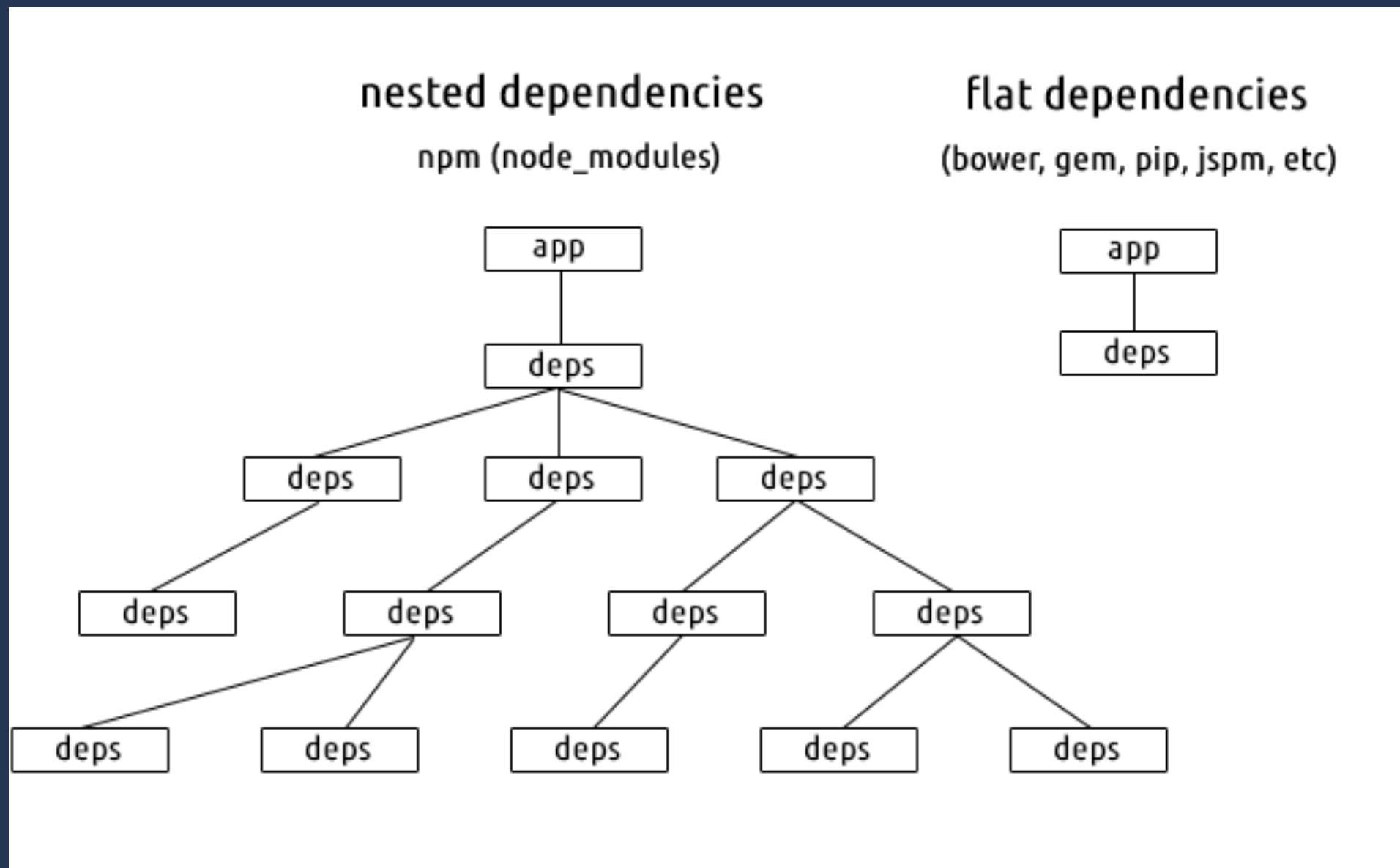


Image by Max Ogden from [Nested Dependencies](#)

# Lots of little modules

In the style of substack: how I write modules, *but* for the browser.

Who is doing this?







**var self = this;** @wrumbsby · May 17

@rob\_dodson @addyosmani Q: do you see @polymer moving away from @bower any time soon? Not that I'm asking for this, more that I think...



**var self = this;** @wrumbsby · May 17

@rob\_dodson @addyosmani ... that @polymer's needs are a strong argument \*for\* @bower.





**Rob Dodson**

@rob\_dodson



Following

@wrumbsby @addyosmani @polymer @bower  
i'd like to explore getting similar package  
deduping behavior to work in npm but it isn't  
there atm



FAVORITES

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5:46 AM - 18 May 2015



**Addy Osmani**

@addyosmani



Following

@wrumbsby Long-term I agree with @rob\_dodson that we'd love to support a strong story for using @polymer with npm too. Maybe post-npm3.



FAVORITE

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6:38 AM - 18 May 2015

# The Problem With npm

*According to npm.*

npm and front-end packaging:

1. node\_modules isn't arranged the way front-end packages need it to be
2. Front-end dependencies have different conflict-resolution needs

# The Other Problem With npm

<https://github.com/npm/npm/issues/3328>

TL;DR: If you want to use version ranges for npm packages  
*you need* to put them in a registry.

# bower install

- `jquery` (registered package)
- `git@github.com:user/package.git` (or `https/svn`)
- `git+ssh://git@github.com/user/package` (or `https/svn`)
- `user/package` (shorthand) \*
- `http://example.com/script.js`
- `http://example.com/package.zip` (or `.tar`)

# Configuration

.bowerrc

```
{
  "directory": "components",
  "shorthand-resolver": "git://example.com/{{shorthand}}.git",
  "tmp": "/.bower/tmp",
  "storage": {
    "packages": "/.bower/packages"
  },
  "scripts": {
    "postinstall": "grunt bower_postinstall"
  }
}
```

BTW scripts are for Bower Hooks - preinstall, postinstall, uninstall

# Workflows

- `bower update`
- `bower link`
- `"shrinkwrap"` (soon?)
- `bower info <package>`
- `bower list`
- `dist vs. source`



# Bower @ Xero

- Package manager for front-end modules
- Including sass partials (e.g. shared variables)
- Recommendation on when to use Bower and when to use npm
- *Lots of little modules*

Bower is better for us ATM.

# Live Demos

This might go awfully wrong

# Registries

- [bower/registry](#)
- [private-bower](#)
- and others on npm
- [Artifactory Pro](#)

# Bower and CI

Make sure you do this:

```
env.CI=true
```

Travis and some other CI systems do this by default

# The Future

package.json

```
...  
"dependencies": {  
  ...  
},  
"devDependencies": {  
  ...  
},  
"browserDependencies": {  
  ...  
},  
...
```

[npm ⇔ Angular brainstorming session](#) / [npm ⇔ Polymer brainstorming session](#)

