MANAGING WEBSITE DEPENDENCIES COMPOSER, BOWER, AND YOU!

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Solution: a Password Manager

(LastPass, OnePassword, and etc.)

WEBSITE COMPLEXITY

1997

- tables
- frames
- CGI



, He

Hey, look here! I r

2015

- HTML5
- CSS3
- JavaScript
- PHP, Rails, ASP.NET, JSP, Node, and etc.
- jQuery, Angular
- Bootstrap, Foundation
- Monolog, Guzzle, Swiftmailer, Symfony, Laravel
- WordPress, Drupal, Joomla

GITHUB

> 6 million repositories

PACKAGIST

(PHP)

~60,000 packages

BOWER

(HTML / CSS / JAVASCRIPT)

~26,000 packages

(note: check the license)



TRADITIONALLY

Search > Download Zip > Project



Solution: a Dependency Manager

EXAMPLE PROJECT

LDAP lookup of UTD People

- 1. basic page
- 2. secure LDAP connection info
- 3. connect
- 4. search
- 5. make pretty

STEP 1: BASIC SETUP

index.php

search.js

search.php

styles.css

PHP DEPENDENCIES

Step 2: Hiding credentials / configuration with *phpdotenv*



Submit Package

Search packages...

☆ vlucas/phpdotenv

environment env dotenv



Loads environment variables from `.env` to `getenv()`, `\$_ENV` and `\$_SERVER` automagically.

Maintainer: vlucas

Homepage: github.com/vlucas/phpdotenv

Canonical: https://github.com/vlucas/phpdotenv.git

https://github.com/vlucas/phpdotenv/tree/master Source:

https://github.com/vlucas/phpdotenv/issues Issues:

927 881 installs Overall:

30 days: 222 795 installs

1 116 installs Today:

2015-02-10 20:27 LITC



COMPOSER

GETCOMPOSER.ORG

a PHP dependency manager

"composer search phpdotenv"

"composer require vlucas/phpdotenv"

```
Idap-search
▼ public
     index.php
     search.js
     search.php
     styles.css
▼ vendor
    composer

▼ vlucas

     ▶ phpdotenv
     autoload.php
  .env
  .gitignore
  composer.json
  composer.lock
```

LDAP

Step 3: Pull in a PHP LDAP package

"composer require adldap2/adldap2"

Step 4: Code the search

FRONT-END DEPENDENCIES

Step 5: Make it pretty with Bootstrap



BOWER.IO

a Front-End dependency manager

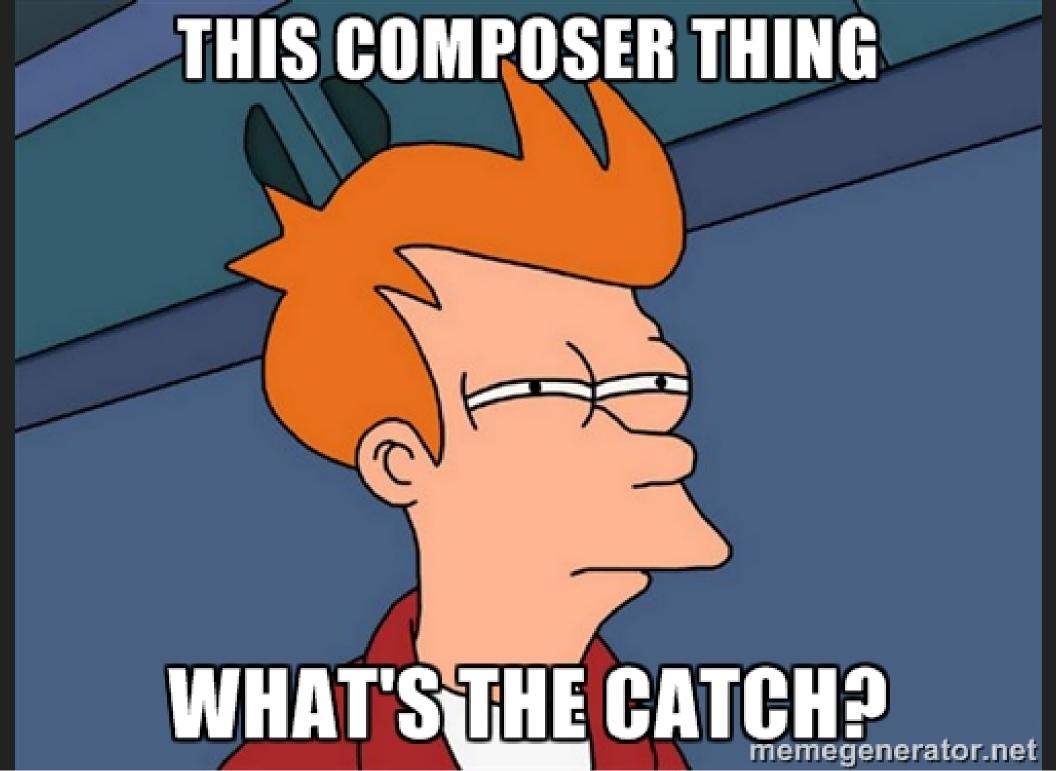
"bower init"

"bower install bootstrap -config.directory=public/vendor --save"



ADVANTAGES

- SoC: Separation of Concerns
- Efficiency: Save time coding, installing, configuring, upgrading
- Accountability: Control over component sources & versions
- Reusability: Shared common resources
- Maintainability: Simplified version control



POSSIBLE PITFALLS

- Extra tools (composer, bower) required
- Look at the code
- Dependency integrity
- Dependency longevity
- Added complexity
- Proper fit for the need

IF BOWER MANAGES DEPENDENCIES,



THE END

github.com/wunc/dependency-presentation

CAN BOWER UNINSTALL MY COFFEE HABITP

memegenerator.net