

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

The logo for Wunstown, featuring the word "Wunstown" in a blue, stylized, gothic-style font. The text is enclosed within a white rectangular border.

-
-
-

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

**ONE DOES NOT
SIMPLY**

UPGRADE WITH UNZIP

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*



Packagist

The PHP package archivist.

Submit Package

Search packages...

☆
vlucas/phpdotenv
📄

environment

env

dotenv

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

Maintainer: vlucas

Homepage: github.com/vlucas/phpdotenv

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

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

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

Overall:	927 881 installs
30 days:	222 795 installs
Today:	1 116 installs



COMPOSER

[GETCOMPOSER.ORG](https://getcomposer.org)

a PHP dependency manager

```
“composer search phpdotenv”
```

```
“composer require vlucas/phpdotenv”
```

▼ ldap-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”*

MADE



ALL THE WEBS!

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

THIS COMPOSER THING



WHAT'S THE CATCH?

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
HABIT?**

memegenerator.net