

**GOODBYE DRUSH MAKE,
HELLO COMPOSER**

@opdavies

<https://www.oliverdavies.uk>

**DRUSH MAKE IS DEAD,
LONG LIVE COMPOSER**

@opdavies

<https://www.oliverdavies.uk>







OPDAVIES

- Full Stack Web Developer, System Administrator
- Drupal, Symfony, Laravel
- Senior Developer at Microserve
- Acquia certified Drupal 8 Grand Master
- Drupal 7 and 8 core contributor
- Maintainer of Drupal modules and PHP libraries
- PHPSW and Drupal Bristol organiser

GOAL #1

**DRUPAL PEOPLE: USE
COMPOSER**

GOAL #2

PHP PEOPLE: (RE-
)CONSIDER DRUPAL

DRUPAL

- PHP content management framework
- Open source
- Modular
- Distributions
- Mostly procedural code prior to D8
- D8 "got off the island"
- "Proudly found elsewhere" rather than "Not invented here"

DRUPAL 8 IS

AWESOME!

DRUSH

DRUPAL SHELL

OPTION #1

**DOWNLOAD ALL
THE THINGS**

DOWNLOAD ALL THE THINGS

- Download .zip or .tar.gz files from Drupal.org
- Download modules using "drush dl"
- Everything in one repository
- Easiest to set up, most difficult to maintain
- Core, contrib code in your project repository

OPTION #2

DRUSH MAKE

DEFINE YOUR PROJECT AS CODE
USED FOR CREATING RE-USABLE
DISTRIBUTIONS

```
; drupalbristol.make
```

```
api = 2
```

```
core = 7.x
```

```
projects[drupal][type] = "core"
```

```
projects[drupal][version] = "7.51"
```



```
; drupalbristol.make
```

```
api = 2
```

```
core = 7.x
```

```
projects[drupal][type] = "core"
```

```
projects[drupal][version] = "7.51"
```

```
projects[pathauto] = "1.3"
```

```
; drupalbristol.make
```

```
api = 2
```

```
core = 7.x
```

```
projects[drupal][type] = "core"
```

```
projects[drupal][version] = "7.51"
```

```
projects[pathauto][version] = "1.3"
```

```
projects[pathauto][subdir] = "contrib"
```

```
projects[pathauto][patch][ ] = "..."
```

```
$ drush make drupalbristol.make build
```

```
Beginning to build drupalbristol.make.  
drupal-7.51 downloaded.  
pathauto-7.x-1.3 downloaded.
```

```
$ drush make drupalbristol.make build
```

```
Base path build already exists.
```

```
exit 1
```

DRUSH MAKE LIMITATIONS

- Drupal specific
- Need to use multiple repositories
- Can't update an existing build
- Need to "compile"
- Need to define specific versions

NOT A DEPENDENCY MANAGER

**IF YOU'RE NOT USING A
DEPENDENCY MANAGER, YOU ARE THE
DEPENDENCY MANAGER**

DRUSH MAKE DEMO

**DRUSH MAKE REMOVED
FROM DRUSH 9 IN
FAVOUR OF COMPOSER**

OPTION #3

COMPOSER



COMPOSER

- Dependency manager for PHP
- Downloads packages into a vendor directory
- Downloads packages from one or more repositories
- Able to ignore core, contrib, vendor code
- Able to provide minimum required versions

```
$ composer require silex/silex
```

```
...
```

- Installing pimple/pimple (v3.0.2)
 Downloading: 100%
- Installing silex/silex (v2.0.4)
 Downloading: 100%

COMPOSER.JSON

```
{  
  "require": {  
    "silex/silex": "^2.0"  
  }  
}
```

COMPOSER IN DRUPAL

- Dependency management and autoloading in Drupal 8 (no included vendor directory since 8.1.x)
- Not included with Drupal 7 (Composer Manager, Xautoload, Libraries modules in contrib)

BUILDING DRUPAL WITH COMPOSER

Use **drupal/drupal** from Packagist

or

Use the **drupal-composer/drupal-project** template

```
$ composer create-project \  
drupal/drupal \  
my_site_name ^8.4 --no-dev
```

```
$ composer create-project \  
drupal-composer/drupal-project:8.x-dev \  
my_site_name-dir \  
--stability dev \  
--no-interaction
```

COMPARISON

- drupal/drupal is a minimum setup, no extras, uses the repo root as the docroot
- drupal-composer/drupal-project includes installer paths, scaffold files, Drush, Drupal Console
- drupal-composer/drupal-project available for Drupal 7 and Drupal 8

MANAGING CONTRIB DEPENDENCIES

```
$ composer config \
repositories.drupal composer \
https://packages.drupal.org/8
```

```
{
  "repositories": {
    "drupal": {
      "type": "composer",
      "url": "https://packages.drupal.org/8"
    }
  }
}
```

CONFIGURING PATHS

```
{
  "extra": {
    "installer-paths": {
      "modules/contrib/{$name}": [ "type:drupal-module" ],
      "modules/custom/{$name}": [ "type:drupal-custom-module" ],
      "profiles/contrib/{$name}": [ "type:drupal-profile" ],
      "themes/contrib/{$name}": [ "type:drupal-theme" ],
      "themes/custom/{$name}": [ "type:drupal-custom-theme" ]
    }
  }
}
```


ADDING MODULES

```
$ composer require drupal/pathauto:^1.0
```

```
...
```

- Installing drupal/token (1.0.0-beta2)
 Downloading: 100%
- Installing drupal/ctools (3.0.0-alpha27)
 Downloading: 100%
- Installing drupal/pathauto (1.0.0-beta1)
 Downloading: 100%

ADDING MODULES WITH DEPENDENCIES

```
$ composer require drupal/address:^1.0
```

```
...
```

```
- Installing commerceguys/addressing (v1.0.0-beta1)  
  Downloading: 100%
```

```
...
```

```
- Installing drupal/address (1.0.0-rc3)  
  Downloading: 100%
```

ADDING THEMES

```
$ composer require drupal/omega:^5.0
```

PATCHING

```
$ composer require cweagans/composer-patches
```

PATCHING

```
{
  "extra": {
    "patches": {
      "drupal/drupal": {
        "Add startup configuration for PHP server":
          "https://www.drupal.org/files/issues/1543858-30.patch"
      }
    }
  }
}
```

UPDATING

INSTALL VS UPDATE

"install" updates local code with versions defined in composer.lock

"update" updates composer.lock with the latest available versions

```
$ composer update \  
--with-dependencies
```

```
$ composer install --no-dev \  
--optimize-autoloader
```


COMPOSER DEMO

A REAL EXAMPLE

The screenshot shows a web browser window displaying the GitHub repository page for `drupalbristol/drupal-bristol-website`. The browser's address bar shows the URL `https://github.com/drupalbristol/drupal-bristol-website`. The repository page includes navigation links for `Pull requests`, `Issues`, and `Gist`. It also shows repository statistics: `Unwatch` (1), `Star` (0), and `Fork` (1). Below these are links for `Code`, `Issues` (2), `Pull requests` (0), `Projects` (0), `Pulse`, `Graphs`, and `Settings`. The main content area shows the URL `https://www.drupalbristol.org.uk` with an `Edit` link. A summary bar indicates `54 commits`, `1 branch`, `0 releases`, and `1 contributor`. Below this is a table of recent commits by user `opdavies`, including files like `config/sync`, `scripts/composer`, `web`, `.gitignore`, `composer.json`, and `composer.lock`. At the bottom, there is a prompt to `Add a README`.

drupalbristol/drupal-bristol-we x Oliver

<https://github.com/drupalbristol/drupal-bristol-website>

This repository Search Pull requests Issues Gist

drupalbristol / drupal-bristol-website Unwatch 1 Star 0 Fork 1

<> Code Issues 2 Pull requests 0 Projects 0 Pulse Graphs Settings

<https://www.drupalbristol.org.uk> — Edit

54 commits 1 branch 0 releases 1 contributor

Branch: master New pull request Create new file Upload files Find file Clone or download

opdavies Empty commit Latest commit cfbcb5c on Sep 26

config/sync	Export config	2 months ago
scripts/composer	Use Composer	4 months ago
web	Add placeholder sites.php	2 months ago
.gitignore	Use Composer	4 months ago
composer.json	Add dev modules	2 months ago
composer.lock	Add dev modules	2 months ago

Help people interested in this repository understand your project by adding a README. Add a README

DRUPAL IS AWESOME

COMPOSER IS AWESOME

**MORE MODULES AND
DISTRIBUTIONS ARE
MOVING TO COMPOSER**

**ENFORCES BEST PRACTICE
AND INCREASES
CONTRIBUTION**

RESOURCES

- <https://getcomposer.org>
- <http://symfony.com/projects/drupal>
- <https://www.drupal.org/docs/develop/using-composer/using-composer-to-manage-drupal-site-dependencies>
- <https://github.com/drupal-composer/drupal-project>

QUESTIONS?

JOIND.IN/23316

THANKS

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