

Goodbye Drush Make. Hello
Composer!



\$ drush make drupalbristol

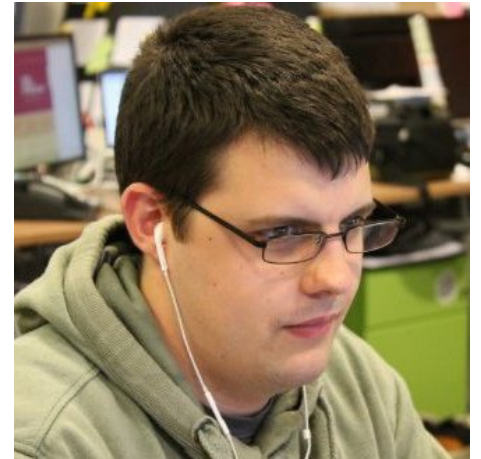
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Also...

- Former Drupal Association employee
- Drupal 7 and 8 core contributor and mentor
- Co-organiser of Drupal Bristol, SWDUG and PHPSW
- Co-founder and co-organiser of DrupalCamp Bristol
- Symfony/Silex/Laravel hobbyist

The "Old" Ways

Monolith repository

- Everything in one repository
- Easiest to set up, most difficult to maintain
- Core, contrib code in your repository

Drush Make

- Define your site as code
- Automated updates, patching

Drush Make

- Drupal specific
- Multiple repositories
- Can't update an existing build
- Need to "compile"

drupalbristol.make

```
api = 2
```

```
core = 7.x
```

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

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

drupalbristol.make

```
api = 2
```

```
core = 7.x
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```
projects[drupal][type] = "core"
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```
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][ ] = "..."
```

Building

```
$ drush make drupalbristol.make some-dir
```

```
Beginning to build drupalbristol.make.
```

```
drupal-7.51 downloaded.
```

```
pathauto-7.x-1.3 downloaded.
```

Building

```
$ drush make drupalbristol.make some-dir
```

```
Base path some-dir already exists.
```

```
exit 1
```

Composer

Composer

- Dependency manager for PHP
- Downloads packages into a vendor directory
- Downloads packages from one or more repositories
- Generates `composer.json` and `composer.lock`



Adding Packages

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

```
...
```

```
- Installing pimple/pimple (v3.0.2)  
  Downloading: 100%
```

```
- Installing silex/silex (v2.0.4)  
  Downloading: 100%
```

```
Writing lock file
```

```
Generating autoload files
```


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 and xautoload in contrib)

Building Drupal with Composer

Building Drupal with Composer

- Use `drupal/drupal` from Packagist
- Use the `drupal-composer/drupal-project` template

```
$ composer create-project \  
drupal/drupal \  
my_site_name ^8.2 --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

Add Drupal.org as a repository

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

composer.json

```
{
  "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

composer install vs update

- "install" updates local code with versions defined in `composer.lock`
- "update" updates `composer.lock` with the latest available versions

Updating

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

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

Updating

- Update the versions in `composer.lock`
- Deploy new version to the server
- Update local versions with `composer install`

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 a search bar, navigation links for Pull requests, Issues, and Gist, and a header with repository statistics: 1 Unwatch, 0 Stars, and 1 Fork. Below the header, there are tabs for Code, Issues (2), Pull requests (0), Projects (0), Pulse, Graphs, and Settings. The main content area shows the repository's commit history, including 54 commits, 1 branch, 0 releases, and 1 contributor. A table lists recent commits with their descriptions and dates. At the bottom, there is a prompt to add a README file.

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

Resources

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

Questions?