LOS ANGELES
DRUPALCON 2015

DRUPALCON ★ LOS ANGELES

USING SUBTREE SPLITS TO SPREAD DRUPAL INTO EVERYTHING

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GOLF

CLARIFICATION

Drupal: Everything **except** the /core folder.

Drupal core: Everything in the /core folder.

DEPENDENCY MANAGEMENT

npmjs.com
bower.io
bundler.io

DEPENDENCY MANAGEMENT

in Drupal

```
name = Really Neat Widget
description = Provides a really neat widget for
your site's sidebar.
core = 7.x
package = Views
dependencies[] = views
dependencies[] = panels
```

COMPOSER

composer.org

Composer is a tool for dependency management in PHP.

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CONSUMERS & PROVIDERS

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DEPENDENCY MANAGEMENT

in Drupal

```
name = Really Neat Widget
description = Provides a really neat widget for
your site's sidebar.
core = 7.x
package = Views
dependencies[] = views
dependencies[] = panels
```

CONSUMERS

Projects that consume libraries via Composer

CONSUMERS

composer.json

```
{
   "require": {
      "guzzlehttp/guzzle": "~5.0"
   }
}
```

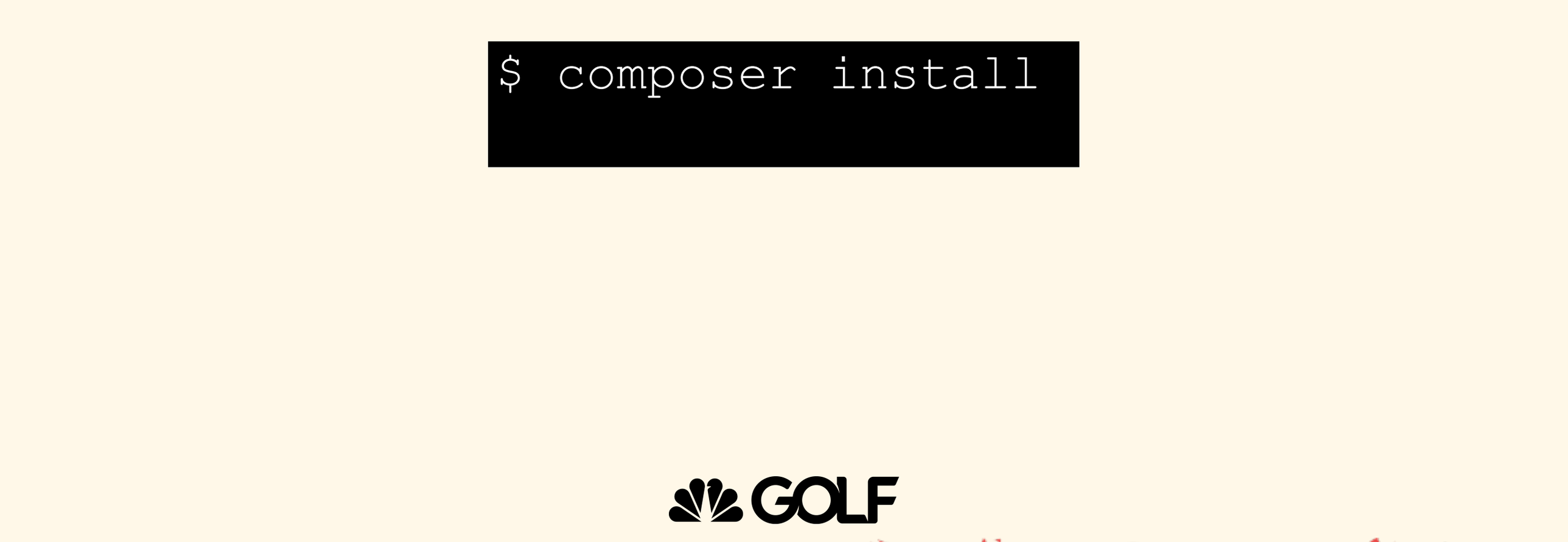
PRO-TIP

Generate (or update) composer.json

```
$ composer require guzzlehttp/guzzle ~5.0
```

DOWNLOADING DEPENDENCIES

```
$ composer install
```



DOWNLOADING DEPENDENCIES

```
Loading composer repositories with package information
Installing dependencies (including require-dev)
  - Installing react/promise (v2.2.0)
    Loading from cache

  - Installing guzzlehttp/streams (3.0.0)
    Loading from cache

  - Installing guzzlehttp/ringphp (1.0.7)
    Loading from cache

  - Installing guzzlehttp/guzzle (5.2.0)
    Loading from cache

Writing lock file
Generating autoload files
```

DOWNLOADING DEPENDENCIES

```
-rw-r--r--    composer.json
-rw-r--r--    composer.lock
drwxr-xr-x    vendor
```

LOCKING DEPENDENCIES

composer.lock

```
{
  "packages": [
    {
      "name": "guzzlehttp/guzzle",
      "version": "5.2.0",
      "source": {
        "type": "git",
        "url": "https://github.com/guzzle/guzzle.git",
        "reference": "475b29ccd411f2fa8a408e64576418728c032cfa"
      }
    }
  ]
}
```

IGNORING DEPENDENCIES

.gitignore

```
vendor/
```

AUTOLOADING

```php
<?php

require 'vendor/autoload.php';

$client = new GuzzleHttp\Client();
$response = $client->get('http://guzzlephp.org');
```

GET OFF THE ISLAND

core/composer.json

```
{
``"require": {
    "symfony/yaml": "2.6.*",
    "twig/twig": "1.18.*",
    "doctrine/common": "~2.4.2",
    "doctrine/annotations": "1.2.*",
    "guzzlehttp/guzzle": "~5.0",
    "symfony-cmf/routing": "1.3.*",
    "easyrdf/easyrdf": "0.9.*",
    "zendframework/zend-feed": "2.4.*",
    "stack/builder": "1.0.*",
    "egulias/email-validator": "1.2.*",
    "masterminds/html5": "~2.1"
  }
}
```

PROPOSAL #1

Issue #1475510

Remove external dependencies from the core repo and let Composer manage the dependencies instead

PROPOSAL #1

Issue #1475510

```
$ cd core; composer install;
```

PROPOSAL #2

Issue #2444615

Move phpunit and mink to require-dev

PROPOSAL #2

Issue #2444615

```
{
  "require": {
    "mikey179/vfsStream": "1.*",
    "stack/builder": "1.0.*",
    "egulias/email-validator": "1.2.*"
  },
  "require-dev": {
    "phpunit/phpunit": "4.4.*",
    "behat/mink": "~1.6",
    "behat/mink-goutte-driver": "~1.1",
    "fabpot/goutte": "^2.0.3",
    "masterminds/html5": "~2.1"
  }
}
```

PROPOSAL #2

Issue #2444615

```
$ cd core; composer install --no-dev;
```

PROPOSAL #3

Require Drush as a dev dependency

PROPOSAL #3

```
{
   "require-dev": {
      "drush/drush": "~7.0"
   }
}
```

PROVIDERS

Package (typically a library) that can be consumed by another package or project

PROVIDERS

composer.json

```
{
   "name": "guzzlehttp/guzzle",
}
```

PROVIDERS

composer.json

```
{
   "name": "guzzlehttp/guzzle",
   "description": "Guzzle is a PHP HTTP
client library and framework for building
RESTful web service clients"
}
```

COME TO OUR ISLAND

core/composer.json

```
{
  "name": "drupal/core",
  "description": "Drupal is an open source content
management platform powering millions of websites
and applications.",
  "type": "drupal-core"
}
```

DRUPAL CORE AS A DEPENDENCY

composer.json

```
{
   "require": {
      "drupal/core": "~8.0"
   }
}
```

COMPOSER INSTALLERS

composer.github.io/installers

A Composer plugin that installs packages of a specific type in a specific directory

DRUPAL CORE AS A DEPENDENCY

composer.json

```
{
  "require": {
    "composer/installers": "^1.0.20",
    "drupal/core": "~8.0"
  }
}
```

PROJECT TYPE

composer.json

```
{
   "type": "project"
}
```

PROJECTS & FRAMEWORKS

Project	Framework
Drupal	Drupal Core
Symfony Standard	Symfony
Laravel	Laravel Framework

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PROPOSAL #4

Issue #2385387

Permanently split Drupal and Drupal core into separate repositories

PROPOSAL #5

Issue #2352091

Create (and maintain) a subtree split of Drupal core

PROPOSAL #5

Issue #2352091

Config

PHP ★ 30 13

[READ-ONLY] Subtree split of the Symfony Config Component -- clone into Symfony/Component/ (master at symfony/symfony)

Updated 21 hours ago

Yaml

PHP ★ 151 62

[READ-ONLY] Subtree split of the Symfony YAML Component -- clone into Symfony/Component/ (master at symfony/symfony)

Updated 21 hours ago

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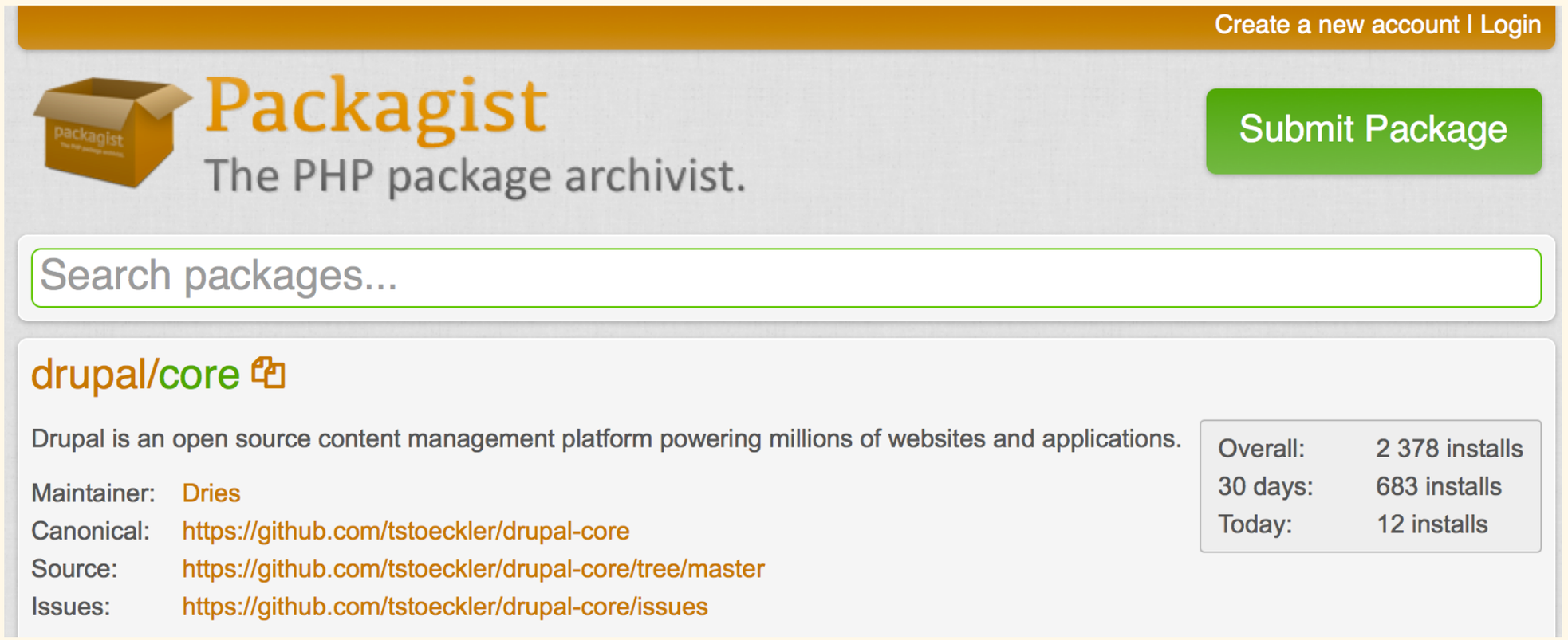
PROPOSAL #5

Issue #2352091



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PROPOSAL #5

Issue #2352091

tstoeckler / **drupal-core**
forked from RobLoach/core

Watch 5 | Unstar 5 | Fork 8

Subtree split of Drupal 8's /core directory. https://github.com/tstoeckler/drupal-core/tree/8.0.x

27,702 commits | **2** branches | **4** releases | **3** contributors

branch: **8.0.x** **drupal-core** / +

This branch is 27702 commits ahead, 3 commits behind RobLoach:master — Pull Request | Compare

Issue #2369987 by aneek, alexpott, joelpittet, rteijeiro, pgautam, ja… ···

Nathaniel Catchpole authored 2 hours ago — latest commit 02e9ed88b1

assets/vendor	Issue #2485573 by alanburke, ragnarkurm: Update JS library domready t…	2 days ago
config	Issue #1923406 by stefan.r, yannickoo, catch, Crell, amateescu, pwola…	8 days ago

Code
Issues 0
Pull requests 0
Wiki
Pulse
Graphs

PROPOSAL #6

Split each component into a read-only repository

PROPOSAL #6

core/lib/Drupal/Component/README.txt

```
Drupal Components are independent libraries that do not
depend on the rest of Drupal in order to function.

In other words, only dependencies that can be specified in a
composer.json file of the Component are acceptable
dependencies.  Every Drupal Component presents a valid
dependency, because it is assumed to contain a composer.json
file (even if it may not exist yet).
```

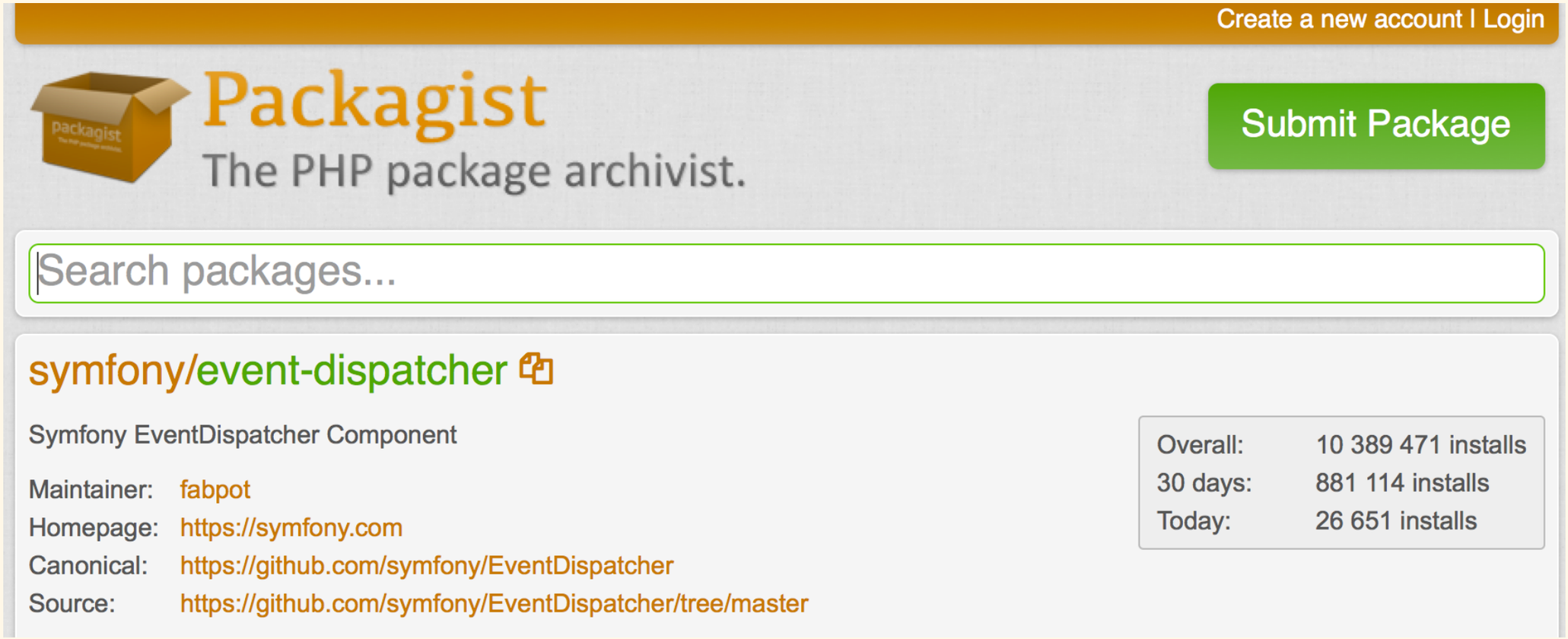
16 components are ready to be shared

PROPOSAL #6

Popular Packages

psr/log
Common interface for logging libraries
symfony/event-dispatcher
Symfony EventDispatcher Component
monolog/monolog
Sends your logs to files, sockets, inbox...
symfony/console
Symfony Console Component
symfony/yaml
Symfony Yaml Component
swiftmailer/swiftmailer
Swiftmailer, free feature-rich PHP maile...
phpunit/phpunit
The PHP Unit Testing framework.
phpunit/php-code-coverage
Library that provides collection, proces...
doctrine/inflector
Common String Manipulations with regard...
phpunit/php-token-stream
Wrapper around PHP's tokenizer extension...

PROPOSAL #6


Create a new account I Login
Packagist
The PHP package archivist.
Submit Package
Search packages...
symfony/event-dispatcher
Symfony EventDispatcher Component
Maintainer: fabpot
Homepage: https://symfony.com
Canonical: https://github.com/symfony/EventDispatcher
Source: https://github.com/symfony/EventDispatcher/tree/master
Overall: 10 389 471 installs
30 days: 881 114 installs
Today: 26 651 installs

CONTRIB

```
{
  "require": {
    "guzzlehttp/oauth-subscriber": "0.2.*"
  }
}
```

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COMPOSER MANAGER

Composer Manager

View | Version control | Revisions | Automated Testing

Posted by cpliakas on *February 27, 2013 at 3:06pm*

Composer Manager allows contributed modules to depend on PHP libraries managed via Composer.

Composer is a command line tool for installing PHP libraries and their dependencies on a per-project basis. Nowadays, all libraries are registered on Packagist and expect to be installed via Composer. See the Composer Getting started page for more information.

How does it work?

Composer expects each project (Drupal installation, in our case) to have a single composer.json file listing all required packages. Composer Manager allows each contributed module to ship with its own composer.json file, listing the module-specific requirements. It then merges the requirements of all found modules into the consolidated composer.json file. This results in a single vendor/ directory shared across all modules which prevents code duplication and version mismatches.

Maintainers for Composer Manager

bojanz – 41 commits
last: 3 weeks ago, first: 9 months ago

deviantintegral – 1 commit
last: 2 months ago, first: 2 months ago

nhoag – 2 commits
last: 4 months ago, first: 7 months ago

pcambra – 2 commits
last: 5 months ago, first: 5 months ago

cpliakas – 170 commits
last: 7 months ago, first: 2 years ago

View all committers
View commits

NBC GOLF

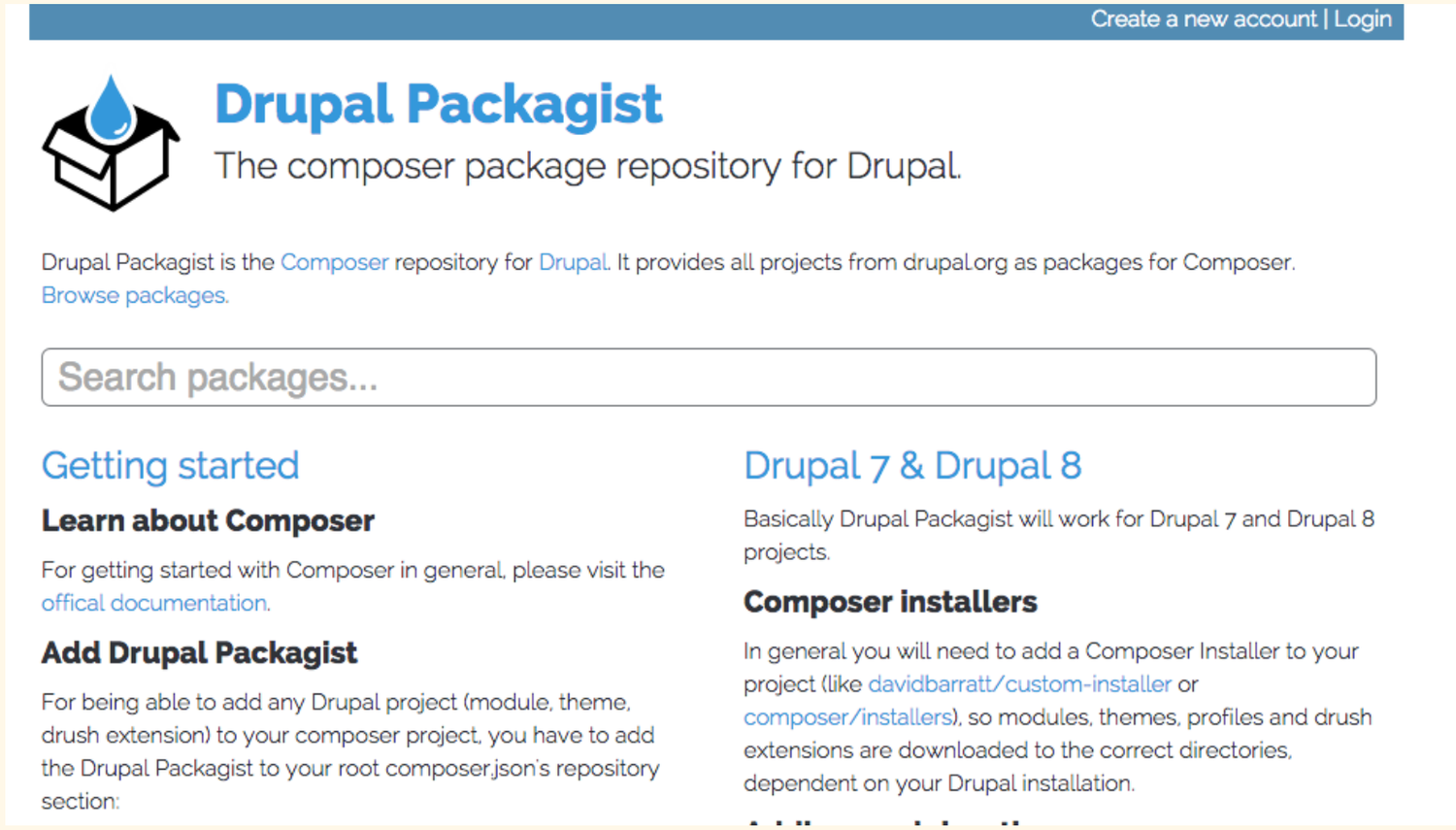
LOAD MODULE WITH COMPOSER

composer.json

```
{
   "require": {
      "drupal/really_neat_widget": "8.1.*"
   }
}
```

DRUPAL PACKAGIST

packagist.drupal-composer.com



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DRUPAL PACKAGIST

```
{
  "require": {
    "drupal/really_neat_widget": "7.1.*"
  },
  "repositories": [
    {
      "type": "composer",
      "url": "https://packagist.drupal-composer.org"
    }
  ]
}
```

PROPOSAL #6

Provide a Release Webhook & Better APIs

PROPOSAL #7

Issue #1612910

Switch to Semantic Versioning for Drupal contrib extensions (modules, themes, etc)

PROPOSAL #8

Move packagist to packagist.drupal.org

PROPOSAL #9

Allow contrib developers to define subfolders (modules or libraries) that should have subtree splits

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QUESTIONS

COMMENTS OR INSULTS

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