

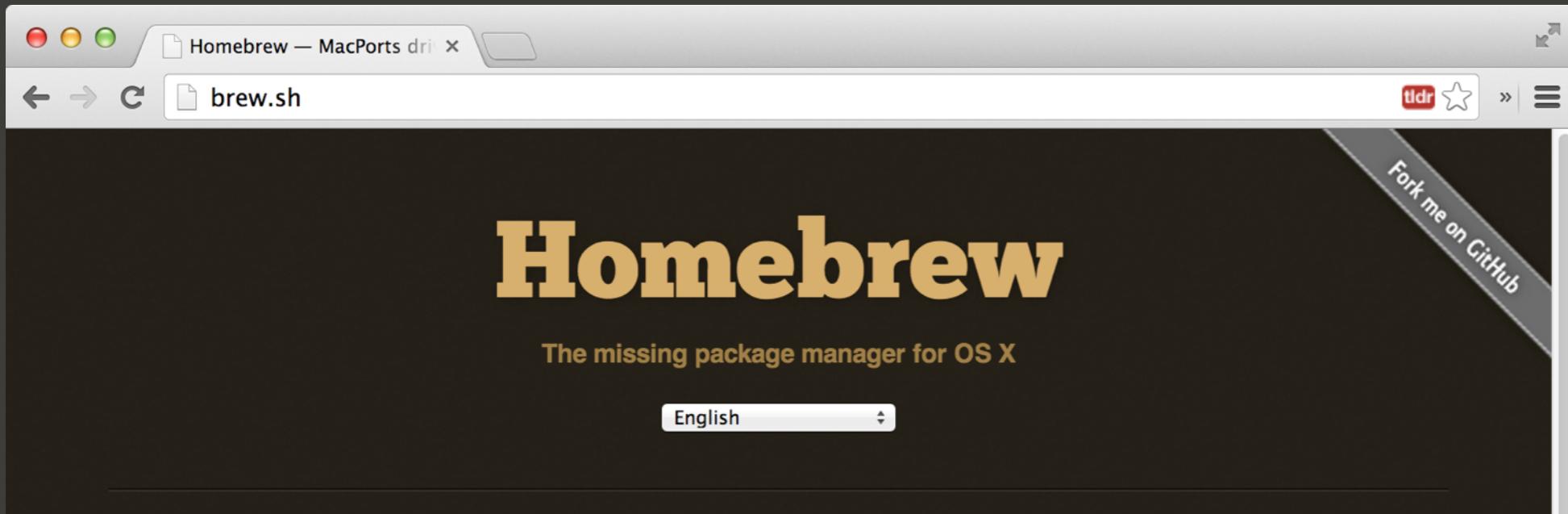
Your First Laravel App

Troy Harvey

@troyharvey

February 19th

iHub - Louisville, KY



Homebrew installs **the stuff you need** that Apple didn't.

Homebrew installs packages to their own directory and then symlinks their files into `/usr/local`.

Homebrew won't install files outside its prefix, and you can place a Homebrew installation wherever you like.

Trivially create your own Homebrew packages.

```
2. /Users/THarvey? (bash)
THarvey at macbookpro-118 in ~
+ brew list --versions
autoconf 2.69
automake 1.14
composer 1.0.0-alpha7 1.0.0-alpha8
ctags 5.8
curl 7.34.0
envoy 1.0.5
faac 1.28
ffmpeg 1.2.4
freetype 2.5.0.1 2.5.2
gdbm 1.11
gettext 0.18.3.1 0.18.3.2
git-ftp 0.9.0
htmlcompressor 1.5.3
imagemagick 6.8.7-7
jpeg 8d
lame 3.99.5
leptonica 1.69
libevent 2.0.21
libgpg-error 1.12
libksba 1.3.0
libpng 1.5.14 1.5.17
libssh2 1.4.3
libtiff 4.0.3
```



Cellar

1. Share your favorite Homebrew formulae.

2. Just run this command.

```
brew list --versions | pbcopy
```

3. And paste below.

Your Homebrew formulae

```
autoconf 2.69
automake 1.14
composer 1.0.0-alpha7 1.0.0-alpha8
ctags 5.8
curl 7.34.0
envoy 1.0.5
fribidi 1.0.2
```

Email

Submit



Cellar

1. Share your favorite Homebrew formulae.

2. Just run this command.

```
brew list --versions | pbcopy
```

3. And paste below.

```
autoconf 2.69
automake 1.14
composer 1.0.0-alpha7 1.0.0-alpha8
ctags 5.8
curl 7.34.0
envoy 1.0.5
fribidi 1.0.2
```

Submit



Cellar

Installs	Formula
43	python
40	curl
40	jpeg
32	node
32	php55
19	composer
19	ctags
19	ffmpeg
19	htmlcompressor
19	imagemagick
19	mcrypt

Laravel – The PHP framework

laravel.com

tidr

THE PHP FRAMEWORK FOR WEB ARTISANS.

PHP THAT DOESN'T HURT. CODE HAPPY & ENJOY THE FRESH AIR.

QUICKSTART LARACon 2014

```
1 /**
2  * Display the specified resource.
3  *
4  * @param int $id
5  * @return Response
6  */
7 public function show($id)
8 {
9     $post = Post::with('comments')->where('id', $id)->first();
10
11    return View::make('post.show')->with('post', $post);
12 }
```

LARAVEL

WELCOME DOCUMENTATION API GITHUB FORUMS TWITTER

Laravel
Search term

Symfony
Search term

Yii
Search term

CodeIgniter
Search term

+ Add term

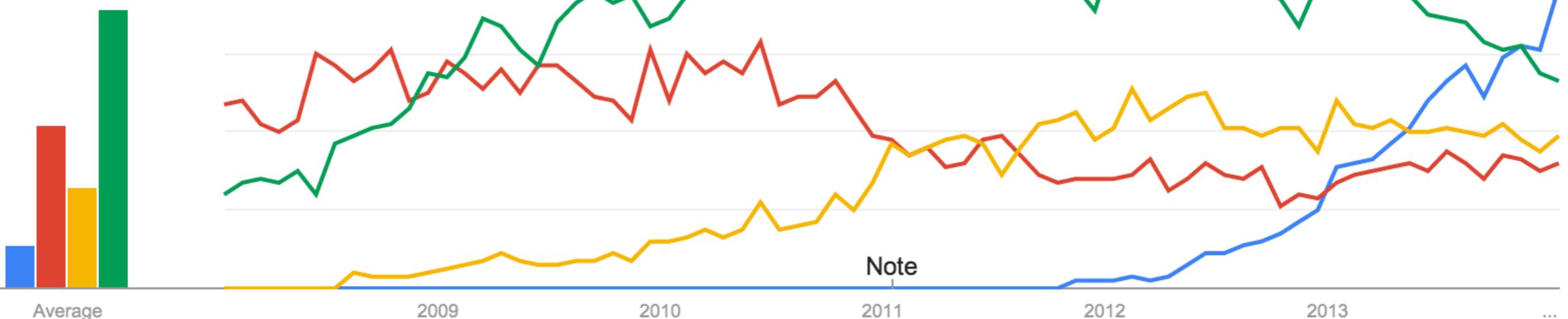
Share ▾

Interest over time



News headlines

Forecast



1. Install Homebrew

```
$ ruby -e "$(curl -fsSL https://raw.githubusercontent.com/Homebrew/homebrew/go/install)"
```

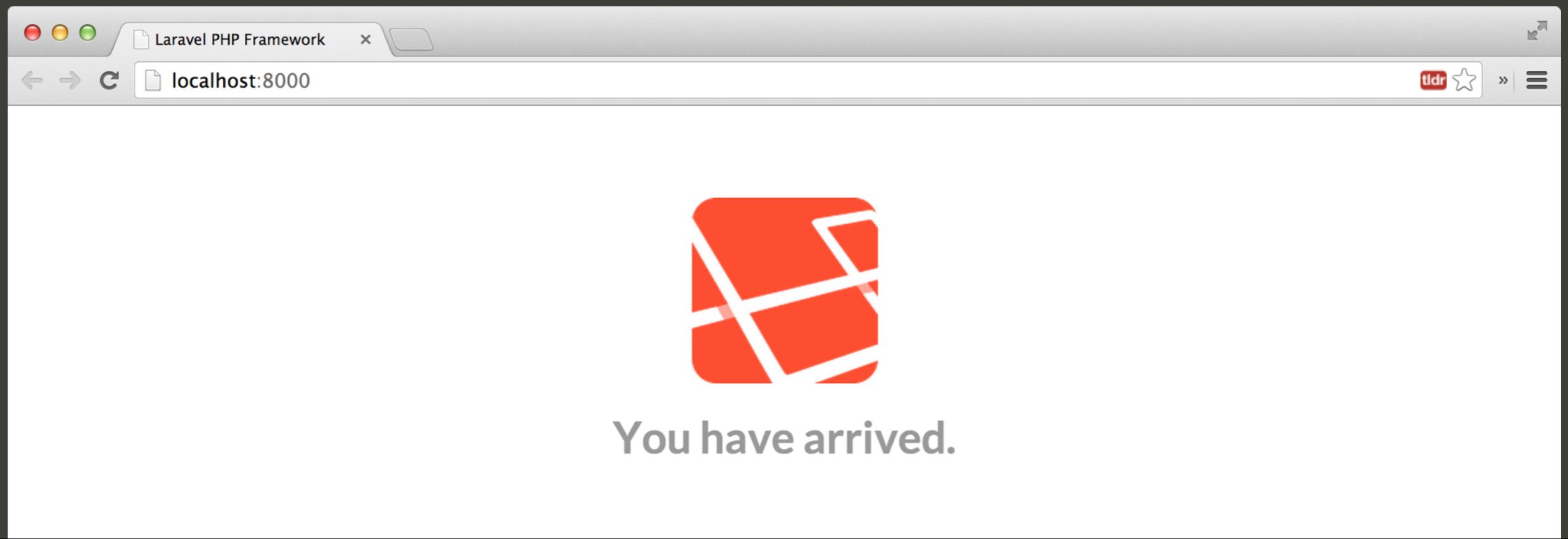
2. Install PHP

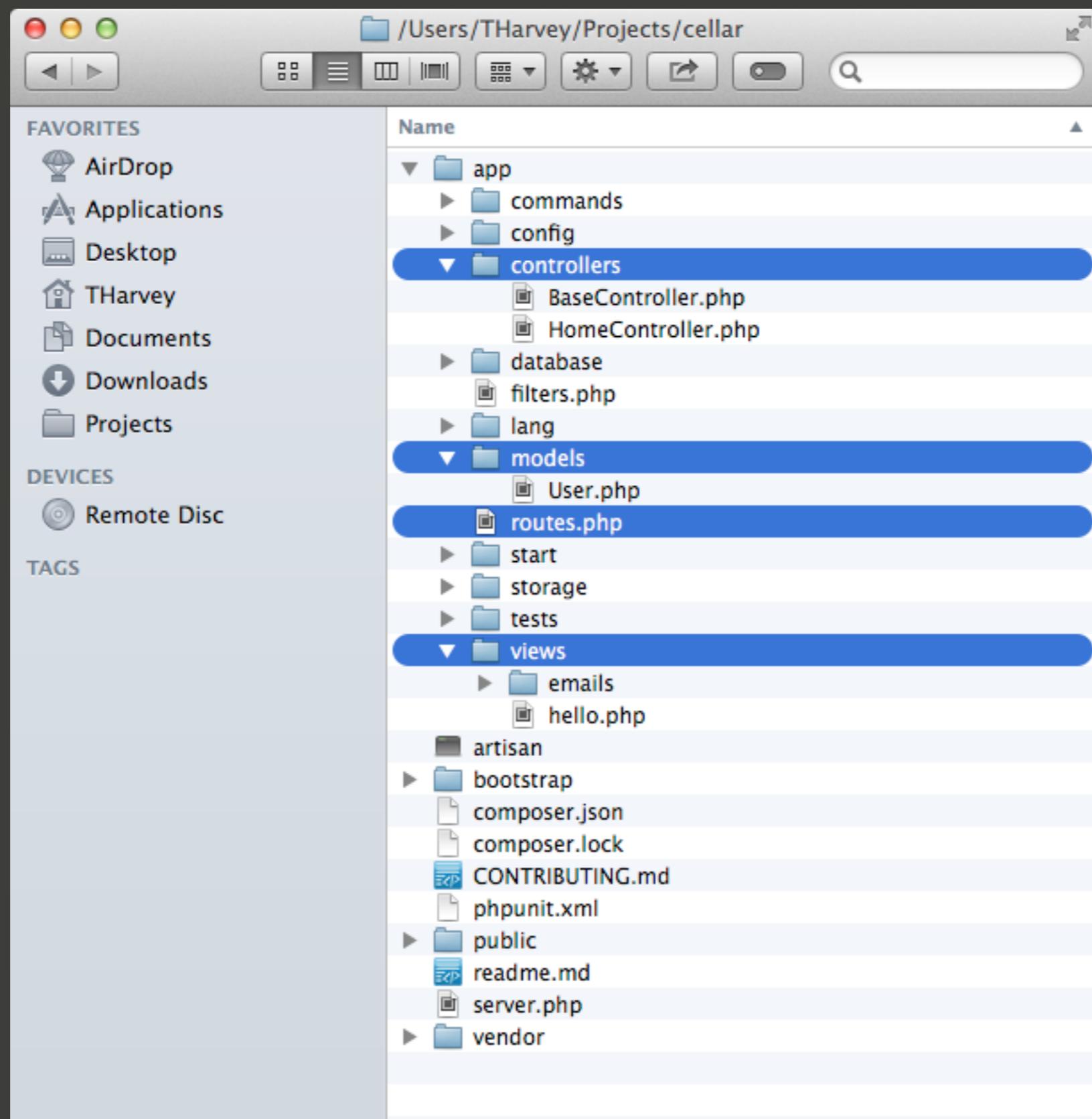
```
$ brew tap homebrew/dupes
$ brew tap josegonzalez/homebrew-php
$ brew install php55
$ brew install php55-mcrypt
```

3. Install Composer using Homebrew

```
$ brew install josegonzalez/php/composer
```

```
1. /Users/THarvey? (php)  
THarvey at macbookpro-118 in ~/Projects  
+ composer create-project laravel/laravel cellar  
THarvey at macbookpro-118 in ~/Projects  
+ cd cellar/  
THarvey at macbookpro-118 in ~/Projects/cellar on master*  
+ php artisan serve  
Laravel development server started on http://localhost:8000
```





The screenshot shows a Mac OS X desktop environment with a dark-themed code editor and a web browser window.

Code Editor:

- routes.php**:

```
1 <?php
2 /*
3 |----- Application Routes -----
4 |
5 | Here is where you can register all of the routes for an application.
6 | It's a breeze. Simply tell Laravel the URIs it should respond to
7 | and give it the Closure to execute when that URI is requested.
8 */
9 Route::get('/', array(
10    'as' => 'home',
11    function () {
12        return View::make('home');
13    }
14 ));
```
- layout.blade.php**:

```
1 <!doctype html>
2 <html lang="en">
3 <head>
4     <meta charset="UTF-8">
5     <title>Cellar - Sharing the best of Homebrew</title>
6 </head>
7 <body>
8     @yield('content')
9 </body>
10 </html>
```
- home.blade.php**:

```
1 @extends('layout')
2
3 @section('content')
4
5 <ol>
6     <li>
7         <p>Run this command to copy your Homebrew Formulae to the clipboard.</p>
8         <code>brew list --versions | pbcopy</code>
9     </li>
10    <li>
11        <p>Paste below.</p>
12    </li>
13 </ol>
14
15 <form action="/formulae" method="POST">
16     <textarea placeholder="Your Homebrew formulae" name="formulae"></textarea>
17     <div>
18         <input type="email" placeholder="Email" name="email">
19     </div>
20     <div>
21         <button type="submit">Submit</button>
22     </div>
23 </form>
24
25 @stop
```

Browser:

- Address bar: `localhost:8000`
- Page title: `Cellar - Sharing the best of Homebrew`
- Content area:

1. Run this command to copy your Homebrew Formulae to the clipboard.
`brew list --versions | pbcopy`

2. Paste below.

Your Homebrew formulae
Email
Submit

Spaces: 4

PHP

~Projects/cellar/app/views/home.blade.php — cellar

UNREGISTERED

FOLDERS

- cellar
 - app
 - commands
 - config
 - controllers
 - .gitkeep
 - BaseController.php
 - HomeController.php
 - database
 - lang
 - models
 - start
 - storage
 - tests
 - views
 - emails
 - home.blade.php
 - layout.blade.php
 - filters.php
 - routes.php
- bootstrap
- public
- vendor
- .gitattributes
- .gitignore
- artisan
- composer.json
- composer.lock
- CONTRIBUTING.md
- phpunit.xml
- readme.md
- server.php

```

1 <?php
2 /*
3 | Application Routes
4 |
5 | Here is where you can register all of the routes for an application.
6 | It's a breeze. Simply tell Laravel the URIs it should respond to
7 | and give it the Closure to execute when that URI is requested.
8 */
9
10 Route::get('/', array(
11     'as' => 'home',
12     function () {
13         return View::make('home');
14     }
15 ));
16
17 Route::post('/formulae', array(
18     'as' => 'formulae',
19     function () {
20         dd(Input::get('formulae'));
21     }
22 ));
23
24
25
26
27

```

```

1 @extends('layout')
2
3 @section('content')
4
5 <ol>
6     <li>
7         <p>Run this command to copy your Homebrew Formulae to the clipboard.</p>
8         <code>brew list --versions | pbcopy</code>
9     </li>
10    <li>
11        <p>Paste below.</p>
12    </li>
13 </ol>
14
15 {{ Form::open(array('route' => 'formulae')) }}
16     <textarea placeholder="Your Homebrew formulae" name="formulae"></textarea>
17     <div>
18         <input type="email" placeholder="Email" name="email">
19     </div>
20     <div>
21         <button type="submit">Submit</button>
22     </div>
23 {{ Form::close() }}
24
25 @stop
26

```

Cellar – Sharing the best of

localhost:8000

Line 11, Column 28

1. Run this command to copy your Homebrew Formulae to the clipboard.

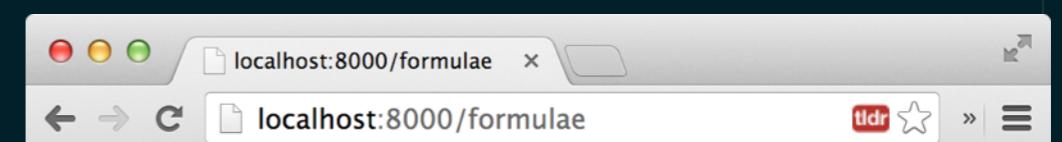
```
brew list --versions | pbcopy
```

2. Paste below.

```
autoconf 2.69
automake 1.14
composer 1.0.0-alpha7
ctags 5.8
curl 7.34.0
```

tharvey@indatus.com

Submit



```

string 'autoconf 2.69
automake 1.14
composer 1.0.0-alpha7 1.0.0-alpha8
ctags 5.8
curl 7.34.0
envoy 1.0.5
faac 1.28
ffmpeg 1.2.4
freetype 2.5.0.1 2.5.2
gdbm 1.11
gettext 0.18.3.1 0.18.3.2
git-ftp 0.9.0
htmlcompressor 1.5.3
imagemagick 6.8.7-7
jpeg 8d
lame 3.99.5
leptonica 1.69
libevent 2.0.21
libgpg-error 1.12
libksba 1.3.0
libpng 1.5.14 1.5.17
libssh2 1.4.3
libtiff 4.0.3
libtool 2.4.2
libyaml 0.1.4

```

The screenshot shows a developer's workspace with two code editors and a browser preview.

Left Editor: The file `routes.php` contains the following code:

```
<?php  
Route::get('/', array(  
    'as' => 'home',  
    function () {  
        return View::make('home');  
    }  
));  
Route::post('/formulae', 'FormulaController@store');
```

Right Editor: The file `FormulaController.php` contains the following code:

```
<?php  
class FormulaController extends BaseController  
{  
    public function store()  
    {  
        $email = Input::get('email');  
        $formulae = $this->parseFormulae(Input::get('formulae'));  
        dd($formulae);  
    }  
    private function parseFormulae($formulae)  
    {  
        // string 'autoconf 2.69\nnode 0.10.24 0.10.25'  
        // to  
        // array ['autoconf 2.69', 'node 0.10.24 0.10.25']  
        $formulae = explode("\n", $formulae);  
        foreach ($formulae as &$formula) {  
            // string 'node 0.10.24 0.10.25'  
            // to  
            // array ['node', '0.10.24', '0.10.25']  
            $f = explode(' ', $formula);  
            $formula = [  
                'formula' => array_shift($f), // 1st  
                'version' => array_pop($f) // nth  
            ];  
        }  
        return $formulae;  
    }  
}
```

Browser Preview: The browser window shows the URL `localhost:8000/formulae`. The page content is displayed as a list of arrays, each containing a formula and its version. The first few items are:

- array (size=2)
 - 0 => array (size=2)
 - 'formula' => string 'autoconf' (length=8)
 - 'version' => string '2.69' (length=5)
 - 1 => array (size=2)
 - 'formula' => string 'automake' (length=8)
 - 'version' => string '1.14' (length=5)
 - 2 => array (size=2)
 - 'formula' => string 'composer' (length=8)
 - 'version' => string '1.0.0-alpha8' (length=13)
 - 3 => array (size=2)
 - 'formula' => string 'ctags' (length=5)
 - 'version' => string '5.8' (length=4)
 - 4 => array (size=2)
 - 'formula' => string 'curl' (length=4)
 - 'version' => string '7.34.0' (length=7)
 - 5 => array (size=2)
 - 'formula' => string 'envoy' (length=5)
 - 'version' => string '1.0.5' (length=6)
 - 6 => array (size=2)
 - 'formula' => string 'faac' (length=4)
 - 'version' => string '1.28' (length=5)

The screenshot shows a dual-pane code editor interface with two tabs open: `User.php` and `Formula.php`. The left pane displays the `User.php` file, and the right pane displays the `Formula.php` file. Both files are part of the `cellar` project, specifically located in the `app/models` directory.

User.php Content:

```
<?php  
class User extends Eloquent  
{  
    protected $guarded = [];  
    public function formulas()  
    {  
        return $this->belongsToMany('Formula', 'user_formula');  
    }  
}  
12
```

Formula.php Content:

```
<?php  
class Formula extends Eloquent  
{  
    protected $guarded = [];  
    public function users()  
    {  
        return $this->belongsToMany('User', 'user_formula');  
    }  
}  
12
```

Project Structure (Left Sidebar):

- FOLDERS**
 - cellar**
 - app**
 - commands
 - config
 - controllers
 - database**
 - migrations
 - .gitkeep
 - 2014_02_18_041952_create_users_table
 - 2014_02_18_042813_create_formulas_table
 - 2014_02_18_042930_create_user_formula_table
 - seeds
 - production.sqlite
 - lang
 - models**
 - Formula.php
 - User.php**
 - start
 - storage
 - tests
 - views
 - filters.php
 - routes.php
 - bootstrap
 - public
 - vendor
 - .gitattributes

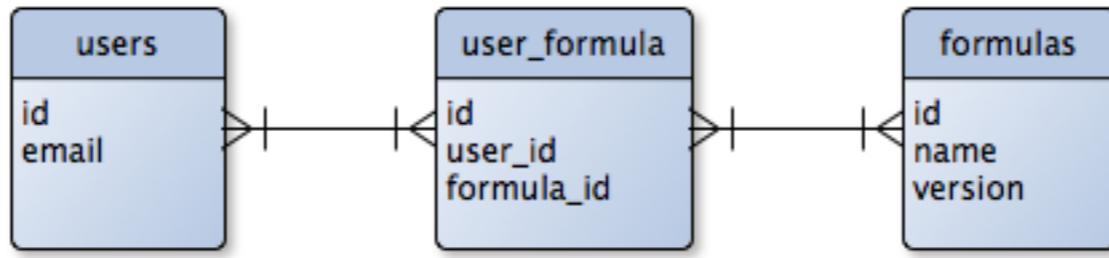
Line 12, Column 1

Spaces: 4

PHP

**YO DAWG, I HEARD YOU LIKE MIGRATIONS ON
YOUR DATABASE**

**SO I DROPPED ALL YOUR PRODUCTION
TABLES**



1. /Users/THarvey? (bash)

THarvey at macbookpro-118 in ~/Projects/cellar on master*

```
+ php artisan migrate:make create_formulas_table --create=formulas
```

FOLDERS

- cellar
 - app
 - commands
 - config
 - controllers
 - database
 - migrations
 - .gitkeep
 - 2014_02_18_041952_create_users_table.php
 - 2014_02_18_042813_create_formulas_table.php
 - 2014_02_18_042930_create_user_formula_table.php
 - seeds
 - .gitkeep
 - DatabaseSeeder.php
 - production.sqlite
 - lang
 - models
 - Formula.php
 - User.php
 - start
 - storage
 - tests
 - views
 - filters.php
 - routes.php

2014_02_18_042813_create_formulas_table.php * ← ▶

```

1 <?php
2
3 use Illuminate\Database\Schema\Blueprint;
4 use Illuminate\Database\Migrations\Migration;
5
6 class CreateFormulasTable extends Migration
7 {
8
9     public function up()
10    {
11         Schema::create('formulas', function (Blueprint $table) {
12             $table->increments('id');
13             $table->string('name');
14             $table->string('version');
15             $table->timestamps();
16         });
17    }
18
19    public function down()
20    {
21        Schema::drop('formulas');
22    }
23}
24
```

3. /Users/THarvey? (bash)

```
THarvey at macbookpro-118 in ~/Projects/cellar on master*
+ php artisan migrate
Migration table created successfully.
Migrated: 2014_02_18_041952_create_users_table
Migrated: 2014_02_18_042813_create_formulas_table
Migrated: 2014_02_18_042930_create_user_formula_table
THarvey at macbookpro-118 in ~/Projects/cellar on master*
+
```

file:///localhost/Users/THarvey/Projects/cellar/app/database/production.sqlite

/Users/THarvey/Projects... ↻

Explore Query Visualize

Tables	id	version	created_at	updated_at	name
formulas					
migrations					
user_formula					
users					

UNREGISTERED

FOLDERS

- cellar
 - app
 - commands
 - config
 - controllers
 - .gitkeep
 - BaseController.php
 - FormulaController.php
 - database
 - lang
 - models
 - start
 - storage
 - tests
 - views
 - filters.php
 - routes.php
 - bootstrap
 - public
 - vendor
- .gitattributes
- .gitignore
- artisan
- composer.json
- composer.lock
- CONTRIBUTING.md
- er-daigram.graphml
- er-daigram.png
- phpunit.xml
- readme.md
- server.php

FormulaController.php *

```
1 <?php
2
3 class FormulaController extends BaseController
4 {
5     public function store()
6     {
7         $user = User::create([
8             'email' => Input::get('email')
9         ]);
10
11         // Array of new Formulas from brew list string
12         $formulae = Formula::createFromBrewList(Input::get('formulae'));
13
14         // Attach each formula
15         foreach ($formulae as $formula) {
16             $user->formulas()->attach($formula);
17         }
18     }
19 }
20
```

file:///localhost/Users/THarvey/Projects/cellar/app/database/production.sqlite

/Users/THarvey/Projects/...

Explore Query Visualize

Tables	id	created_at	email	updated_at
formulas	1	2014-02-18 17:41:06	tharvey@indatus.com	2014-02-18 17:41:06
migrations	2	2014-02-18 17:51:25	tharvey@indatus.com	2014-02-18 17:51:25
user_formula	3	2014-02-18 17:58:10	tharvey@indatus.com	2014-02-18 17:58:10
users	4	2014-02-19 01:14:46	tharvey@indatus.com	2014-02-19 01:14:46
	5	2014-02-19 01:38:48	tharvey@indatus.com	2014-02-19 01:38:48
	6	2014-02-19 01:39:11	tharvey@indatus.com	2014-02-19 01:39:11
	7	2014-02-19 01:39:30	tharvey@indatus.com	2014-02-19 01:39:30
	8	2014-02-19 01:40:08	tharvey@indatus.com	2014-02-19 01:40:08
	9	2014-02-19 01:40:33	tharvey@indatus.com	2014-02-19 01:40:33
	10	2014-02-19 01:40:49	tharvey@indatus.com	2014-02-19 01:40:49
	11	2014-02-19 01:49:29	tharvey@indatus.com	2014-02-19 01:49:29
	12	2014-02-19 01:50:37	tharvey@indatus.com	2014-02-19 01:50:37
	13	2014-02-19 01:52:31	tharvey@indatus.com	2014-02-19 01:52:31

A screenshot of a Mac OS X desktop environment. At the top, there is a menu bar with standard Apple menu items. Below the menu bar, there are two terminal windows and a code editor window.

The code editor window (left) has tabs for "2014_02_19_022119_add_unique_index_on_user_email.php" and "FormulaController.php". The "FormulaController.php" tab is active, showing the following PHP code:

```
<?php  
class FormulaController extends BaseController  
{  
    public function store()  
    {  
        // Try to find the user by email  
        $user = User::where('email', '=', Input::get('email'))->first();  
        if (!$user) {  
            $user = User::create([  
                'email' => Input::get('email')  
            ]);  
        }  
        // Array of new Formulas from brew list string  
        $formulae = Formula::createFromBrewList(Input::get('formulae'));  
        // Attach each formula  
        foreach ($formulae as $formula) {  
            $user->formulas()->attach($formula->id);  
        }  
    }  
}
```

The terminal window at the bottom left shows the command being run:

```
Line 7, Column 41  
1. /Users/THarvey? (bash)  
THarvey at macbookpro-118 in ~/Projects/cellar on master*  
+ php artisan migrate:make add_unique_index_on_user_email  
Created Migration: 2014_02_19_022119_add_unique_index_on_user_email  
Generating optimized class loader
```

The terminal window at the bottom right shows the output of the migration command:

```
THarvey at macbookpro-118 in ~/Projects/cellar on master*  
+ [redacted]
```

A screenshot of a dual-pane code editor. The left pane shows `FormulaController.php` with PHP code for handling user authentication and formula storage. The right pane shows `trending.blade.php` with Blade template code for displaying a table of trending formulas.

```
FormulaController.php
1 <?php
2
3 class FormulaController extends BaseController
4 {
5     public function store()
6     {
7         // Try to find the user by email
8         $user = User::where('email', '=', Input::get('email'))->first();
9
10    if (!$user) {
11        $user = User::create([
12            'email' => Input::get('email')
13        ]);
14    }
15
16    // Array of new Formulas from brew list string
17    $formulae = Formula::createFromBrewList(Input::get('formulae'));
18
19    // Attach each formula
20    foreach ($formulae as $formula) {
21        $user->formulas()->attach($formula->id);
22    }
23
24    return Redirect::route('trending');
25
26
27 /**
28 * List the 15 most popular home brew formula
29 * @return View
30 */
31 public function trending()
32 {
33     $formulas = DB::table('formulas')
34         ->select('name', DB::raw('count(*) as total'))
35         ->groupBy('name')
36         ->orderBy('total', 'DESC')
37         ->take(15)
38         ->get();
39
40     return View::make('trending', compact('formulas'));
41 }
42
43
```

```
trending.blade.php
1 @extends('layout')
2
3 @section('content')
4
5 <table>
6     <thead>
7         <tr>
8             <th>Installs</th>
9             <th>Formula</th>
10        </tr>
11    </thead>
12    <tbody>
13        @foreach ($formulas as $formula)
14            <tr>
15                <td>{{ $formula->total }}</td>
16                <td>{{ $formula->name }}</td>
17            </tr>
18        @endforeach
19    </tbody>
20
21
22    @stop
23
```

A screenshot of a web browser window titled "Cellar – Sharing the best o...". The address bar shows `localhost:8000/trending`. The page displays a table with two columns: "Installs" and "Formula". The data is as follows:

Installs	Formula
42	python
39	curl
39	jpeg
31	node
31	php55
18	composer
18	ctags
18	ffmpeg
18	htmlcompressor

```
~Projects/cellar/app/views/layout.blade.php — cellar UNREGISTERED
layout.blade.php * ~Projects/cellar/app/views/layout.blade.php

1 <!doctype html>
2 <html lang="en">
3 <head>
4   <meta charset="UTF-8">
5   <title>Cellar – Sharing the best of Homebrew</title>
6
7   <link rel="stylesheet" href="//netdna.bootstrapcdn.com/bootstrap/3.1.1/css/bo
8   <link rel="stylesheet" href="//designmodo.github.io/Flat-UI/css/flat-ui.css">
9
10  <style>
11    body {
12      background-color: #edeeee;
13    }
14    #hero {
15      margin: 40px;
16      text-align: center;
17    }
18    #hero h1 {
19    }
20    button.btn-primary {
21      background-color: #fbc54a;
22    }
23  </style>
24
25
26 </head>
27 <body>
28
29   <div id="hero">
30     <svg version="1.1" id="Layer_1" xmlns="http://www.w3.org/2000/svg" xmlns:
31       <path d="M71.688,36.5H62v-5.667v-6.886c0,0,0,0,0-0.001c0.412-0.88,0.702-1
32       </svg>
33     <h1>Cellar</h1>
34   </div>
35
36
37   <div class="container">
38     <div class="row">
39       <div class="col-lg-6 col-lg-offset-3">
40
41         @yield('content')
42
43       </div>
44     </div>
45   </div>
46
```

Cellar – Sharing the best of Homebrew

localhost:8000



Cellar

1. Share your favorite Homebrew formulae.
2. Just run this command.
`brew list --versions | pbcopy`
3. And paste below.

Your Homebrew formulae

Email

Submit

@troyharvey
github.com/troyharvey/cellar