

Building APIs with Silex

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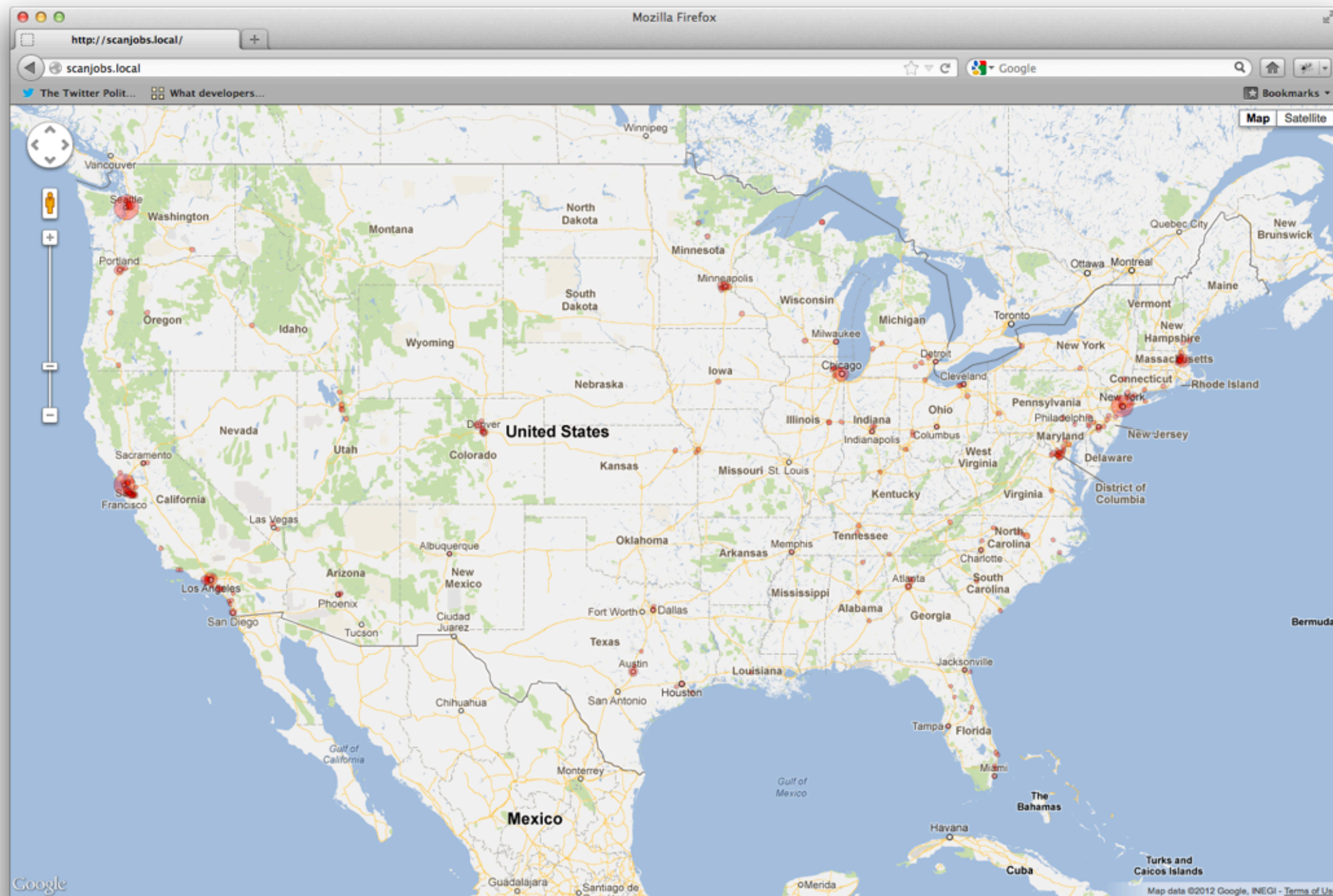
@calevans

The Sample Application

<https://github.com/calevans/scanjobs>

<https://joind.in/7094>

The Sample Application



Introduction to Silex

- Not a micro-framework

The MicroPHP Manifesto

<http://funkatron.com/posts/the-microphp-manifesto.html>



Introduction to Silex

```
$ cloc vendor
  1073 text files.
  1063 unique files.
   667 files ignored.
```

```
http://cloc.sourceforge.net v 1.56  T=6.0 s (157.5 files/s, 20622.2 lines/s)
```

Language	files	blank	comment	code
PHP	919	17360	37173	68674
XML	12	32	28	257
Bourne Shell	2	18	3	66
YAML	10	9	0	52
XSD	1	8	0	36
Python	1	5	0	12
SUM:	945	17432	37204	69097

Introduction to Silex

- Not a micro-framework
- What it is good for

Introduction to Silex

- Not a micro-framework
- What it is good for
- What is isn't good for

Introduction to Composer

- Composer is not PEAR
- Composer is useful
- Creating your composer.json
 - Require
 - autoloaders

composer.json

```
{
    "name": "scanJobs",
    "minimum-stability": "dev",
    "require": {
        "silex/silex": "1.0.*",
        "doctrine/dbal": ">=2.2",
        "knplabs/console-service-provider": ">=1.0.0",
        "igorw/config-service-provider": "*.*.*"
    },
    "autoload": {
        "psr-0": {
            "CalEvans": "src/",
            "ScanJobs": "app/"
        }
    }
}
```

Introduction to Composer

- Composer is not PEAR
- Composer is useful
- Creating your composer.json
 - Require
 - autoloaders
- Composer & git

Basic Project Structure

- No required structure for Silex
- Composer has required structure

Sample Application Structure

scanJobs

- | -app
- | -config
- | -data
- | -logs
- | -public
- | -scripts
- | -src
- | -tmp
- | -vendor

- | -app
- | --- ScanJobs
- | ----- Command
- | ----- Controller
- | ----- Model

Sample Application Structure

scanJobs

- | -app
- | -**config**
- | -data
- | -logs
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- | -src
- | -tmp
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Sample Application Structure

scanJobs

- | -app
- | -config
- | -data
- | -logs
- | -**public**
- | -scripts
- | -src
- | -tmp
- | -vendor

- | -app
- | --- ScanJobs
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Sample Application Structure

scanJobs

- | -app
- | -config
- | -data
- | -logs
- | -public
- | -**scripts**
- | -src
- | -tmp
- | -vendor

- | -app
- | ---ScanJobs
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Sample Application Structure

scanJobs

- | -app
- | -config
- | -data
- | -logs
- | -public
- | -scripts
- | -src
- | -tmp
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- | --- ScanJobs
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Sample Application Structure

scanJobs

- | -app
- | -config
- | -data
- | -logs
- | -public
- | -scripts
- | -src
- | -**tmp**
- | -vendor

- | -app
- | ---ScanJobs
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Sample Application Structure

scanJobs

- | -app
- | -config
- | -data
- | -logs
- | -public
- | -scripts
- | -src
- | -tmp
- | -**vendor**

- | -app
- | ---ScanJobs
- | -----Command
- | -----Controller
- | -----Model

Basic Project Structure

- No required structure for Silex
- Composer has required structure
- Application root vs. Document Root

Configuration

- What I did not choose
- What I did choose

Configuration

- What I did not choose
- What I did choose
- Editing JSON by hand is stupid

The Bootstrap

- Why a Bootstrap?
 - DRY
 - Security

Bootstrap.php

app/Bootstrap.php

```
<?PHP
```

```
$env = getenv('APP_ENV') ?: 'prod';
```

```
$app = new Silex\Application();
```

```
$app->register(new Igorw\Silex  
\ConfigServiceProvider(__DIR__."/../config/{$env}.json"));
```

```
$app->register(new Silex\Provider  
\DoctrineServiceProvider(),
```

```
    array('db.options' => $app['database']));
```

```
return $app;
```


Bootstrap.php

app/Bootstrap.php

```
<?PHP
```

```
$env = getenv('APP_ENV') ?: 'prod';
```

```
$app = new Silex\Application();
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```
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    array('db.options' => $app['database']));
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    array('db.options' => $app['database']));
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Bootstrap.php

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$app->register(new Silex\Provider  
\DoctrineServiceProvider(),
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```
    array('db.options' => $app['database']));
```

```
return $app;
```

Bootstrap.php

app/Bootstrap.php

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```

```
$app->register(new Silex\Provider  
\DoctrineServiceProvider(),
```

```
    array('db.options' => $app['database']));
```

```
return $app;
```

The Bootstrap

- Why a Bootstrap?
 - DRY
 - Security
- Uses `APP_ENV`
- Makes 1 assumption
- Creates our database connection

The Web Dispatch Script

public/index.php

```
<?PHP
```

```
require_once __DIR__ . '/../vendor/autoload.php' ;
```

```
use ScanJobs\Controllers;
```

```
$app = require '../app/Bootstrap.php' ;
```

```
$app->mount('/jobs', new Controllers\JobsController());
```

```
$app->mount('/cities', new Controllers\CityController());
```

```
$app->mount('/companies', new Controllers  
\CompanyController());
```

```
$app->mount('/', new Controllers\IndexController());
```

```
$app->run();
```

The Web Dispatch Script

public/index.php

```
<?PHP
require_once __DIR__.'../vendor/autoload.php';

use ScanJobs\Controllers;

$app = require '../app/Bootstrap.php';

$app->mount('/jobs', new Controllers\JobsController());
$app->mount('/cities', new Controllers\CityController());
$app->mount('/companies', new Controllers
\CompanyController());
$app->mount('/', new Controllers\IndexController());

$app->run();
```

The Web Dispatch Script

public/index.php

```
<?PHP
require_once __DIR__.'../vendor/autoload.php';

use ScanJobs\Controllers;

$app = require '../app/Bootstrap.php';

$app->mount('/jobs', new Controllers\JobsController());
$app->mount('/cities', new Controllers\CityController());
$app->mount('/companies', new Controllers
\CompanyController());
$app->mount('/', new Controllers\IndexController());

$app->run();
```


The Web Dispatch Script

`public/index.php`

```
<?PHP
```

```
require_once __DIR__.'../vendor/autoload.php';
```

```
use ScanJobs\Controllers;
```

```
$app = require '../app/Bootstrap.php';
```

```
$app->mount('/jobs', new Controllers\JobsController());
```

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$app->mount('/cities', new Controllers\CityController());
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\CompanyController());
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```
$app->mount('/', new Controllers\IndexController());
```

```
$app->run();
```

The Web Dispatch Script

`public/index.php`

```
<?PHP
require_once __DIR__.'../vendor/autoload.php';

use ScanJobs\Controllers;

$app = require '../app/Bootstrap.php';

$app->mount('/jobs', new Controllers\JobsController());
$app->mount('/cities', new Controllers\CityController());
$app->mount('/companies', new Controllers
\CompanyController());
$app->mount('/', new Controllers\IndexController());

$app->run();
```

The CLI Dispatch Script

app/console.sh

```
#!/usr/bin/env php
<?php
require_once __DIR__.'../vendor/autoload.php';

use ScanJobs\Command;
use CalEvans\Google\Geocode as Geocode;
use Knp\Provider\ConsoleServiceProvider;

$app = require 'Bootstrap.php';

$app->register(new ConsoleServiceProvider(),
    array('console.name' => 'Console',
          'console.version' => '1.0.0',
          'console.project_directory' => __DIR__.'../'));
$application = $app['console'];
$scan = new Command\ScanJobsCommand();
$scan->addGeocodeer(new Geocode());
$application->add($scan);
$application->add(new Command\NewDatabaseCommand());
$application->add(new Command\WorkCommand());
$application->run();
```

The CLI Dispatch Script

app/console.sh

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$application->add(new Command\WorkCommand());
$application->run();
```

The CLI Dispatch Script

app/console.sh

```
#!/usr/bin/env php
<?php
require_once __DIR__.'../../vendor/autoload.php';

use ScanJobs\Command;
use CalEvans\Google\Geocode as Geocode;
use Knp\Provider\ConsoleServiceProvider;

$app = require 'Bootstrap.php';

$app->register(new ConsoleServiceProvider(),
    array('console.name' => 'Console',
          'console.version' => '1.0.0',
          'console.project_directory' => __DIR__.'../../'));
$application = $app['console'];
$scan = new Command\ScanJobsCommand();
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use Knp\Provider\ConsoleServiceProvider;

$app = require 'Bootstrap.php';

$app->register(new ConsoleServiceProvider(),
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The CLI Dispatch Script

app/console.sh

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$app = require 'Bootstrap.php';

$app->register(new ConsoleServiceProvider(),
    array('console.name' => 'Console',
          'console.version' => '1.0.0',
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$application = $app['console'];
$scan = new Command\ScanJobsCommand();
$scan->addGeocodeer(new Geocode());
$application->add($scan);
$application->add(new Command\NewDatabaseCommand());
$application->add(new Command\WorkCommand());
$application->run();
```

You and your DB

- Connection is created in the Bootstrap
- Finding your connection
- Create the database

Creating the DB Connection

`app/Bootstrap.php`

```
$app->register(new Silex\Provider\DoctrineServiceProvider(),  
              array('db.options' => $app['database']));
```

The CLI

- Why CLI?
 - Code reuse
 - Utility scripts
- The CLI Provider
 - Creating Commands

WorkCommand

app/ScanJobs/Command/WorkCommand.php

```
class WorkCommand extends Command
{
    protected function configure()
    {
        $this->setName('work')
        ->setDescription('Generic all-purpose work script');
    }

    protected function execute(\Symfony\Component\Console\Input\InputInterface $input,
                               \Symfony\Component\Console\Output\OutputInterface $output)
    {
        // Do something clever here
        $output->writeln('Done');
        return;
    }
}
```

WorkCommand

app/ScanJobs/Command/WorkCommand.php

```
class WorkCommand extends Command
{
    protected function configure()
    {
        $this->setName('work')
        ->setDescription('Generic all-purpose work script');
    }

    protected function execute(\Symfony\Component\Console\Input\InputInterface $input,
                               \Symfony\Component\Console\Output\OutputInterface $output)
    {
        // Do something clever here
        $output->writeln('Done');
        return;
    }
}
```

The CLI

- Why CLI?
 - Code reuse
 - Utility scripts
- The CLI Provider
 - Creating Commands
 - Registering Commands

Registering a command

```
$application->add(new Command\WorkCommand()) ;
```

The API

- The heart of what we are doing
- This application has very little in the way of front-end. it is mostly backend.

The API

- The heart of what we are doing
- This application has very little in the way of front-end
- Several ways to create an API in Silex
 - `->get()`, `->post()`, `->delete()`, `->update()`

The API

```
$app->get('/info',function () {phpinfo();});  
$app->put('/info',function () {phpinfo();});  
$app->post('/info',function () {phpinfo();});  
$app->delete('/info',function () {phpinfo();});
```

The API

- The heart of what we are doing
- This application has very little in the way of Frontend
- Several ways to create an API in Silex
 - `->get()`, `->post()`, `->delete()`, `->update()`
 - `->match()->method()`

The API

```
$app->match('/info',function() {phpinfo();})  
->method('GET|PUT|POST|DELETE|PATCH|HEAD|OPTIONS');
```

```
$app->match('/info',function() {phpinfo();})  
->method('GET');
```

```
$app->match('/info',function() {phpinfo();})  
->method('POST');
```

```
$app->match('/info',function() {phpinfo();})  
->method('DELETE|PUT');
```

```
$app->match('/info',function() {phpinfo();})  
->method('PATCH|HEAD|OPTIONS');
```

The API

- The heart of what we are doing
- This application has very little in the way of front-end
- Several ways to create an API in Silex
 - `->get()`, `->post()`, `->delete()`, `->update()`
 - `->match()->method()`
- Route Variables

The API

```
$app->match( '/helloworld/{firstName}' ,  
    function($firstName)  
    {  
        echo "<h2>Hello {$firstName}</h2>\n";  
    })  
->method( 'GET' ) ;
```


The API

- The heart of what we are doing
- This application has very little in the way of front-end
- Several ways to create an API in Silex
 - `->get()`, `->post()`, `->delete()`, `->update()`
 - `->match()->method()`
- Route Variables
- Mounts vs. Routes

The API

```
$app->mount('/jobs',  
            new Controller\JobsController());
```

The API

app/ScanJobs/Controller/JobsController.php

```
<?PHP
```

```
namespace ScanJobs\Controller;
```

```
use Silex\Application;
```

```
use Silex\ControllerProviderInterface;
```

```
use Silex\ControllerCollection;
```

```
use ScanJobs\Model\Job;
```

```
class JobsController implements ControllerProviderInterface
```

```
{
```

```
    protected $app;
```

```
    public function connect(Application $app)
```

```
    {
```

```
        $this->app = $app;
```

```
        $getJobsList = function()
```

```
        {
```

```
            return $this->getJobsList();
```

```
        };
```

```
        $controller = $app['controllers_factory'];
```

```
        $controller->get('/', $getJobsList);
```

```
        return $controller;
```

```
    }
```

The API

app/ScanJobs/Controller/JobsController.php

```
<?PHP
namespace ScanJobs\Controller;

use Silex\Application;
use Silex\ControllerProviderInterface;
use Silex\ControllerCollection;
use ScanJobs\Model\Job;

class JobsController implements ControllerProviderInterface
{
    protected $app;

    public function connect(Application $app)
    {
        $this->app = $app;

        $getJobsList = function()
        {
            return $this->getJobsList();
        };

        $controller = $app['controllers_factory'];
        $controller->get('/', $getJobsList);

        return $controller;
    }
}
```

The API

app/ScanJobs/Controller/JobsController.php

```
<?PHP
namespace ScanJobs\Controller;

use Silex\Application;
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use Silex\ControllerCollection;
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class JobsController implements ControllerProviderInterface
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    protected $app;

    public function connect(Application $app)
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            return $this->getJobsList();
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        $controller = $app['controllers_factory'];
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The API

app/ScanJobs/Controller/JobsController.php

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namespace ScanJobs\Controller;

use Silex\Application;
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class JobsController implements ControllerProviderInterface
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    protected $app;

    public function connect(Application $app)
    {
        $this->app = $app;

        $getJobsList = function()
        {
            return $this->getJobsList();
        };

        $controller = $app['controllers_factory'];
        $controller->get('/', $getJobsList);

        return $controller;
    }
}
```

The API

app/ScanJobs/Controller/JobsController.php

```
<?PHP
namespace ScanJobs\Controller;

use Silex\Application;
use Silex\ControllerProviderInterface;
use Silex\ControllerCollection;
use ScanJobs\Model\Job;

class JobsController implements ControllerProviderInterface
{
    protected $app;

    public function connect(Application $app)
    {
        $this->app = $app;

        $getJobsList = function()
        {
            return $this->getJobsList();
        };

        $controller = $app['controllers_factory'];
        $controller->get('/', $getJobsList);

        return $controller;
    }
}
```

The API

app/ScanJobs/Controller/JobsController.php

```
<?PHP
namespace ScanJobs\Controller;

use Silex\Application;
use Silex\ControllerProviderInterface;
use Silex\ControllerCollection;
use ScanJobs\Model\Job;

class JobsController implements ControllerProviderInterface
{
    protected $app;

    public function connect(Application $app)
    {
        $this->app = $app;

        $getJobsList = function()
        {
            return $this->getJobsList();
        };

        $controller = $app['controllers_factory'];
        $controller->get('/', $getJobsList);

        return $controller;
    }
}
```


The API

app/ScanJobs/Controller/JobsController.php (continued)

```
protected function getJobsList()
{
    $results = Job::fetchJobsList($this->app['db'], 'US');
    $payload = array('results' => $results);
    return $this->app->json($payload, 200);
}
}
```

The API

`app/ScanJobs/Controller/JobsController.php (continued)`

```
protected function getJobsList()
{
    $results = Job::fetchJobsList($this->app['db'], 'US');
    $payload = array('results' => $results);
    return $this->app->json($payload, 200);
}
}
```

The API

- Step 1 - Think it through
- Step 2 - Group your routes
- Step 3 - Build your controllers

Packaging For Deployment

- GitHub is easy
- Deployment to a normal physical or virtual) server is easy
- Deploying to a PaaS is a PITA
- When it doubt, script it.

Packaging For Deployment

```
#!/bin/bash

REPO_NAME="external"
BRANCH_NAME="deploy"

git branch -D $BRANCH_NAME
git checkout -b $BRANCH_NAME

cat .gitignore | grep -v vendor > .gitignore.new
mv .gitignore.new .gitignore

for gitdir in `find ./vendor -name ".git"`
do
    BASENAME=$(dirname $gitdir)
    rm -rf $BASENAME"/.git"
    rm -rf $BASENAME"/.gitignore"
done

chmod -R 775 vendor
git add vendor
git commit -a -m "Integrate vendors for deploy"

git push -f $REPO_NAME $BRANCH_NAME

git checkout master
git branch -D $BRANCH_NAME

composer.phar install
```

Packaging For Deployment

```
#!/bin/bash

REPO_NAME="external"
BRANCH_NAME="deploy"

git branch -D $BRANCH_NAME
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for gitdir in `find ./vendor -name ".git"`
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git add vendor
git commit -a -m "Integrate vendors for deploy"

git push -f $REPO_NAME $BRANCH_NAME

git checkout master
git branch -D $BRANCH_NAME

composer.phar install
```

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Wrap Up

- Silex is still not a micro-framework
- Silex is useful
- Silex is powerful
- Silex is not **the** answer.
(but it is one of the answers)

Questions?



Cal Evans

```
{  
  "e": "cal@calevans.com",  
  "t": "@calevans",  
  "b": "http://\blog.calevans.com"  
}
```

<https://github.com/calevans/scanjobs>

<https://joind.in/7094>