



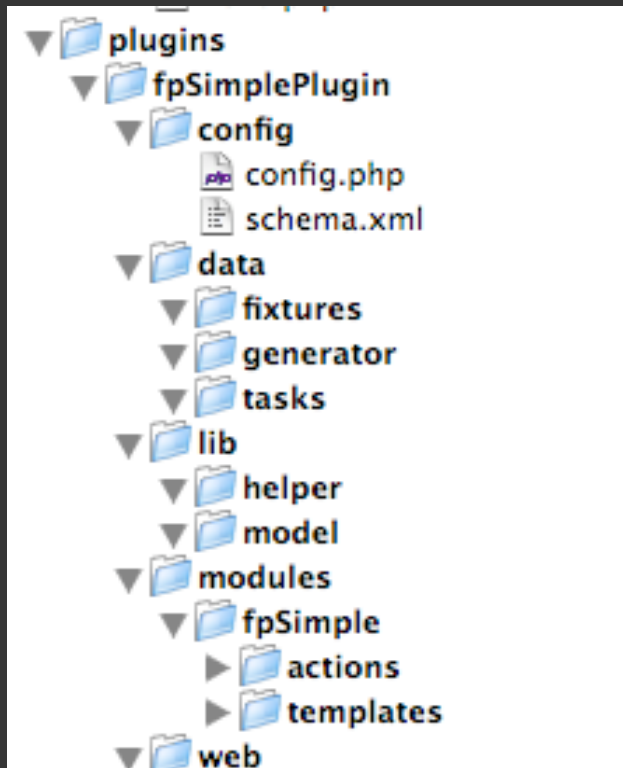
symfony

Write Plugins

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What is a Plugin?

- Directory structure convention



- Classes
- Filters
- Mixins
- Helpers
- Configuration
- Tasks
- Modules
- Schemas
- Model Extensions
- Fixtures
- Web Assets

What for?

- To contribute back a symfony extension
- Another way to package your code
- To share code between projects

Portability

Let's build a plugin

Plugin Creation

- Choose a name
 - Choose a prefix (sf is only for Official Plugins) - Your initials for example
 - If it depends on **Propel** or **Doctrine**, add it to the prefix
 - Choose a main name
 - Add the « **Plugin** » suffix
- For our simple plugin: **fpPropelSimplePlugin**
- Create a folder **plugins/fpPropelSimplePlugin**

Add some Web Assets

- Put assets in a `web/` folder
 - `web/js`
 - `web/css`
 - `web/images`

- `symfony plugin-install ...`
 - Creates a symlink on *nix
 - Copies all files on Windows

in the `web/fpPropelSimplePlugin` folder

`plugins/fpPropelSimplePlugin/web/images/test.png`



`http://localhost/fpPropelSimplePlugin/images/test.png`

Add some Model Classes

- config/schema.[xml|yaml]

```
<database name="propel"  
package="plugins.fpPropelSimplePlugin.lib.model" ...>
```

```
propel:  
  _attributes:  
    package: plugins.fpPropelSimplePlugin.lib.model
```

- You can have foreign keys between plugins and the main application

Example

sfSimpleBlogPlugin

Add some Configuration

- Make your plugin customizable
 - apps/APP/config/app.yml
 - Prefix with the plugin name
 - `sfConfig::get('app_fpPropelSimplePlugin_XXX');`
- config/config.php
 - Do whatever configuration you want

Example

- sfGuardPlugin

config/config.php

```
if (sfConfig::get('app_sfGuardPlugin_routes_register', true) && in_array('sfGuardAuth', sfConfig::get('sf_enabled_modules')))  
{  
    $r = sfRouting::getInstance();  
  
    // prepend our routes  
    $r->prependRoute('sf_guard_signin', '/login', array('module' => 'sfGuardAuth', 'action' => 'signin'));  
    $r->prependRoute('sf_guard_signout', '/logout', array('module' => 'sfGuardAuth', 'action' => 'signout'));  
    $r->prependRoute('sf_guard_password', '/request_password', array('module' => 'sfGuardAuth', 'action' => 'password'));  
}
```

apps/APP/config/app.yml

```
all:  
  sfGuardPlugin:  
    routes_register: false
```

Propel Behaviors

- sfPropelParanoidBehaviorPlugin

config/config.php

```
sfPropelBehavior::registerMethods('paranoid', array(
    array('sfPropelParanoidBehavior', 'forceDelete'),
));
sfPropelBehavior::registerHooks('paranoid', array(
    ':delete:pre' => array('sfPropelParanoidBehavior', 'preDelete'),
    'Peer:doSelectRS' => array('sfPropelParanoidBehavior', 'doSelectRS'),
));
```

Add some Modules

- Same structure as a « normal » module
 - You can move module from your application to the modules/ plugin folder
 - But you must « enable » it in settings.yml

```
all:~  
  .settings:~  
    enabled_modules: [default, sfErrorLogViewer, sfGuardAuth, sfMediaLibrary]~
```

Example

- sfGuardPlugin: Admin Generated modules
- sfSimpleCMSPlugin
 - Actions inheritance
 - Templates inheritance

Don't Reinvent the Wheel

- Don't add a security mechanism
 - Rely on symfony built-in credentials
 - Use other plugins (sfGuardPlugin)
- Don't add a media library
 - Use sfMediaLibraryPlugin
- Don't create yet another plugin to do client side validation
 - Try to enhance existing ones
 - Contact the main author to discuss your enhancements

Add a LICENSE file

- Choose an Open-Source license
 - MIT
 - BSD
 - LGPL
 - GPL
 - ...
- Add a LICENSE file in the root folder

Add a README file

- README structure
 - Installation
 - Configuration
 - Customization
 - Known Limitations
 - Todo List
 - Change Log
- Trac Wiki Format

Package a Plugin

- A symfony Plugin package is a PEAR package
- Add a package.xml
 - Name
 - Description
 - Summary
 - Author(s)
 - Version
 - Stability
 - Dependencies

```
<name>sfPropelParanoidBehaviorPlugin</name>
<channel>pear.symfony-project.com</channel>
<summary>Paranoid behavior for Propel.</summary>
<description>Paranoid behavior for Propel.</description>
<lead>
  <name>Fabien POTENCIER</name>
  <user>fabpot</user>
  <email>fabien.potencier@symfony-project.com</email>
  <active>yes</active>
</lead>
<date>2006-11-29</date>
<version>
  <release>1.0.1</release>
  <api>1.0.0</api>
</version>
<stability>
  <release>stable</release>
  <api>stable</api>
</stability>
<license uri="http://www.symfony-project.com/lic
```

```
<dependencies>
  <required>
    <php>
      <min>5.0.0</min>
    </php>
    <pearinstaller>
      <min>1.4.1</min>
    </pearinstaller>
    <package>
      <name>symfony</name>
      <channel>pear.symfony-project.com</channel>
      <min>1.0.0</min>
      <max>1.1.0</max>
      <exclude>1.1.0</exclude>
    </package>
  </required>
</dependencies>
```

Publish It

- For private usage
 - Host it somewhere

`symfony plugin-install http://plugins.xxx.com/fpPropelSimplePlugin-1.0.0.tgz`

- Host it on `symfony-project.com`
 - Must be released under an Open-Source license
 - The community helps you fix bugs and enhance it
 - Fame

On symfony-project.com

- Create a trac account
- Create a new Wiki page named after your plugin name

```
[[Include(source:plugins/sfPluginManagerPlugin/README, text/x-trac-wiki)]]  
  
== Active tickets ==  
  
[[TicketQuery(component=sfPluginManagerPlugin&status!=closed)]]
```

- Attach the PEAR package
- Ask Fabien for SVN access
- Spread the word... post on the mailing-list & the forum

Next symfony Workshops

En français : Paris, France - Dec 05, 2007

In English : Paris, France - Feb 13, 2008

More info on www.sensiolabs.com

Join Us

- Sensio Labs is recruiting in France
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 - web developers
- You have a passion for the web?
 - **Web Developer** : You have a minimum of 3 years experience in web development with Open-Source projects and you wish to participate to development of Web 2.0 sites using the best frameworks available.
 - **Project Manager** : You have more than 5 years experience as a developer and/or a project manager and you want to manage complex Web projects for prestigious clients.

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