



Symfony




from a Bird's Eye View

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ABOUT://ME

- My name is Philipp Rieber
- I am a PHP developer  
- I work at 
- I tweet @bicpi
- I have a homepage at <http://philipp-rieber.net>



WHAT IS SYMFONY?

*“First, Symfony2 is a reusable set of **standalone, decoupled, and cohesive** PHP components that solve common web development problems.”*

[Fabien Potencier]



Stopwatch

Finder

Process

Translation

ExpressionLanguage

Config

Guard

Asset

Debug

DomCrawler

CssSelector

Security

HttpKernel

OptionsResolver

HttpFoundation

DependencyInjection

Routing

Icu

Console

Ldap

EventDispatcher

Form

Validator

Yaml

Locale

Templating

Intl

BrowserKit

Filesystem

PropertyInfo

VarDumper

PropertyAccess

Serializer

ClassLoader



Stopwatch Finder Process Translation
ExpressionLanguage Config Guard
Asset Debug DomCrawler CssSelector
Security HttpKernel OptionsResolver
HttpFoundation DependencyInjection Routing
Icu Console Ldap EventDispatcher Form
Validator Ldap EventDispatcher Form
Yaml Locale Templating
Intl BrowserKit Filesystem PropertyInfo
VarDumper PropertyAccess Serializer ClassLoader



Yaml Component

```
$ composer require symfony/yaml
```

```
require 'vendor/autoload.php';

use Symfony\Component\Yaml\Yaml;

$yaml = <<<YAML
parameters:
    user: symfony
    pass: awesome
YAML;

$config = Yaml::parse($yaml);
// ['parameters' => ['user' => 'symfony', 'pass' => 'awesome']]
```

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Finder Component

```
$ composer require symfony/finder
```

```
require 'vendor/autoload.php';

use Symfony\Component\Finder\Finder;

$finder = new Finder();

$finder
    ->in( '/Users/bicpi/photos' )
    ->files()
    ->name( '*.jpg' )
    ->size( '>= 1M' );

foreach ( $finder as $file ) {
    echo $file->getFilename() . "\n";
}
```




Separation of Concerns

“Do one thing.
Make it excellent.
Stay out of the way.”

[Unix Philosophy]

- ...
- **Console** Command Line Interfaces
- **Filesystem** Basic utilities for the filesystem
- **Translation** Tools for internationalisation
- ...



WHAT ELSE IS SYMFONY?

*“Then, based on these components, Symfony2 is **also** a full-stack web framework.”*

[Fabien Potencier]



Your Application

Stopwatch

Finder

Process

Translation

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Asset

HttpKernel

DomCrawler

Security

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OptionsResolver

Icu

Your Application

Routing

Console

Form

EventDispatcher

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BrowserKit

Yaml

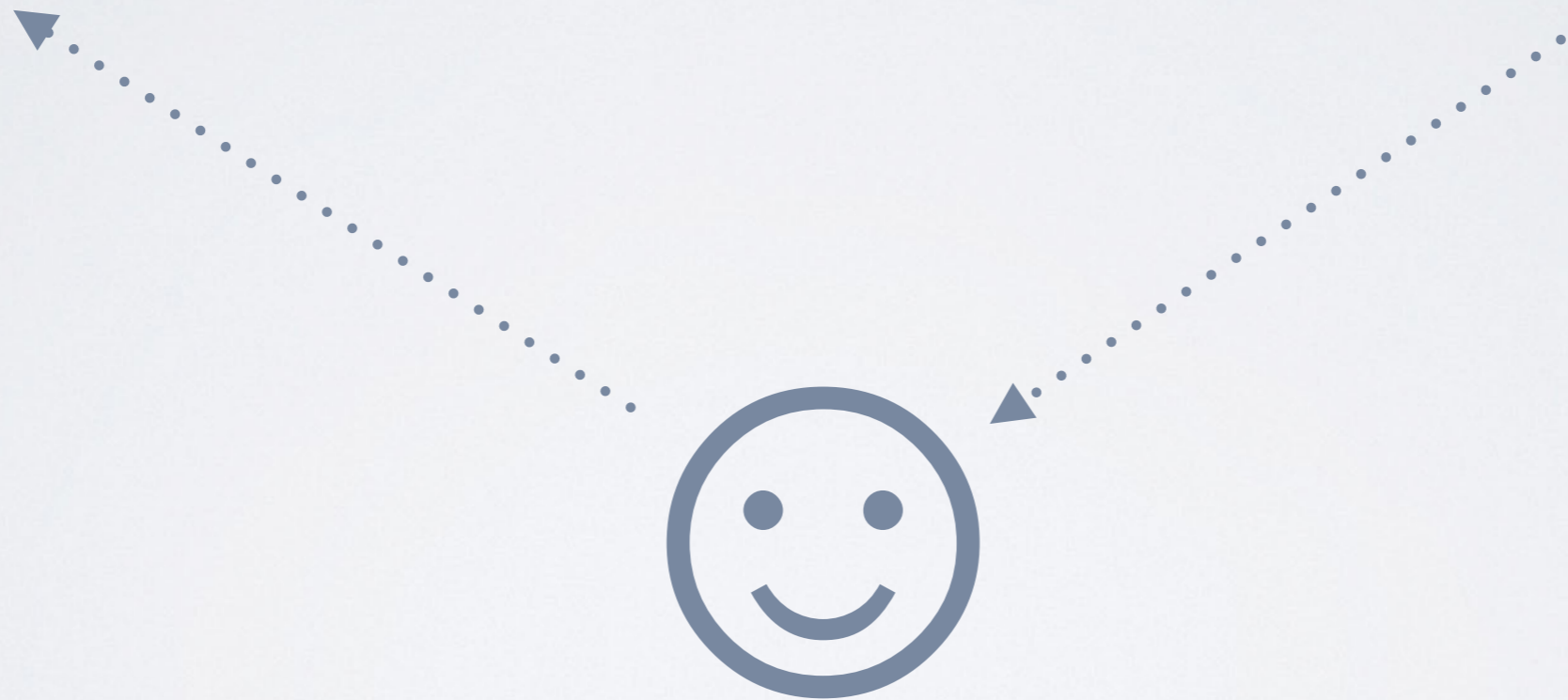
PropertyInfo

VarDumper

PropertyAccess

Serializer

ClassLoader



It is all about transforming a Request into a Response



HttpFoundation\Request

HTTP Header, \$_GET, \$_POST, \$_COOKIE, \$_SESSION, \$_SERVER



HttpKernel

Web framework core, "Glues" the components,
Loads configuration and "Bundles", Controls flow



HttpFoundation\Response

HTTP Status Code, HTTP Header, Content (HTML, JSON ...)

Request



/blog/article?id=34

```
class BlogController extends Controller
{
  /**
   * @Route("/blog/article")
   */
  public function articleAction(Request $request)
  {
    $id = $request->query->get('id');
    $article = $database->findArticle($id);
    if (!$article) {
      return new Response('Article not found.', 404);
    }

    $html = $view->renderArticle($article);

    return new Response($html, 200);
  }
}
```

Response



During the Request \Rightarrow Response flow,
many more components will assist

- **Routing** Match URL to controller action
- **Templating** Render templates
- **Security** Decide about access
- **Config** Load configuration
- **Forms** Create HTML forms
- **DependencyInjection** Decouple your services
- ...



BUNDLES

- ~ Plugins, but even better
- *Everything* in Symfony Full-Stack is a Bundle
- Yes, Symfony Full-Stack *itself* is a Bundle
- Core and custom code is in Bundles
- Registered in HttpKernel



SYMFONY ♥ STANDARDS

- PSR - PHP Standards Recommendations
- HTTP Specification



INNOVATIONS

(in the PHP world, at least ...)

- Git & GitHub
- Semantic Versioning - *Breaking.Feature.Fix*
- Dependency Injection
- Event Driven
- Popularize ORMs
- New level of code quality and architecture
- Command Line Tools

... just to name a few



SYMFONY "BY-PRODUCTS"

- Twig
- Composer
- Monolog
- Swiftmailer
- Silex
- PHP CS Fixer
- ...



SYMFONY'S COMMUNITY

(and SensioLabs)

- Outstanding Documentation
- Huge ecosystem of 3rd-party bundles
- Creates many "celebrities"
- Conferences
- Certification



SYMPHONY 3

Evolution, not Revolution



?

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- <http://symfony.com/>
- <https://github.com/symfony>
- <http://fabien.potencier.org/what-is-symfony2.html>
- http://symfony.com/doc/current/create_framework