

Symfony 2

Fabien Potencier

Who am I?

- Founder of Sensio
 - Web Agency
 - Since 1998
 - 70 people
 - Open-Source Specialists
 - Big corporate customers
- Creator and lead developer of symfony

How many of you have used symfony?

1.0? 1.1? 1.2?

symfony 1.0

- Started as a glue between existing Open-Source libraries:
 - Mojavi (heavily modified), Propel, Prado i18n, ...
- Borrowed concepts from other languages and frameworks:
 - Routing, CLI, functional tests, YAML, Rails helpers...
- Added new concepts to the mix
 - Web Debug Toolbar, admin generator, configuration cascade, ...

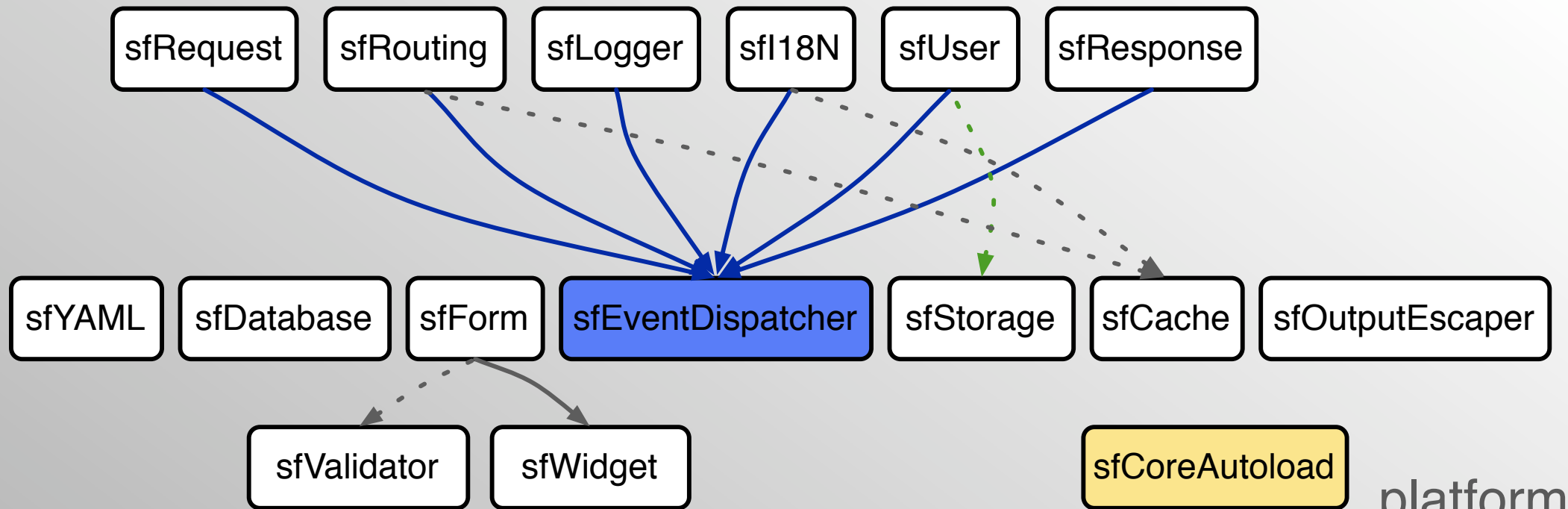
symfony 1.2

- Decoupled but cohesive components: the symfony platform
 - Forms, Routing, Cache, YAML, ORMs, ...
- Controller still based on Mojavi
 - View, Filter Chain, ...
- Could have been named 2.0 ;)

symfony platform

>= 1.1

2.0



symfony platform

```
require_once '/path/to/sfCoreAutoload.class.php';  
sfCoreAutoload::register();
```

```
$config = sfYaml::load(<<<EOF
config:
  key: value
  foo: [bar, foobar]
  bar: { bar: foo }
EOF
);
```

```
print_r($config);
echo sfYaml::dump($config);
```



```
$cache = new sfSQLiteCache(array(  
    'database' => dirname(__FILE__).'/cache.db'  
));  
$cache->set('foo', 'bar');  
echo $cache->get('foo');
```

Symfony 2 is an evolution of symfony 1

- Same symfony platform
- Different controller implementation
- Oh! Symfony now takes a capital S!!!

Symfony 2 main goals

Flexibility

Fast

Smart

Symfony 2: New components

Dependency Injection Container

Templating Framework

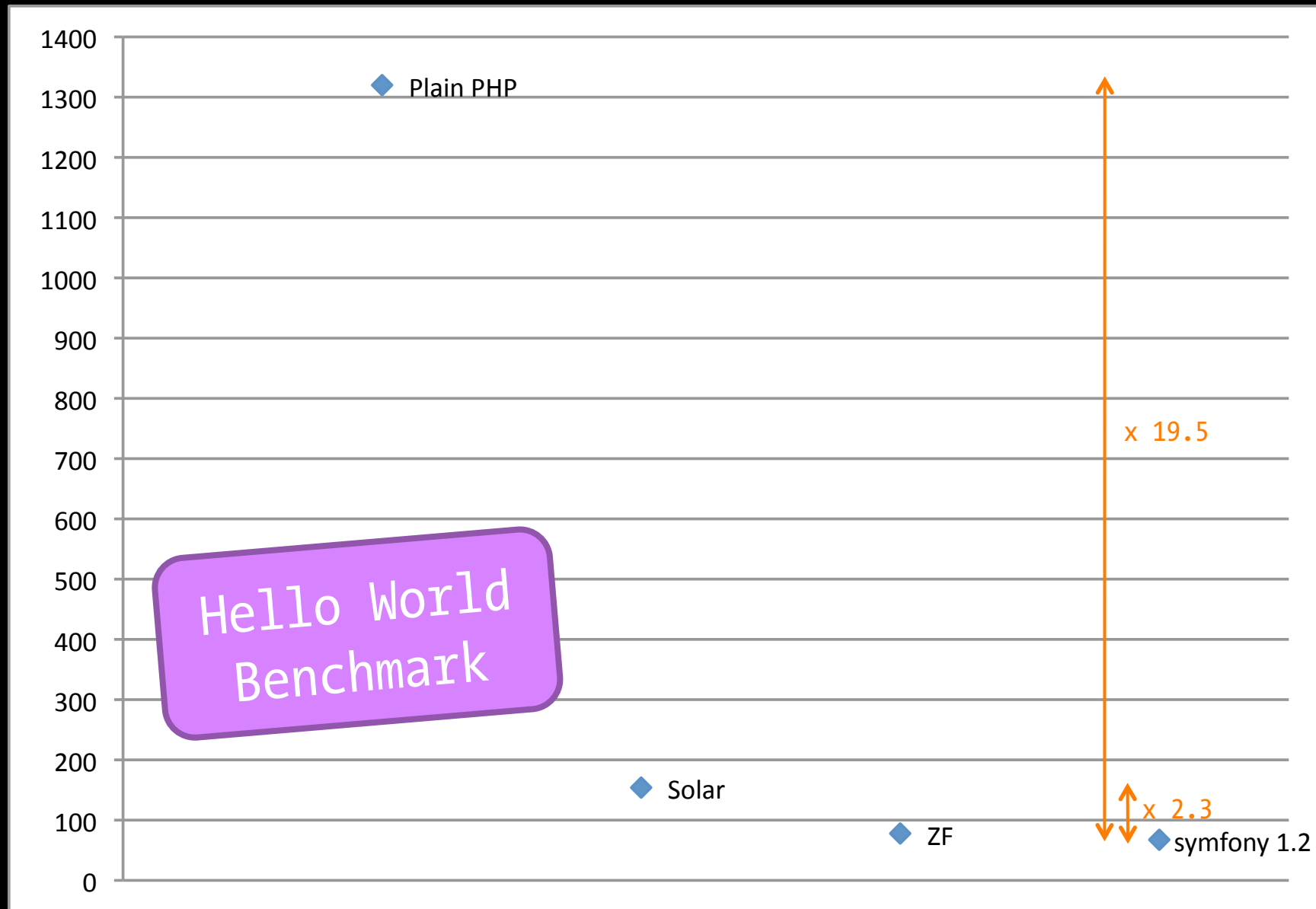
Controller Handling

Symfony 2

- Not yet available as a full-stack MVC framework
- Some components have already been merged into Symfony 1
 - Event Dispatcher
 - Form Framework
- Other new components will soon be released as standalone components:
 - Controller Handling
 - Templating Framework
 - Dependency Injection Container

symfony 1: Not fast enough?

symfony 1 is
one of the slowest framework
when you test it against
a simple Hello World application



based on numbers from <http://paul-m-jones.com/?p=315>

Conclusion?

Don't use symfony
for your next « Hello World » website

Use PHP ;)

By the way,
the fastest implementation
of a Hello World application with PHP:

```
die('Hello World');
```

But symfony 1 is probably fast enough
for your next website

... anyway, it is fast enough for Yahoo!

Yahoo! Bookmarks

sf-to.org/bookmarks

Yahoo! Answers

sf-to.org/answers

delicious.com

sf-to.org/delicious

... and recently
dailymotion.com announced
its migration to Symfony

sf-to.org/dailymotion

Secondmost popular video sharing website

One of the *top 50* websites in the world

42 million unique users in December

...and of course
many other smaller websites...

Symfony 2: Faster?

~~Symfony 2 core is so light and flexible
that you can easily customize it
to have outstanding performance
for a Hello World application~~

Symfony 2 core is so light and flexible
that its raw performance
is outstanding

```

require_once dirname(__FILE__).'/sf20/autoload2/sfCore2Autoload.class.php';
sfCore2Autoload::register();

$app = new HelloApplication();
$app->run()->send();

class HelloApplication
{
    public function __construct()
    {
        $this->dispatcher = new sfEventDispatcher();
        $this->dispatcher->connect('application.load_controller', array($this, 'loadController'));
    }

    public function run()
    {
        $request = new sfWebRequest($this->dispatcher);
        $handler = new sfRequestHandler($this->dispatcher);
        $response = $handler->handle($request);

        return $response;
    }

    public function loadController(sfEvent $event)
    {
        $event->setReturnValue(array(array($this, 'hello'), array($this->dispatcher, $event['request'])));

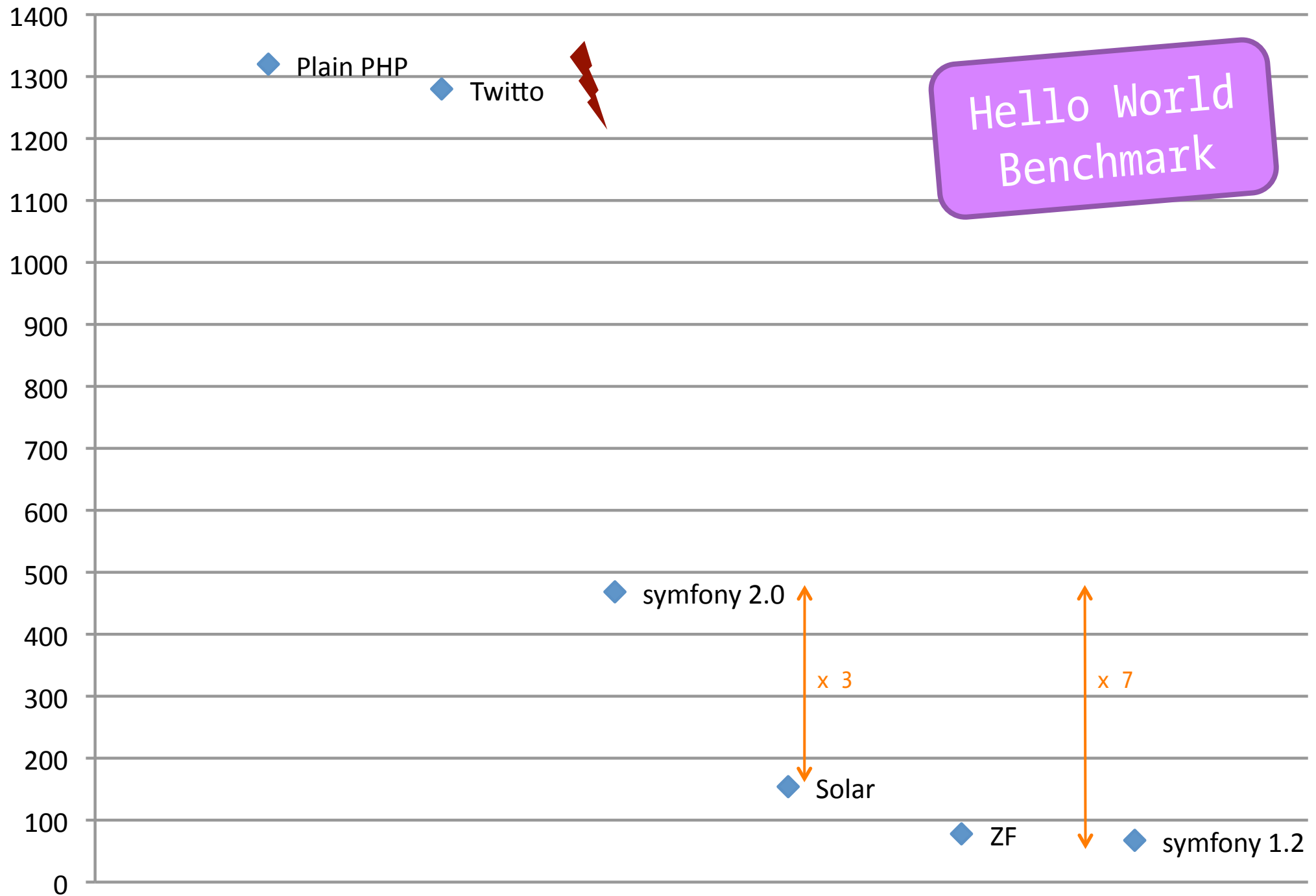
        return true;
    }

    public function hello($dispatcher, $request)
    {
        $response = new sfWebResponse($dispatcher);
        $response->setContent('Hello World');

        return $response;
    }
}

```

Hello World
with Symfony 2.0



Twitto ?!

Twitto: The PHP framework that fits in a tweet

- The fastest framework around?
- Uses some PHP 5.3 new features
- It also fits in a slide...

```
require __DIR__ . '/c.php';  
if (!is_callable($c = @$_GET['c']) ?:  
function() { echo 'Woah!'; })))  
    throw new Exception('Error');  
$c();
```

Twitto

A web framework in a tweet

```
require __DIR__ . '/c.php';  
if (!is_callable($c = @$_GET['c']) ?:  
    function() { echo 'Woah!'; })))  
    throw new Exception('Error');  
$c();
```

What is Twitto?

Twitto is the **fastest** PHP web framework, and the first to use the newest features of **PHP 5.3** — see "[Why PHP 5.3?](#)" below.

Packed in less than **140 characters**, it **fits in a tweet**.

Despite its size, Twitto is bundled with a **default controller**, is **5.3 STRICT** compliant, and **generates an error** if you try to access a controller that does not exist.

Published in 2009, Twitto is in the **Public Domain**. [Tweet me](#) if you find a bug!

Installation

Save the PHP code above in a `twitto.php` file somewhere under your web root directory.

Usage

By convention, Twitto looks for controllers in the `c.php` file under the same directory as the Twitto file.

twitto.org

Don't use Twitto for your next website
It is a joke ;)

7 times faster ?!

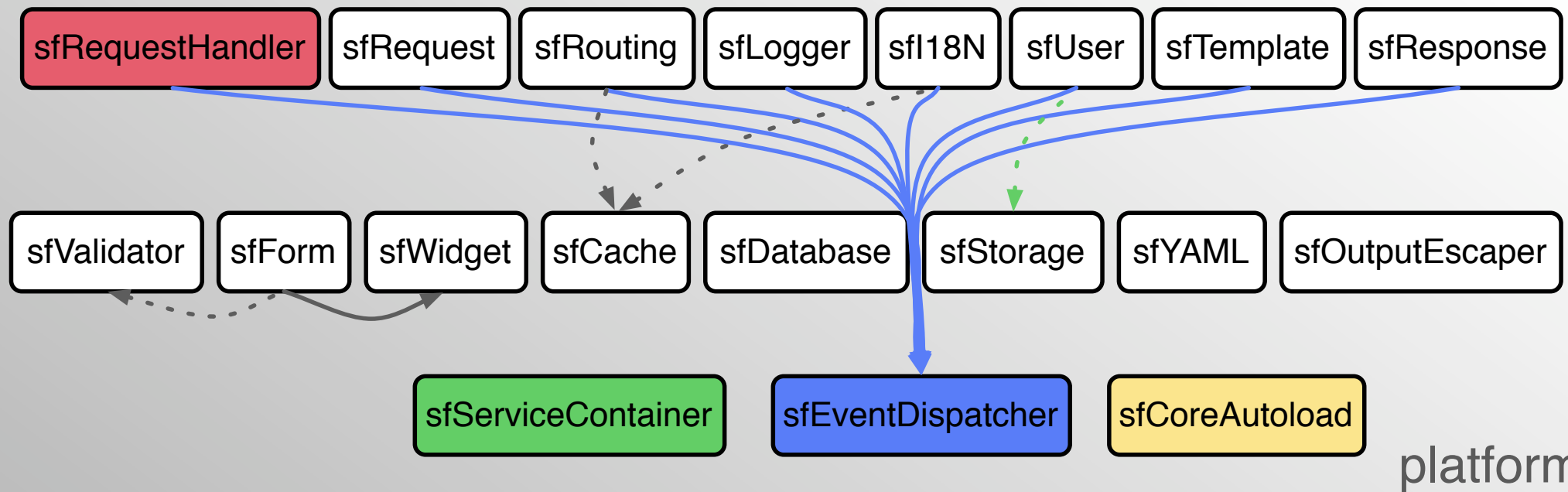
You won't have such a difference for real applications
as most of the time, the limiting factor
is not the framework itself

7 times faster ?!

- But raw speed matters because
 - It demonstrates that the core « kernel » is very light
 - It allows you to use several Symfony frameworks within a single application with the same behavior but different optimizations:
 - One full-stack framework optimized for ease of use (think symfony 1)
 - One light framework optimized for speed (think Rails Metal ;))

symfony platform

2.0



Symfony 2 ~~kernel~~:

The Request Handler

Symfony 2 secret weapon:

The Request Handler

The Request Handler

- The backbone of Symfony 2 controller implementation
- Class to build web frameworks, not only MVC ones
- Based on a simple assumption:
 - The input is a request object
 - The output is a response object
- The request object can be anything you want
- The response object must implement a `send()` method



The Request Handler

```
$handler = new sfRequestHandler($dispatcher);
```

```
$request = new sfWebRequest($dispatcher);
```

```
$response = $handler->handle($request);
```

```
$response->send();
```

The Request Handler

- The `sfRequestHandler` does several things:
 - Notify events
 - Execute a callable (the controller)
 - Ensure that the Request is converted to a Response object
- The framework is responsible for choosing the controller
- The controller is responsible for the conversion of the Request to a Response


```

class sfRequestHandler
{
    protected $dispatcher = null;

    public function __construct(sfEventDispatcher $dispatcher)
    {
        $this->dispatcher = $dispatcher;
    }

    public function handle($request)
    {
        try
        {
            return $this->handleRaw($request);
        }
        catch (Exception $e)
        {
            $event = $this->dispatcher->notifyUntil(new sfEvent($this, 'application.exception', array('request' => $request, 'exception' => $e)));
            if ($event->isProcessed())
            {
                return $this->filterResponse($event->getReturnValue(), 'An "application.exception" listener returned a non response object.');
```

sfRequestHandler
is less than 100
lines of PHP
code!

Request Handler Events

`application.request`

`application.load_controller`

`application.controller`

`application.view`

`application.response`

`application.exception`

`application.response`

As the very last event notified, a listener can modify the Response object just before it is returned to the user

application.request

- The very first event notified
- It can act as a short-circuit event
- If one listener returns a Response object, it stops the processing

application.load_controller

- Only event for which at least one listener must be connected to
- A listener must return
 - A PHP callable (the controller)
 - The arguments to pass to the callable

`application.view`

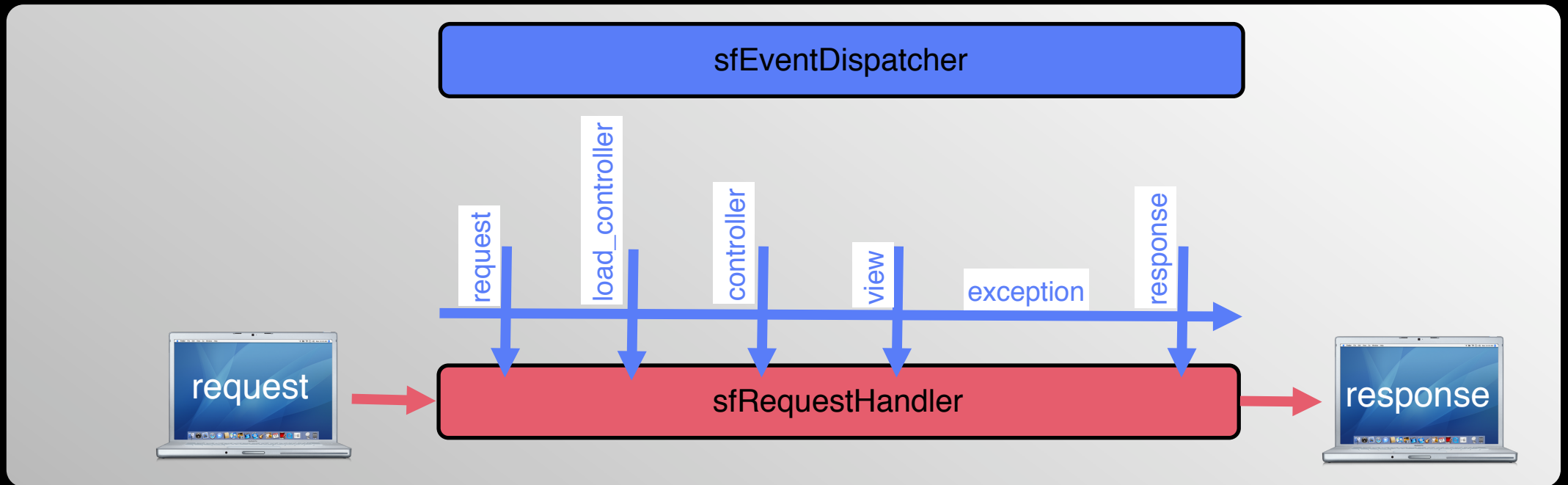
The controller must return a Response object
except if a listener can convert
the controller return value to a Response

`application.exception`

The request handler catches all exceptions
and give a chance to listeners
to return a Response object

Request Handler

- Several listeners can be attached to a single event
- Listeners are called in turn




```

require_once dirname(__FILE__).'/sf20/autoload2/sfCore2Autoload.class.php';
sfCore2Autoload::register();

$app = new HelloApplication();
$app->run()->send();

class HelloApplication
{
    public function __construct()
    {
        $this->dispatcher = new sfEventDispatcher();
        $this->dispatcher->connect('application.load_controller', array($this, 'loadController'));
    }

    public function run()
    {
        $request = new sfWebRequest($this->dispatcher);
        $handler = new sfRequestHandler($this->dispatcher);
        $response = $handler->handle($request);

        return $response;
    }

    public function loadController(sfEvent $event)
    {
        $event->setReturnValue(array(array($this, 'hello'), array($this->dispatcher, $event['request'])));

        return true;
    }

    public function hello($dispatcher, $request)
    {
        $response = new sfWebResponse($dispatcher);
        $response->setContent('Hello World');

        return $response;
    }
}

```

Hello World
with Symfony 2.0

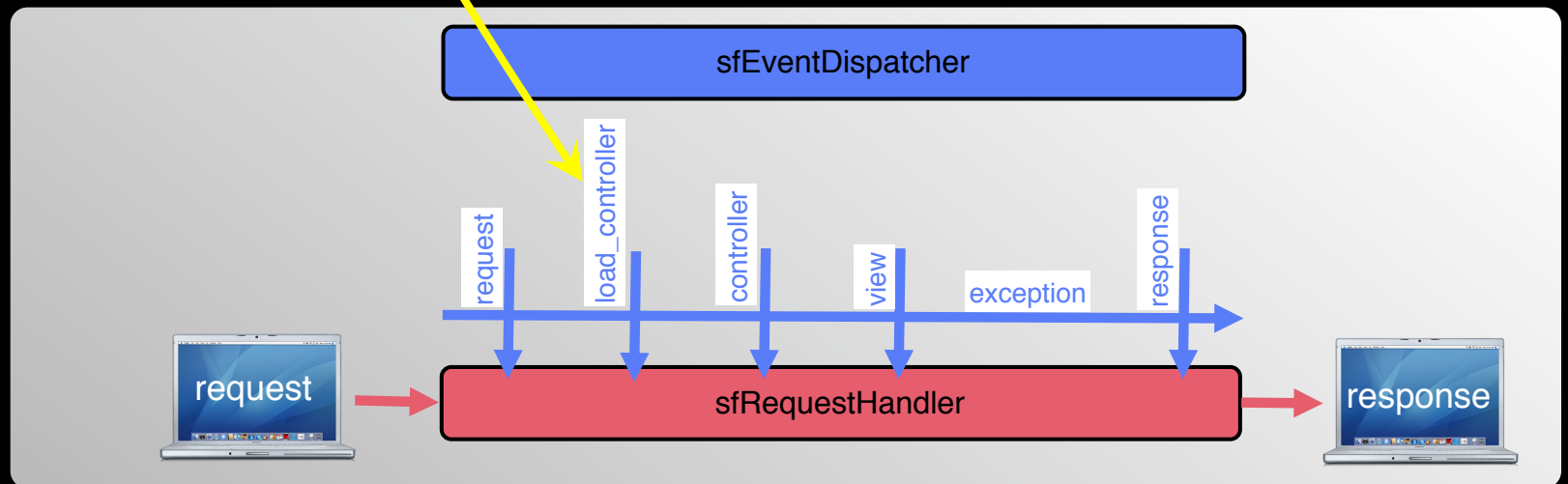
```
require_once '/path/to/sfCore2Autoload.class.php';  
sfCore2Autoload::register();
```

```
$app = new HelloApplication();  
$app->run()->send();
```

```

public function __construct()
{
    $this->dispatcher = new sfEventDispatcher();
    $this->dispatcher->connect(
        'application.load_controller',
        array($this, 'loadController')
    );
}

```



```
public function loadController(sfEvent $event)
{
    $event->setReturnValue(array(
        array($this, 'hello'),
        array($this->dispatcher, $event['request'])
    ));

    return true;
}
```

```
public function hello($dispatcher, $request)
{
    $response = new sfWebResponse($dispatcher);
    $response->setContent('Hello World');

    return $response;
}
```

```
public function run()
{
    $request = new sfWebRequest($this->dispatcher);
    $handler = new sfRequestHandler($this->dispatcher);
    $response = $handler->handle($request);

    return $response;
}
```

Case study: dailymotion.com

- The problem: the Dailymotion developers add new features on a nearly everyday basis
- The challenge: Migrate by introducing small doses of Symfony goodness
- The process
 - Wrap everything with `sfRequestHandler` by implementing an `application.load_controller` listener that calls the old code, based on the request
 - Migrate the `mod_rewrite` rules to the symfony routing
 - Add unit and functional tests

Symfony 2: The Templating Framework

New Templating Framework

- 4 components
 - Template Engine
 - Template Renderers
 - Template Loaders
 - Template Storages
- Independant library

```
require_once '/path/to/sfCore2Autoload.class.php';  
sfCore2Autoload::register();  
  
$dispatcher = new sfEventDispatcher();  
  
$loader = new sfTemplateLoaderFilesystem($dispatcher,  
    '/path/to/templates/%s.php');  
  
$t = new sfTemplateEngine($dispatcher, $loader);  
  
echo $t->render('index', array('name' => 'Fabien'));
```

Template Loaders

- No assumption about where and how templates are to be found
 - Filesystem
 - Database
 - Memory
 - ...
- Template names are « logical » names:

```
$loader = new sfTemplateLoaderFilesystem($dispatcher,  
    '/path/to/templates/%s.php');
```

Template Renderers

- No assumption about the format of the templates
- Template names are prefixed with the renderer name:
 - index == php:index
 - user:index

```
$t = new sfTemplateEngine($dispatcher, $loader, array(  
    'user' => new ProjectTemplateRenderer($dispatcher),  
    'php'  => new sfTemplateRendererPhp($dispatcher),  
));
```

Template Embedding

Hello <?php echo \$name ?>

<?php \$this->render('embedded', array('name' => \$name)) ?>

<?php \$this->render('smarty:embedded') ?>

Template Inheritance

```
<?php $this->decorator('layout') ?>
```

```
Hello <?php echo $name ?>
```

```
<html>  
  <head>  
  </head>  
  <body>  
    <?php $this->output('content') ?>  
  </body>  
</html>
```

Template Slots

```
<html>
  <head>
    <title><?php $this->output('title') ?></title>
  </head>
  <body>
    <?php $this->output('content') ?>
  </body>
</html>
```

```
<?php $this->set('title', 'Hello World! ') ?>
```

```
<?php $this->start('title') ?>
  Hello World!
<?php $this->stop() ?>
```


Template Multiple Inheritance

A layout can be decorated by another layout

Each layout can override slots

Templating: An example

CMS Templating

- Imagine a CMS with the following features:
 - The CMS comes bundled with default templates
 - The developer can override default templates for a specific project
 - The webmaster can override some templates
- The CMS and developer templates are stored on the filesystem and are written with pure PHP code
- The webmaster templates are stored in a database and are written in a simple templating language: `Hello {{ name }}`

CMS Templating

- The CMS has several built-in sections and pages
 - Each page is decorated by a layout, depending on the section
 - Each section layout is decorated by a base layout

cms/templates/
base.php
articles/
layout.php
article.php

project/templates/
base.php
articles/
layout.php
article.php
content.php

articles/content.php

```
<h1>{{ title }}</h1>
```

```
<p>
```

```
    {{ content }}
```

```
</p>
```

articles/article.php

```
<?php $this->decorator('articles/layout') ?>
```

```
<?php $this->set('title', $title) ?>
```

```
<?php echo $this->render(  
    'user:articles/content',  
    array('title' => $title, 'content' => $content)  
) ?>
```

articles/layout.php

```
<?php $this->decorator('base') ?>
```

```
<?php $this->set('title', 'Articles | '.$this->get('title')) ?>
```

```
<?php $this->start('head') ?>
```

```
    <?php $this->output('head') ?>
```

```
    <link rel="stylesheet" type="text/css" media="all" href="/css/
articles.css" />
```

```
<?php $this->stop() ?>
```

```
<?php $this->output('content') ?>
```

base.php

```
<html>
  <head>
    <title>
      <?php $this->output('title') ?>
    </title>
    <?php $this->output('head') ?>
  </head>
  <body>
    <?php $this->output('content') ?>
  </body>
</html>
```


Template Renderer

```
$t = new sfTemplateEngine($dispatcher, $loader, array(  
    'user' => new ProjectTemplateRenderer($dispatcher),  
    'php'  => new sfTemplateRendererPhp($dispatcher),  
));
```

Template Renderer

```
class ProjectTemplateRenderer extends sfTemplateRenderer
{
    public function evaluate($template, array $parameters = array())
    {
        if ($template instanceof sfTemplateStorageFile)
        {
            $template = file_get_contents($template);
        }

        $this->parameters = $parameters;

        return preg_replace_callback('/{{\s*(.+?)\s*}}/', array($this,
'replaceParameters'), $template);
    }

    public function replaceParameters($matches)
    {
        return isset($this->parameters[$matches[1]]) ? $this->parameters[$matches[1]] :
null;
    }
}
```

Template Loaders

```
$loader = new sfTemplateLoaderFilesystem($dispatcher,  
    array(  
        '/path/to/project/templates/%s.php',  
        '/path/to/cms/templates/%s.php'  
    ));
```

Template Loader Chain

```
$loader = new sfTemplateLoaderChain($dispatcher, array(
    new ProjectTemplateLoader(
        $dispatcher, array('pdo' => $pdo)),
    new sfTemplateLoaderFilesystem($dispatcher, array(
        '/path/to/project/templates/%s.php',
        '/path/to/cms/templates/%s.php'
    )),
));
```

Database Template Loader

```
class ProjectTemplateLoader extends sfTemplateLoader
{
    public function load($template)
    {
        $stmt = $this->options['pdo']->prepare('SELECT tpl FROM tpl WHERE name = :name');
        try
        {
            $stmt->execute(array('name' => $template));
            if (count($rows = $stmt->fetchAll(PDO::FETCH_NUM)))
            {
                return $rows[0][0];
            }
        }
        catch (PDOException $e)
        {
        }

        return false;
    }
}
```

Database Template Loader

```
$pdo = new PDO('sqlite::memory:');  
$pdo->exec('CREATE TABLE tp1 (name, tp1)');  
$pdo->exec('INSERT INTO tp1 (name, tp1) VALUES  
("articles/content", "{{ title }} {{ name }}")');
```

Template Loader Cache

```
$loader = new sfTemplateLoaderCache(  
    $dispatcher,  
    $loader,  
    new sfFileCache(array('dir' => 'path/to/cache'))  
);
```

```
$pdo = new PDO('sqlite::memory:');  
$pdo->exec('CREATE TABLE tpl (name, tpl)');  
$pdo->exec('INSERT INTO tpl (name, tpl) VALUES ("articles/content", "{{ title }}  
{{ name }}")');
```

```
$loader = new sfTemplateLoaderCache(  
    $dispatcher,  
    new sfTemplateLoaderChain($dispatcher, array(  
        new ProjectTemplateLoader($dispatcher, array('pdo' => $pdo)),  
        new sfTemplateLoaderFilesystem($dispatcher, array(  
            '/path/to/project/templates/%s.php',  
            '/path/to/cms/templates/%s.php'  
        )),  
    )),  
    new sfFileCache(array('dir' => 'path/to/cache'))  
);
```

```
$t = new sfTemplateEngine($dispatcher, $loader, array(  
    'user' => new ProjectTemplateRenderer($dispatcher)  
));
```

```
$t->render('articles/article', array('title' => 'Title', 'content' => 'Lorem...'));
```


Symfony 2: Dependency Injection Container

« Dependency Injection is where components are given their dependencies through their constructors, methods, or directly into fields. »

<http://www.picocontainer.org/injection.html>

The Symfony 2 dependency injection container replaces several symfony 1 concepts into one integrated system:

- sfContext
- sfConfiguration
- sfConfig
- factories.yml
- settings.yml / logging.yml / i18n.yml

DI Hello World example

```
class Message
{
    public function __construct(OutputInterface $output, array $options)
    {
        $this->output = $output;
        $this->options = array_merge(array('with_newline' => false), $options);
    }

    public function say($msg)
    {
        $this->output->render($msg.($this->options['with_newline'] ? "\n" : ''));
    }
}
```

DI Hello World example

```
interface OutputInterface
{
    public function render($msg);
}

class Output implements OutputInterface
{
    public function render($msg)
    {
        echo $msg;
    }
}

class FancyOutput implements OutputInterface
{
    public function render($msg)
    {
        echo sprintf("\033[33m%s\033[0m", $msg);
    }
}
```

DI Hello World example

```
$output = new FancyOutput();  
$message = new Message($output, array('with_newline' => true));  
$message->say('Hello World');
```

A DI container facilitates
objects description and object relationships,
configures and instantiates objects

DI Container Hello World example

```
$container = new sfServiceContainer();

$outputDef = new sfServiceDefinition('FancyOutput');
$container->setServiceDefinition('output', $outputDef);

$msgDef = new sfServiceDefinition(
    'Message',
    array(new sfServiceReference('output'), array('with_newline' => true))
);
$container->setServiceDefinition('message', $msgDef);

$container->message->say('Hello World!');
```



```
$message = $container->message;
```

Get the configuration for the message service

The Message constructor must be given an output service

Get the output object from the container

Create a Message object by passing the constructor arguments

```
$message = $container->message;
```

is roughly equivalent to

```
$output = new FancyOutput();  
$message = new Message($output, array('with_newline' => true));
```

```
$container = new sfServiceContainer();

$msgDef = new sfServiceDefinition(
    'Message',
    array(new sfServiceReference('output'), array('with_newline' => true))
);
$outputDef = new sfServiceDefinition('FancyOutput');

$container->setServiceDefinition('message', $msgDef);
$container->setServiceDefinition('output', $outputDef);
```

PHP

```
<services>
  <service id="output" class="FancyOutput" />

  <service id="message" class="Message">
    <argument type="service" id="output" />
    <argument type="collection">
      <argument key="with_newline">true</argument>
    </argument>
  </service>
</services>
```

XML

```
$container = new sfServiceContainer(new sfServiceLoaderXml());
$container->load('services.xml');
```

```
<services>
  <parameters>
    <parameter key="output.class">FancyOutput</parameter>
    <parameter key="message.options" type="collection">
      <parameter key="with_newline">true</parameter>
    </parameter>
  </parameters>

  <service id="output" class="%output.class%" />

  <service id="message" class="Message">
    <argument type="service" id="output" />
    <argument>%message.options%</argument>
  </service>
</services>
```

```
$container = new sfServiceContainer(new sfServiceLoaderXml());
$container->load('services.xml');
```

```
<services>
  <import resource="config.xml" />

  <service id="output" class="%output.class%" />
  <service id="message" class="Message">
    <argument type="service" id="output" />
    <argument>%message.options%</argument>
  </service>
</services>
```

```
<services>
  <parameters>
    <parameter key="output.class">FancyOutput</parameter>
    <parameter key="message.options" type="collection">
      <parameter key="with_newline">true</parameter>
    </parameter>
  </parameters>
</services>
```

```
$container = new sfServiceContainer(new sfServiceLoaderXml());
$container->load('services.xml');
```

```
<services>
  <import resource="config.yml" class="sfServiceLoaderYamlParameters" />

  <service id="output" class="%output.class%" />
  <service id="message" class="Message">
    <argument type="service" id="output" />
    <argument>%message.options%</argument>
  </service>
</services>
```

output.class: FancyOutput

message.options:
 with_newline: true

```
$container = new sfServiceContainer(new sfServiceLoaderXml());
$container->load('services.xml');
```

```
$pdo = new PDO('sqlite::memory:');  
$pdo->exec('CREATE TABLE tp1 (name, tp1)');  
$pdo->exec('INSERT INTO tp1 (name, tp1) VALUES ("articles/content", "{{ title }}  
{{ name }}")');
```

```
$loader = new sfTemplateLoaderCache(  
    $dispatcher,  
    new sfTemplateLoaderChain($dispatcher, array(  
        new ProjectTemplateLoader($dispatcher, array('pdo' => $pdo)),  
        new sfTemplateLoaderFilesystem($dispatcher, array(  
            '/path/to/project/templates/%s.php',  
            '/path/to/cms/templates/%s.php'  
        )),  
    )),  
    new sfFileCache(array('dir' => 'path/to/cache'))  
);
```

```
$t = new sfTemplateEngine($dispatcher, $loader, array(  
    'user' => new ProjectTemplateRenderer($dispatcher)  
));
```

```
$t->render('articles/article', array('title' => 'Title', 'content' => 'Lorem...'));
```

```
$pdo = new PDO('sqlite::memory:');
```

```
<service id="pdo" class="PDO">  
  <argument>sqlite::memory:</argument>  
</service>
```



```
$container = new sfServiceContainer(new sfServiceLoaderXml());  
$container->load(dirname(__FILE__).'/cms.xml');  
  
$pdo->exec('CREATE TABLE tpl (name, tpl)');  
$pdo->exec('INSERT INTO tpl (name, tpl) VALUES ("articles/content",  
"{{ title }} {{ name }}"');  
  
echo $container->template->render('articles/article', array('title' => 'Title',  
'content' => 'Lorem...'));
```

```
<services>
  <import resource="config.yml" class="sfServiceLoaderYamlParameters" />
  <import resource="template_loader.xml" />

  <service id="event_dispatcher" class="sfEventDispatcher" />

  <service id="pdo" class="PDO">
    <argument>sqlite::memory:</argument>
  </service>

  <service id="template_renderer" class="ProjectTemplateRenderer" lazy="true">
    <argument type="service" id="event_dispatcher" />
  </service>

  <service id="template" class="sfTemplateEngine" lazy="true">
    <argument type="service" id="event_dispatcher" />
    <argument type="service" id="template_loader" />
    <argument type="collection">
      <argument type="service" key="user" id="template_renderer" />
    </argument>
  </service>
</services>
```

```
<services>
  <service id="template_loader_project" class="ProjectTemplateLoader">
    <argument type="service" id="event_dispatcher" />
    <argument type="collection"><argument type="service" key="pdo" id="pdo" /></argument>
  </service>

  <service id="template_loader_filesystem" class="sfTemplateLoaderFilesystem">
    <argument type="service" id="event_dispatcher" />
    <argument>%template.filesystem_pattern%</argument>
  </service>

  <service id="template_loader_chain" class="sfTemplateLoaderChain">
    <argument type="service" id="event_dispatcher" />
    <argument type="collection">
      <argument type="service" id="template_loader_project" />
      <argument type="service" id="template_loader_filesystem" />
    </argument>
  </service>

  <service id="template_loader_cache" class="sfFileCache">
    <argument type="collection"><argument key="cache_dir">%application.dir%/cache</argument></argument>
  </service>

  <service id="template_loader" class="sfTemplateLoaderCache" lazy="true">
    <argument type="service" id="event_dispatcher" />
    <argument type="service" id="template_loader_chain" />
    <argument type="service" id="template_cache" />
  </service>
</services>
```

```

<services>
  <service id="template_loader" class="sfTemplateLoaderCache" lazy="true">
    <argument type="service" id="event_dispatcher" />
    <argument type="service">
      <service class="sfTemplateLoaderChain">
        <argument type="service" id="event_dispatcher" />
        <argument type="collection">
          <argument type="service">
            <service class="ProjectTemplateLoader">
              <argument type="service" id="event_dispatcher" />
              <argument type="collection"><argument type="service" key="pdo" id="pdo" /></argument>
            </service>
          </argument>
          <argument type="service">
            <service class="sfTemplateLoaderFilesystem">
              <argument type="service" id="event_dispatcher" />
              <argument>%template.filesystem_patterns%</argument>
            </service>
          </argument>
        </argument>
      </service>
    </argument>
    <argument type="service">
      <service class="sfFileCache">
        <argument type="collection"><argument key="cache_dir">%application.dir%/cache</argument></
argument>
      </service>
    </argument>
  </service>
</services>

```

Questions?

Sensio S.A.

92-98, boulevard Victor Hugo

92 115 Clichy Cedex

FRANCE

Tél. : +33 1 40 99 80 80

Contact

Fabien Potencier

fabien.potencier at sensio.com

<http://www.sensiolabs.com/>

<http://www.symfony-project.org/>

<http://fabien.potencier.org/>