

Control

Controller

```
Extending the default controller
namespace
    Demo\BlogBundle\Controller;

use Symfony\Bundle\FrameworkBundle\Controller;

class BlogController extends Controller
{
    public function showAction($id, $comments=false)
    {
        return $this->render('DemoBlogBundle:Blog:idx.html.twig', array('id' => $id));
    }
}
```

Method names must end with **Action**. Method parameters are defined in the route and are referenced by name. (Order does not matter) You can use `$this->container` to access the service container or get a service via `$this->get(...)`. The Parameters you pass to the `render` method are available in the twig template.

```
Redirection and flash message
use Symfony\Component\HttpFoundation\RedirectResponse;
...
$this->get('session')->setFlash('notice', 'Comment saved.');
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Flash message is available in session on next request. See templating section for how to show flashes. Second parameter of `RedirectResponse` is optional, tells the HTTP status code. Defaults to 302, moved temporarily.

```
Controller as a service
namespace
    Demo\BlogBundle\Controller;

use Symfony\Component\HttpFoundation\Response;

class BlogController
{
    public function __construct(Stempling)
    {
        $this->templating = $stempling;
    }

    public function showAction($id)
    {
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    }
}
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Do not extend the Controller class. Inject everything you need explicitly, i.e. in the constructor. Configure this class as service `demo.blog.blog_controller` (see Dependency Injection in Service Container section). See <http://bit.ly/symfony-service> for more.

Routing

```
Route with parameters
blog:
    pattern: /blog/{id}
    defaults: { _controller: DemoBlogBundle:Blog:show, id: 123 }
    requirements:
        id: ^\d+
```

- To define parameters, put the name in curly brackets `{id}`.
- The defaults tell which controller to use and can be used to make URL parameters optional. This entry will match `/blog` or `/blog/53`.
- The requirements allow to define a regular expression for each parameter. This entry will only match numerical ids, but not for example `/blog/abc`.

Generating a route `$router->generate('blog', array('id' => 222), false);`

- The default router is available in the container as `router`. Either inject it with Dependency Injection or when extending the base controller, use `$this->get('router')` to fetch the service.
- First parameter is the **route name**, (the top level token in the yaml configuration)
- Second parameter is optional, specifies values for a route's parameters.
- Third parameter tells whether to generate an absolute URL. Defaults to false.

```
Routes and i18n
about:
    pattern: /[_locale]/about
    defaults: { _controller: DemoBlogBundle:Blog:about, _locale: de }
    requirements:
        _locale: en|de
```

- The `_Locale` is used as the session locale. /about is the german page, /en/about the english one.

```
Routing to a controller service
blog:
    pattern: /blog/{id}
    defaults: { _controller: demo_blog_controller, showAction }
```

When referencing the controller as a service (see chapter „Service Container“), you need to write the full method name. You can also call something that does not end on Action).

View

```
Twig
{% .. %} DOES something
{{ .. }} PRINTS something

Variables
{{ date }}
{{ a.author ~ „ - “ ~ date }}
```

- author will be resolved as:
- a is an array and author a valid index
- a is object and
 - there is a public author property
 - there is a public author () method
 - there is a public getAuthor () method
 - there is a public isAuthor () method
 - otherwise will result in null

Built-in operators:

- Math: +, -, /, %, /, *, **
- Others: !, !~, !|, !&

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```

```
for k in blog.arts|keys %}
<a href="/blog/article/{k}|{Article No {k }|</a>
{% endfor %}
```

```
loop iterating over sequence
{% for i in 'x'..'z' %}
    {{ i }}
{% endfor %}
{% output: x y z %}
{% for i in 0..6 %}
    {{ i }}
{% endfor %}
{% output: 0 1 2 3 4 5 6 %}
```

```
loop with filter, loop and alternative if empty
{% for a in blog.arts if a.published %}
    <p>{{ a.body }}</p>
{% endfor %}
{% for a in blog.arts %}
    <p>{{ a.body }}</p>
{% else %}
    <p>No content.</p>
{% endfor %}
```

```
Comments
{# This is the comment tag.
It can be used for multi-
or single-line #}
```

```
Translation
With a configured translator, internationalization is very easy to use with Twig:
<head>
<title>example.com //
{# trans %}About{# endtrans %}
</title>
</head>
```

```
Internal Links
They are generated using the routes' names:
{# relative URL #}
<a href="{ path('about') }">
    About me</a>
{# absolute URL with params #}
<a href="{ url('article',
'id': 42) }">My favorite article</a>
```

```
Flash messages
If you have set a flash message, you can access it like this:
{% if app.session.flash('error') %}
    <p class="auth-errors">
        {{ app.session.flash('error') }}
    </p>
{% endif %}
```

```
Compose templates
Includes
Templates can include other templates. This concept is sometimes referred to as partials. The bundle name is expanded to the folder Resources/View inside that bundle folder. If omitted, the current bundle is used. It is possible to pass parameters to the included template.
<div id="header">{# include 'DemoBlogBundle:Blog:header.html' with {'title': article.title }}</div>
<div id="sidebar">
    {# include 'rab.html' %}
</div>
<div id="content">...</div>
```

```
Functionality for conditions:
Tests: constant, defined, divisibleby, empty, even, in, is, null, odd, someas
Logic: and, or, not
Comparisons: ==, !=, >, <, >=, <=, ==
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- Blocks can be overridden by inheriting templates.
- Inheritance is defined by using the `extends` tag.
- Inheriting templates can call the parent-block

```
Top-Level Template
base.html.twig
<title>My Blog | {# block title %}
</title>
<body>
<div id="sidebar">...</div>
<div id="content">
    {# block content %}
    <div id="statistics">Page views: {{ page_views }}
    </div>
</div>
</body>
```

```
Annotations
class Article
{
    /**
     * @ORM\Id
     * @ORM\Column(type="integer")
     * @ORM\GeneratedValue
     */
    protected $id;
    /**
     * @ORM\Column(type="string")
     */
    protected $title;
}
```

We recommend using annotations for the meta data, as it keeps all information about the entity in one file.

```
Associations
http://bit.ly/symfony-associations
Doctrine2 handles 1:1, 1:n and n:m associations and supports all kind of special cases. A very basic example of a bidirectional 1:n association is the one between blog articles and comments:
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Entity Manager and Entity Objects
Central API of Doctrine2 for finding, deleting, persisting and accessing repositories:
// Sem is the EntityManager
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```

Custom repository classes help organizing special find operations for one entity class.

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Metadata Doctrine2
To enable Doctrine2 to map database entities to entity objects correctly, you must provide a description using one of the following:
```

- XML description files
- YAML description files
- a script PHP description
- or DocBlock annotations

All metadata description approaches are semantically almost identical.

```
XML mapping
<doctrine-mapping xmlns="..."
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:schemaLocation="..."
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<entity name="DemoBlogBundle\Entity\Article"
table="article"
id="name" idType="integer"
column="id">
<generator strategy="AUTO">
```

Inheritance
http://bit.ly/symfony-inheritance
There are three ways of mapping inheritance into a relational database schema which are supported by Doctrine2:

- Mapped Superclasses: No sharing of fields in the database. Each type of object is stored in a separate table with no inheritance.
- Single Table Inheritance: All objects of a type hierarchy are stored in one table. Specific columns („discriminator columns“) determine the type of object.
- Class Table Inheritance: For every class there is a separate table in the database. However, common attributes are managed in „base tables“.

All three mechanisms can be described with annotations. In each case, the superclass gets the annotation describing the kind of inheritance used:

```
Rendering a form
<form action="{ path('blog_new') }" method="post"
{{ form_enctype(form) }}
{{ form_widget(form) }}
<input type="submit" />
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class Article
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The getSubscribedEvents() function has to return an array of 'event name' => function name on this object (or an array of function name, priority).

The subscriber is added to the event dispatcher with the SubscriberInterface::addSubscriber(new NewPostEventSubscriber());

```
The event
namespace Demo\BlogBundle\Event;
use Symfony\Component\EventDispatcher\Event;
class NewPostEvent extends Event
{
    public $post;
    public function __construct($post)
    {
        $this->post = $post;
    }
}
```

Listeners are registered in the Event Dispatcher (see above). To trigger an event, you tell the dispatcher which will call all registered listeners.