[illegible]

[illegible] URL [illegible] SEO [illegible] URL[illegible] /read/intro-to-symfony[illegible] index.php?article_id=57 [illegible]

[illegible]

[illegible] YAML[illegible] XML[illegible] PHP [illegible] Symfony [illegible] attributes[illegible] route [illegible] controller [illegible]

[illegible]

PHP [illegible] PHP 8 [illegible]

[illegible] Symfony Flex [illegible]

```yaml
# config/routes/attributes.yaml
controllers:
    resource:
        path: ../../src/Controller/
        namespace: App\Controller
    type: attribute

kernel:
    resource: App\Kernel
    type: attribute
```

[illegible] Symfony [illegible] App\Controller [illegible] PSR-4 [illegible] src/Controller/ [illegible] Symfony [illegible]

[illegible] /blog URL [illegible] controller [illegible]

```
// src/Controller/BlogController.php
namespace App\Controller;

use Symfony\Bundle\FrameworkBundle\Controller\AbstractController;
use Symfony\Component\HttpFoundation\Response;
use Symfony\Component\Routing\Attribute\Route;

class BlogController extends AbstractController
{
    #[Route('/blog', name: 'blog_list')]
    public function list(): Response
    {
        // ...
    }
}
```

□□□□□□□□ blog_list □□□□□□□□□□ /blog URL □□□□□□□□□□□□□□ BlogController □□ list□□ □□□

□□□□ □ blog_list□ □□□□□□□□□□□ URL □□□□□□□□□□□□□□□□□□□□□□□□□□□□

□ YAML□ XML □ PHP □□□□□□□

□□□□□□ YAML□ XML □ PHP □□□ □□□□□□□□□□□□□□□□□□□

□□□□□□□□ YAML/XML/PHP □□□□□□ blog_list □□□□□□□ /blog URL □ BlogController □ list□□ □□□□□

```yaml
# config/routes.yaml
blog_list:
    path: /blog
    # the controller value has the format 'controller_class::method_name'
    controller: App\Controller\BlogController::list

    # if the action is implemented as the __invoke() method of the
    # controller class, you can skip the '::method_name' part:
    # controller: App\Controller\BlogController
```

□□ HTTP □□

□□□□□□□□□□□□ HTTP □□□ GET□ POST□ PUT □□□□ methods □□□□□□□□□□□□□□□□

```
// src/Controller/BlogApiController.php
namespace App\Controller;

use Symfony\Bundle\FrameworkBundle\Controller\AbstractController;
use Symfony\Component\HttpFoundation\Response;
use Symfony\Component\Routing\Attribute\Route;

class BlogApiController extends AbstractController
{
    #[Route('/api/posts/{id}', methods: ['GET', 'HEAD'])]
    public function show(int $id): Response
    {
        // ... return a JSON response with the post
    }

    #[Route('/api/posts/{id}', methods: ['PUT'])]
    public function edit(int $id): Response
    {
        // ... edit a post
    }
}
```

□□□□

□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□ condition □□□

```
// src/Controller/DefaultController.php
namespace App\Controller;

use Symfony\Bundle\FrameworkBundle\Controller\AbstractController;
use Symfony\Component\HttpFoundation\Response;
use Symfony\Component\Routing\Attribute\Route;

class DefaultController extends AbstractController
{
```

```
    #[Route(
        '/contact',
        name: 'contact',
        condition: "context.getMethod() in ['GET', 'HEAD'] and request.headers.get('User-Agent') matches
'/firefox/i'",
        // expressions can also include config parameters:
        // condition: "request.headers.get('User-Agent') matches '%app.allowed_browsers%'"
    )]
    public function contact(): Response
    {
        // ...
    }

    #[Route(
        '/posts/{id}',
        name: 'post_show',
        // expressions can retrieve route parameter values using the "params" variable
        condition: "params['id'] < 1000"
    )]
    public function showPost(int $id): Response
    {
        // ... return a JSON response with the post
    }
}
```

condition □□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□ Symfony □□□□□□□□□□□□□□

- context RequestContext □□□□□□□□□□□□□□□□□□□□□□□□□□□□
- request □□□□□□□ Symfony Request □□□
- params □□□□□□□□□□□□□□

□□□□□□□□□□

- env(string $name) □□ Environment Variable Processors □□□□□□
- service(string $alias) □□□□□□□□□ □□□□ #[AsRoutingConditionService] □□□ routing.condition_service □□□□□□□□□□□□□□□□□□ ``` use Symfony\Bundle\FrameworkBundle\Routing\Attribute\AsRoutingConditionService; use Symfony\Component\HttpFoundation\Request; #[AsRoutingConditionService(alias: 'route_checker')] class RouteChecker { public function check(Request $request): bool { // ... } }

□□□□□ service□□ □□□ conditions □□□□□□□ ```
// Controller (using an alias):
#[Route(condition: "service('route_checker').check(request)")]
// Or without alias:
#[Route(condition: "service('App\\\Service\\\RouteChecker').check(request)")]

□□□□□□□□□□□□□ PHP□□□□□□ condition □□□□□□□□□ PHP □□□□□□□□□□

□□□□

□□□□□□□□□□□□□□□□□□□□□□ Symfony □□□□□□□□□□□□□□□□□□□□□□ debug □ router □□□□ Symfony □□□□□□□□□□□□□□□□□□□□

```
php bin/console debug:router

---------------  -------  -------  -----  ----------------------------------------
Name             Method   Scheme   Host   Path
---------------  -------  -------  -----  ----------------------------------------
homepage         ANY      ANY      ANY    /
contact          GET      ANY      ANY    /contact
contact_process  POST     ANY      ANY    /contact
article_show     ANY      ANY      ANY    /articles/{_locale}/{year}/{title}.{_format}
blog             ANY      ANY      ANY    /blog/{page}
blog_show        ANY      ANY      ANY    /blog/{slug}
---------------  -------  -------  -----  ----------------------------------------
```

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```
php bin/console debug:router app_lucky_number

+-------------+-------------------------------------------------------------+
| Property    | Value                                                       |
+-------------+-------------------------------------------------------------+
| Route Name  | app_lucky_number                                            |
| Path        | /lucky/number/{max}                                         |
| ...         | ...                                                         |
```

```
| Options     | compiler_class: Symfony\Component\Routing\RouteCompiler |
|             | utf8: true                                              |
+-------------+---------------------------------------------------------+
```

□□□□□□□ router□ match□□□□□□□□□□□□□□ URL□□□□□ URL □□□□□□□□□□□□□□□□□□□□□

```
php bin/console router:match /lucky/number/8


  [OK] Route "app_lucky_number" matches
```

□□□□

□□□□□□□□ URL □□□□□□□□□□□□ /blog □□ URL □□□□□□□ slug□□□ /blog/my-first-post □ /blog/all-about-symfony□□

□ Symfony □□□□□□□□□ { } □□□□□□□□□□□□□□□□□□□□□□□ /blog/{slug}□

```
// src/Controller/BlogController.php
namespace App\Controller;

use Symfony\Bundle\FrameworkBundle\Controller\AbstractController;
use Symfony\Component\HttpFoundation\Response;
use Symfony\Component\Routing\Attribute\Route;

class BlogController extends AbstractController
{
    // ...

    #[Route('/blog/{slug}', name: 'blog_show')]
    public function show(string $slug): Response
    {
        // $slug will equal the dynamic part of the URL
        // e.g. at /blog/yay-routing, then $slug='yay-routing'

        // ...
```

```
    }
}
```

[illegible] {slug}[illegible] PHP [illegible] /blog/my-first-post URL[illegible] Symfony [illegible] BlogController [illegible] show[illegible] [illegible] $slug = 'my-first-post' [illegible] show[illegible] [illegible]

[illegible] /blog/posts-about-{category}/page/{pageNumber} [illegible]

[illegible]

[illegible] blog_show [illegible] [illegible] URL[illegible] /blog/{slug}[illegible] [illegible] blog_list [illegible] [illegible] URL[illegible] /blog/{page}[illegible]

[illegible] /blog/my-first-post[illegible] Symfony [illegible] requirements [illegible] {page} [illegible]

```php
// src/Controller/BlogController.php
namespace App\Controller;

use Symfony\Bundle\FrameworkBundle\Controller\AbstractController;
use Symfony\Component\HttpFoundation\Response;
use Symfony\Component\Routing\Attribute\Route;

class BlogController extends AbstractController
{
    #[Route('/blog/{page}', name: 'blog_list', requirements: ['page' => '\d+'])]
    public function list(int $page): Response
    {
        // ...
    }

    #[Route('/blog/{slug}', name: 'blog_show')]
    public function show($slug): Response
    {
        // ...
    }
}
```

requirements [illegible] PHP [illegible] \d+ [illegible]

```
URL[illegible]Route[illegible] Parameters [illegible]
/blog/2[illegible]blog_list[illegible]$page = 2
/blog/my-first-post[illegible]blog_show[illegible]$slug = my-first-post $slug [illegible]
```

[illegible] {parameter_name} .
[illegible]

```
// src/Controller/BlogController.php
namespace App\Controller;

use Symfony\Bundle\FrameworkBundle\Controller\AbstractController;
use Symfony\Component\HttpFoundation\Response;
use Symfony\Component\Routing\Attribute\Route;

class BlogController extends AbstractController
{
    #[Route('/blog/{page<\d+>}', name: 'blog_list')]
    public function list(int $page): Response
    {
        // ...
    }
}
```

[illegible]

[illegible] blog_list [illegible] URL [illegible] /blog/{page}[illegible] /blog/1[illegible]
/blog[illegible]

[illegible] {page} [illegible] /blog [illegible] blog_list[illegible]
controller [illegible] defaults [illegible]

```
// src/Controller/BlogController.php
namespace App\Controller;

use Symfony\Bundle\FrameworkBundle\Controller\AbstractController;
use Symfony\Component\HttpFoundation\Response;
```

```
use Symfony\Component\Routing\Attribute\Route;

class BlogController extends AbstractController
{
    #[Route('/blog/{page}', name: 'blog_list', requirements: ['page' => '\d+'])]
    public function list(int $page = 1): Response
    {
        // ...
    }
}
```

[illegible] /blog [illegible] blog_list[illegible] $page [illegible] 1[illegible]

[illegible] URL [illegible] /blog/1 [illegible] /blog [illegible] [illegible] /blog/{[illegible] page}

[illegible] requirements [illegible] {parameter_name?default_value} [illegible]
[illegible]

```
// src/Controller/BlogController.php
namespace App\Controller;

use Symfony\Bundle\FrameworkBundle\Controller\AbstractController;
use Symfony\Component\HttpFoundation\Response;
use Symfony\Component\Routing\Attribute\Route;

class BlogController extends AbstractController
{
    #[Route('/blog/{page<\d+>?1}', name: 'blog_list')]
    public function list(int $page): Response
    {
        // ...
    }
}
```

[illegible]

Symfony
[illegible]
YAML [illegible] XML [illegible] PHP

[illegible] priority [illegible]

```
// src/Controller/BlogController.php
namespace App\Controller;

use Symfony\Bundle\FrameworkBundle\Controller\AbstractController;
use Symfony\Component\Routing\Attribute\Route;

class BlogController extends AbstractController
{
    /**
     * This route has a greedy pattern and is defined first.
     */
    #[Route('/blog/{slug}', name: 'blog_show')]
    public function show(string $slug): Response
    {
        // ...
    }

    /**
     * This route could not be matched without defining a higher priority than 0.
     */
    #[Route('/blog/list', name: 'blog_list', priority: 2)]
    public function list(): Response
    {
        // ...
    }
}
```

priority [illegible] 0[illegible]

[illegible]

[illegible] ID [illegible] “param converter”[illegible]

[illegible] controller [illegible] BlogPost $post[illegible] $slug

```
// src/Controller/BlogController.php
namespace App\Controller;
```

```
use App\Entity\BlogPost;
use Symfony\Bundle\FrameworkBundle\Controller\AbstractController;
use Symfony\Component\HttpFoundation\Response;
use Symfony\Component\Routing\Attribute\Route;

class BlogController extends AbstractController
{
    // ...

    #[Route('/blog/{slug}', name: 'blog_show')]
    public function show(BlogPost $post): Response
    {
        // $post is the object whose slug matches the routing parameter

        // ...
    }
}
```

□□□□□□□□□□□□□□□□□□□□□□□□□□□□ BlogPost□□□ “param converter” □□□□□□□□□□□□□□□□□□□□□□□□□□□□ slug□□□□□□□□□□□□□□□□ Symfony □□□□□ 404 □□□

□□ Doctrine param conversion □□□□□ #[MapEntity] □□□□□□□□□□□□□□□□ route □□□□□□□□□□□□□

□□□□□□□

□□□□□ PHP □□□□□□□□□□□□□□□ Symfony □□□□□□□□□□□□□□□□□□

```
// src/Controller/OrderController.php
namespace App\Controller;

use App\Enum\OrderStatusEnum;
use Symfony\Bundle\FrameworkBundle\Controller\AbstractController;
use Symfony\Component\HttpFoundation\Response;
use Symfony\Component\Routing\Attribute\Route;

class OrderController extends AbstractController
{
```

```
    #[Route('/orders/list/{status}', name: 'list_orders_by_status')]
    public function list(OrderStatusEnum $status = OrderStatusEnum::Paid): Response
    {
        // ...
    }
}
```

[illegible]

[illegible] Symfony [illegible]

- _controller [illegible]
- _format [illegible] Request [illegible] “[illegible]”[illegible] Content-Type [illegible] json [illegible] application/json [illegible] Content-Type[illegible]
- _fragment [illegible] URL [illegible] # [illegible]
- _locale [illegible]

[illegible] _fragment [illegible] Symfony [illegible]

```
// src/Controller/ArticleController.php
namespace App\Controller;

// ...
class ArticleController extends AbstractController
{
    #[Route(
        path: '/articles/{_locale}/search.{_format}',
        locale: 'en',
        format: 'html',
        requirements: [
            '_locale' => 'en|fr',
            '_format' => 'html|xml',
        ],
    )]
    public function search(): Response
    {
    }
}
```

[illegible]

[illegible] defaults [illegible]

```
// src/Controller/BlogController.php
namespace App\Controller;

use Symfony\Bundle\FrameworkBundle\Controller\AbstractController;
use Symfony\Component\HttpFoundation\Response;
use Symfony\Component\Routing\Attribute\Route;

class BlogController extends AbstractController
{
    #[Route('/blog/{page}', name: 'blog_index', defaults: ['page' => 1, 'title' => 'Hello world!'])]
    public function index(int $page, string $title): Response
    {
        // ...
    }
}
```

[illegible]

[illegible] / [illegible] URL [illegible] /share/{token} [illegible] token [illegible] / [illegible]

[illegible] parameter requirements [illegible]

```
// src/Controller/DefaultController.php
namespace App\Controller;

use Symfony\Bundle\FrameworkBundle\Controller\AbstractController;
use Symfony\Component\HttpFoundation\Response;
use Symfony\Component\Routing\Attribute\Route;

class DefaultController extends AbstractController
{
    #[Route('/share/{token}', name: 'share', requirements: ['token' => '.+'])]
    public function share($token): Response
```

```
    {
        // ...
    }
}
```

□□□□

Route alias □□□□□□□□□□□□□□□

```
# config/routes.yaml
new_route_name:
    alias: original_route_name
```

□□□□□□ original_route_name □ new_route_name
□□□□□□□□□□□□□□□□□□□□□□□□□□□□

□□□□□□

□□

```
new_route_name:
    alias: original_route_name

    # this outputs the following generic deprecation message:
    # Since acme/package 1.2: The "new_route_name" route alias is deprecated. You should stop using it, as it
will be removed in the future.
    deprecated:
        package: 'acme/package'
        version: '1.2'

    # you can also define a custom deprecation message (%alias_id% placeholder is available)
    deprecated:
        package: 'acme/package'
        version: '1.2'
        message: 'The "%alias_id%" route alias is deprecated. Do not use it anymore.'
```

□□□□□□□□□□ new_route_name □□□□□□□□□□□□□□□□□□□□□□□□□□

[illegible] %alias_id% [illegible]
%alias_id% [illegible]

[illegible]

[illegible] /blog [illegible] Symfony
[illegible]

[illegible] controller [illegible] #[Route]
[illegible]

```
// src/Controller/BlogController.php
namespace App\Controller;

use Symfony\Bundle\FrameworkBundle\Controller\AbstractController;
use Symfony\Component\HttpFoundation\Response;
use Symfony\Component\Routing\Attribute\Route;

#[Route('/blog', requirements: ['_locale' => 'en|es|fr'], name: 'blog_')]
class BlogController extends AbstractController
{
    #[Route('/{_locale}', name: 'index')]
    public function index(): Response
    {
        // ...
    }

    #[Route('/{_locale}/posts/{slug}', name: 'show')]
    public function show(string $slug): Response
    {
        // ...
    }
}
```

[illegible] index[illegible] [illegible] blog_index[illegible] URL [illegible] /blog/{_locale}[illegible] show[illegible]
[illegible] blog_show[illegible] URL [illegible] /blog/{_locale}/posts/{slug}[illegible] _locale
[illegible] class [illegible]

[illegible]

Symfony Request name parameters "request attributes" Request

```
// src/Controller/BlogController.php
namespace App\Controller;

use Symfony\Bundle\FrameworkBundle\Controller\AbstractController;
use Symfony\Component\HttpFoundation\Request;
use Symfony\Component\HttpFoundation\Response;
use Symfony\Component\Routing\Attribute\Route;

class BlogController extends AbstractController
{
    #[Route('/blog', name: 'blog_list')]
    public function list(Request $request): Response
    {
        $routeName = $request->attributes->get('_route');
        $routeParameters = $request->attributes->get('_route_params');

        // use this to get all the available attributes (not only routing ones):
        $allAttributes = $request->attributes->all();

        // ...
    }
}
```

services RequestStack Twig app app.current_route app.current_route_parameters

[illegible]

Symfony

[illegible]

□□□ Symfony □□ □□□ □□□□ route □□□□□□□□

□□□□□□□□□ URL □□□

□□ RedirectController □□□□□□□□□ URL□

```
# config/routes.yaml
doc_shortcut:
    path: /doc
    controller: Symfony\Bundle\FrameworkBundle\Controller\RedirectController
    defaults:
        route: 'doc_page'
        # optionally you can define some arguments passed to the route
        page: 'index'
        version: 'current'
        # redirections are temporary by default (code 302) but you can make them permanent (code 301)
        permanent: true
        # add this to keep the original query string parameters when redirecting
        keepQueryParams: true
        # add this to keep the HTTP method when redirecting. The redirect status changes
        # * for temporary redirects, it uses the 307 status code instead of 302
        # * for permanent redirects, it uses the 308 status code instead of 301
        keepRequestMethod: true
        # add this to remove all original route attributes when redirecting
        ignoreAttributes: true
        # or specify which attributes to ignore:
        # ignoreAttributes: ['offset', 'limit']

legacy_doc:
    path: /legacy/doc
    controller: Symfony\Bundle\FrameworkBundle\Controller\RedirectController
    defaults:
        # this value can be an absolute path or an absolute URL
        path: 'https://legacy.example.com/doc'
        permanent: true
```

□□□□□□□□□ URL

□□□□□ URL □□ UNIX □□□□□□□□□□□□□□□ https://example.com/foo/ □□□□□□□□□□ □ https://example.com/foo□□□□□□ URL

[illegible] URL [illegible] URL [illegible]

Symfony [illegible] URL [illegible] GET [illegible] HEAD [illegible]

[illegible]

[illegible] host [illegible] HTTP [illegible] / [illegible]

```
// src/Controller/MainController.php
namespace App\Controller;

use Symfony\Bundle\FrameworkBundle\Controller\AbstractController;
use Symfony\Component\HttpFoundation\Response;
use Symfony\Component\Routing\Attribute\Route;

class MainController extends AbstractController
{
    #[Route('/', name: 'mobile_homepage', host: 'm.example.com')]
    public function mobileHomepage(): Response
    {
        // ...
    }

    #[Route('/', name: 'homepage')]
    public function homepage(): Response
    {
        // ...
    }
}
```

host [illegible]

```
// src/Controller/MainController.php
namespace App\Controller;

use Symfony\Bundle\FrameworkBundle\Controller\AbstractController;
```

```
use Symfony\Component\HttpFoundation\Response;
use Symfony\Component\Routing\Attribute\Route;

class MainController extends AbstractController
{
    #[Route(
        '/',
        name: 'mobile_homepage',
        host: '{subdomain}.example.com',
        defaults: ['subdomain' => 'm'],
        requirements: ['subdomain' => 'm|mobile'],
    )]
    public function mobileHomepage(): Response
    {
        // ...
    }

    #[Route('/', name: 'homepage')]
    public function homepage(): Response
    {
        // ...
    }
}
```

[illegible] subdomain [illegible] URL [illegible] subdomain [illegible]

[illegible] （i18n）

[illegible] URL [illegible]

```
// src/Controller/CompanyController.php
namespace App\Controller;

use Symfony\Bundle\FrameworkBundle\Controller\AbstractController;
use Symfony\Component\HttpFoundation\Response;
use Symfony\Component\Routing\Attribute\Route;
```

```
class CompanyController extends AbstractController
{
    #[Route(path: [
        'en' => '/about-us',
        'nl' => '/over-ons'
    ], name: 'about_us')]
    public function about(): Response
    {
        // ...
    }
}
```

[illegible] Symfony [illegible] locale[illegible]

[illegible] locale [illegible] locale [illegible] locale [illegible]

```
# config/routes/attributes.yaml
controllers:
    resource: '../../src/Controller/'
    type: attribute
    prefix:
        en: '' # don't prefix URLs for English, the default locale
        nl: '/nl'
```

[illegible] locale [illegible]

```
# config/routes/attributes.yaml
controllers:
    resource: '../../src/Controller/'
    type: attribute
    host:
        en: 'www.example.com'
        nl: 'www.example.nl'
```

[illegible]

[illegible] HTTP [illegible]
Symfony [illegible]

[illegible] HTTP [illegible]

[illegible]

```
// src/Controller/MainController.php
namespace App\Controller;

use Symfony\Bundle\FrameworkBundle\Controller\AbstractController;
use Symfony\Component\Routing\Attribute\Route;

class MainController extends AbstractController
{
    #[Route('/', name: 'homepage', stateless: true)]
    public function homepage(): Response
    {
        // ...
    }
}
```

[illegible] kernel.debug [illegible]

- enabled[illegible] UnexpectedSessionUsageException [illegible]
- disabled[illegible]

[illegible]

[illegible] URL

[illegible]

- [illegible] URL [illegible] ;
- [illegible] URL[illegible]

[illegible] URL[illegible] HTML [illegible] `<a href="…">` [illegible] URL [illegible]

[illegible] URL[illegible] blog_show[illegible] slug = my-blog-post [illegible]

[illegible] name [illegible] Symfony [illegible]

□□□□□□□□□□□□□ __invoke□□ □□□□□□□□□□□□□□□□□□□□ Symfony □□□□
FQCN □□□□□□□ Symfony □□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□

```
// src/Controller/MainController.php
namespace App\Controller;

use Symfony\Bundle\FrameworkBundle\Controller\AbstractController;
use Symfony\Component\Routing\Attribute\Route;

final class MainController extends AbstractController
{
    #[Route('/', name: 'homepage')]
    public function homepage(): Response
    {
        // ...
    }
}
```

Symfony □□□□□□□ App\Controller\MainController::homepage .

□ Controller □□□ URL

□□□□□□□□□ AbstractController □□□□□□□□□ generateUrl□□ □□□□□

```
// src/Controller/BlogController.php
namespace App\Controller;

use Symfony\Bundle\FrameworkBundle\Controller\AbstractController;
use Symfony\Component\HttpFoundation\Response;
use Symfony\Component\Routing\Attribute\Route;
use Symfony\Component\Routing\Generator\UrlGeneratorInterface;

class BlogController extends AbstractController
{
    #[Route('/blog', name: 'blog_list')]
    public function list(): Response
    {
        // generate a URL with no route arguments
        $signUpPage = $this->generateUrl('sign_up');

        // generate a URL with route arguments
```

```
        $userProfilePage = $this->generateUrl('user_profile', [
            'username' => $user->getUserIdentifier(),
        ]);

        // generated URLs are "absolute paths" by default. Pass a third optional
        // argument to generate different URLs (e.g. an "absolute URL")
        $signUpPage = $this->generateUrl('sign_up', [], UrlGeneratorInterface::ABSOLUTE_URL);

        // when a route is localized, Symfony uses by default the current request locale
        // pass a different '_locale' value if you want to set the locale explicitly
        $signUpPageInDutch = $this->generateUrl('sign_up', ['_locale' => 'nl']);

        // ...
    }
}
```

□□□□□□□□□□ AbstractController
□□

□ Services □□□ URL

□□□□ Symfony □□□□□□□□□□□□□□□□□□□ generate□□
□□ UrlGeneratorInterface
□□□□□□□□□□

```
// src/Service/SomeService.php
namespace App\Service;

use Symfony\Component\Routing\Generator\UrlGeneratorInterface;

class SomeService
{
    public function __construct(
        private UrlGeneratorInterface $router,
    ) {
    }

    public function someMethod(): void
    {
        // ...
```

```
        // generate a URL with no route arguments
        $signUpPage = $this->router->generate('sign_up');

        // generate a URL with route arguments
        $userProfilePage = $this->router->generate('user_profile', [
            'username' => $user->getUserIdentifier(),
        ]);

        // generated URLs are "absolute paths" by default. Pass a third optional
        // argument to generate different URLs (e.g. an "absolute URL")
        $signUpPage = $this->router->generate('sign_up', [], UrlGeneratorInterface::ABSOLUTE_URL);

        // when a route is localized, Symfony uses by default the current request locale
        // pass a different '_locale' value if you want to set the locale explicitly
        $signUpPageInDutch = $this->router->generate('sign_up', ['_locale' => 'nl']);
    }
}
```

□□□□□□ URL

□□□ Symfony □□□□□□□□□□□□□□□□□□□□□□□□

□ JavaScript □□□ URL

□□□□ JavaScript □□□□□ Twig □□□□□□□□□ path□□ □ url□□ Twig □□□□ URL □□□□□□ JavaScript □□□□□□ escape□□ □□□□□□□□□ JavaScript □□□□□

```
<script>
    const route = "{{ path('blog_show', {slug: 'my-blog-post'})|escape('js') }}";
</script>
```

□□□□□□□□□ URL □□□□□ JavaScript □□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□ FOSJsRoutingBundle□

□□□□□□ URL

□□□□□□ URL □□□□□□□□□□□□□ URL □□□□□□□□□□□□□□ HTTP □□□□□□□□□□□□□□□□□□ URL□□□□□ http://localhost/ □□□□□□□□□□□□□□□□□

□□□□□□□ default_uri □□□□□□□□□□ URL □□□□ “request context”□

```yaml
# config/packages/routing.yaml
framework:
    router:
        # ...
        default_uri: 'https://example.org/my/path/'
```

□□□□□□□□□ URL □□□□□□□□□□□□

```php
// src/Command/SomeCommand.php
namespace App\Command;

use Symfony\Component\Console\Command\Command;
use Symfony\Component\Console\Input\InputInterface;
use Symfony\Component\Console\Output\OutputInterface;
use Symfony\Component\Routing\Generator\UrlGeneratorInterface;
// ...

class SomeCommand extends Command
{
    public function __construct(private UrlGeneratorInterface $urlGenerator)
    {
        parent::__construct();
    }

    protected function execute(InputInterface $input, OutputInterface $output): int
    {
        // generate a URL with no route arguments
        $signUpPage = $this->urlGenerator->generate('sign_up');

        // generate a URL with route arguments
        $userProfilePage = $this->urlGenerator->generate('user_profile', [
            'username' => $user->getUserIdentifier(),
        ]);

        // by default, generated URLs are "absolute paths". Pass a third optional
        // argument to generate different URIs (e.g. an "absolute URL")
        $signUpPage = $this->urlGenerator->generate('sign_up', [], UrlGeneratorInterface::ABSOLUTE_URL);

        // when a route is localized, Symfony uses by default the current request locale
```

```
        // pass a different '_locale' value if you want to set the locale explicitly
        $signUpPageInDutch = $this->urlGenerator->generate('sign_up', ['_locale' => 'nl']);

        // ...
    }
}
```

[illegible]

[illegible] URL [illegible] getRouteCollection [illegible]
[illegible]

[illegible] URL [illegible] RouteNotFoundException[illegible]

```
use Symfony\Component\Routing\Exception\RouteNotFoundException;

// ...

try {
    $url = $this->router->generate($routeName, $routeParameters);
} catch (RouteNotFoundException $e) {
    // the route is not defined...
}
```

[illegible] URL [illegible] HTTPS

[illegible] URL [illegible] HTTP [illegible] HTTP [illegible] URL [illegible] http[illegible] getContext[illegible]
[illegible]

```
# config/services.yaml
parameters:
    router.request_context.scheme: 'https'
    asset.request_context.secure: true
```

[illegible] schemes [illegible]

```
// src/Controller/SecurityController.php
namespace App\Controller;

use Symfony\Bundle\FrameworkBundle\Controller\AbstractController;
```

```
use Symfony\Component\HttpFoundation\Response;
use Symfony\Component\Routing\Attribute\Route;

class SecurityController extends AbstractController
{
    #[Route('/login', name: 'login', schemes: ['https'])]
    public function login(): Response
    {
        // ...
    }
}
```

□□□□□□□□ URL □□□□□ HTTPS□□□□□□□□□ path□□ Twig □□□□ URL □□□□□□□□□ HTTP □□□□□□□□□□□□□□□□□□□□□□□□ URL □□□□□ URL□

```
{# if the current scheme is HTTPS, generates a relative URL: /login #}
{{ path('login') }}

{# if the current scheme is HTTP, generates an absolute URL to change
  the scheme: https://example.com/login #}
{{ path('login') }}
```

□□□□□□□□□□ scheme □□□□□□□□□□ HTTP □□ /login URL□□□□□□□□□□□□□ URL□□□□ HTTPS □□□

□□□□□□□□□□ HTTPS □□ HTTPS□

```
# config/routes/attributes.yaml
controllers:
    resource: '../../src/Controller/'
    type: attribute
    schemes: [https]
```

□ URI □□□□

□□ URI □□□□□□ URI □□□□□□□ URI□□□□□□□□□□□□□□□□□□ URI □□□□□□□□ URI □□□□□□□□□□□□□□□□□ URI □□□□□

Symfony □□□□□□□ UriSigner □□□ URI □□□□□□□□□□□□□□□□□□□□□□□□□□□□□

```
// src/Service/SomeService.php
namespace App\Service;

use Symfony\Component\HttpFoundation\UriSigner;

class SomeService
{
    public function __construct(
        private UriSigner $uriSigner,
    ) {
    }

    public function someMethod(): void
    {
        // ...

        // generate a URL yourself or get it somehow...
        $url = 'https://example.com/foo/bar?sort=desc';

        // sign the URL (it adds a query parameter called '_hash')
        $signedUrl = $this->uriSigner->sign($url);
        // $url = 'https://example.com/foo/bar?sort=desc&_hash=e4a21b9'

        // check the URL signature
        $uriSignatureIsValid = $this->uriSigner->check($signedUrl);
        // $uriSignatureIsValid = true

        // if you have access to the current Request object, you can use this
        // other method to pass the entire Request object instead of the URI:
        $uriSignatureIsValid = $this->uriSigner->checkRequest($request);
    }
}
```

[illegible] URI
[illegible] URI
[illegible] sign[illegible] [illegible] $expiration [illegible] /[illegible]

```
// src/Service/SomeService.php
namespace App\Service;
```

```
use Symfony\Component\HttpFoundation\UriSigner;

class SomeService
{
    public function __construct(
        private UriSigner $uriSigner,
    ) {
    }

    public function someMethod(): void
    {
        // ...

        // generate a URL yourself or get it somehow...
        $url = 'https://example.com/foo/bar?sort=desc';

        // sign the URL with an explicit expiration date
        $signedUrl = $this->uriSigner->sign($url, new \DateTimeImmutable('2050-01-01'));
        // $signedUrl = 'https://example.com/foo/bar?sort=desc&_expiration=2524608000&_hash=e4a21b9'

        // if you pass a \DateInterval, it will be added from now to get the expiration date
        $signedUrl = $this->uriSigner->sign($url, new \DateInterval('PT10S'));  // valid for 10 seconds from now
        // $signedUrl = 'https://example.com/foo/bar?sort=desc&_expiration=1712414278&_hash=e4a21b9'

        // you can also use a timestamp in seconds
        $signedUrl = $this->uriSigner->sign($url, 4070908800); // timestamp for the date 2099-01-01
        // $signedUrl = 'https://example.com/foo/bar?sort=desc&_expiration=4070908800&_hash=e4a21b9'
    }
}
```

□□□□

□□□□□□□□□□□□□□□□□□□□□□□□

```
Controller "App\\Controller\\BlogController::show()" requires that you
provide a value for the "$slug" argument.
```

□□□□□□□□□□□□□□□□ $slug□□□□□□□□□□□□

```
public function show(string $slug): Response
{
    // ...
}
```

□□□□□□□□□□ {slug} □□□□□□□□ /blog/show□□□ {slug} □□□□□□□□ /blog/show/{slug} □□□□□□□□□□□□ $slug = null□□

```
Some mandatory parameters are missing ("slug") to generate a URL for route "blog_show".
```

□□□□□□□□□□□□□ blog_show □□□ URL□□□□□□□ slug □□□□□□□□□□□□□□□□□□□□ {slug} □□□□□□□□□□□□□□□□□□□□ slug □□

```
$this->generateUrl('blog_show', ['slug' => 'slug-value']);
```

or, in Twig: □□□□ Twig □□

```
{{ path('blog_show', {slug: 'slug-value'}) }}
```

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