

Symfony Cheat Sheet

Symfony CLI: Installation

```
curl -sS https://get.symfony.com/cli/installer | bash
```

Symfony CLI: Basic Commands

Command	Description
symfony check:requirements	Check system requirements for running Symfony
symfony version	Display the Symfony CLI version
symfony help	Display all available commands
symfony help <command>	Display help for a specific command

Creating a New Symfony Project

Command	Description
symfony new <directory>	Create a new Symfony project in <directory>
symfony new --webapp <directory>	Create a new web application
symfony new --api <directory>	Create a new API application
composer create-project symfony/skeleton <directory>	Create a new Symfony project using Composer

Flex Commands

Command	Description
composer symfony:dump-env <env>	Compile .env files to .env.local.php
composer symfony:recipes	List available recipes
symfony:recipes:install	(Re)install recipes for packages
symfony:recipes:update	Update installed recipes

Routing Attributes

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

Attribute	Description
<code>#[Route('/path')]</code>	Define a route for a controller method
<code>#[Route('/path', name: 'name')]</code>	Define a named route for a method
<code>#[Route('/path', methods: ['GET'])]</code>	Define allowed HTTP methods
<code>#[Route('/blog/{slug}')]</code>	Define a route with a parameter
<code>#[Route('/page/{page}', requirements: ['page' => '\d+'])]</code>	Define a route with a parameter constraint
<code>#[Route(path: ['en' => '/about-us', 'nl' => '/over-ons'], name: 'about')]</code>	Define localized routes

AbstractController Methods

Method	Description
<code>\$this->render('template.html')</code>	Returns a Response with the rendered template
<code>\$this->redirectToRoute('homepage')</code>	Returns a RedirectResponse to a named route
<code>\$this->redirectToRoute('name', ['param' => 'value'])</code>	Returns a redirect to a route with parameters
<code>\$this->redirectToRoute('name', [], 301)</code>	Returns a RedirectResponse with status code
<code>\$this->redirect('http://example.com')</code>	Returns a RedirectResponse to an external URL
<code>\$this->createNotFoundException(\$msg)</code>	Returns a NotFoundHttpException
<code>\$this->createForm(FormType::class, \$data)</code>	Creates a new Form instance based on the type

Form Methods

Method	Description
<code>\$form->handleRequest(\$request)</code>	Handle a form submission
<code>\$form->isSubmitted()</code>	Check if the form was submitted
<code>\$form->isValid()</code>	Check if the form is valid

Form Fields: Text Fields

Type	Description
TextType	A basic text input field
TextareaType	A multi-line textarea field
EmailType	An email field (<input type="email">)
PasswordType	A password field
SearchType	A search field
UrlType	A URL field
TelType	A tel (phone number) input field
UuidType	A UUID field

Form Fields: Numeric Fields

Type	Description
IntegerType	A number field for integers
MoneyType	A money field, with a specifiable currency
NumberType	A number field
PercentType	A number field for percentages
RangeType	A range input field (slider)

Form Fields: Choice Fields

Type	Description
ChoiceType	Field for selecting one or more options
EnumType	Choose from PHP enum cases
EntityType	Choose from a Doctrine entity
CountryType	Choose a country
LanguageType	Choose a language
LocaleType	Choose a locale
TimezoneType	Choose a timezone
CurrencyType	Choose a currency

The expanded and multiple options decide whether a dropdown, radio buttons or checkboxes are rendered.

Form Fields: Symfony UX Fields

Type	Description
CropperType	A Cropper.js image cropper field
DropzoneType	A Dropzone file upload field

Form Fields: Date and Time Fields

Type	Description
DateType	A date field
DateIntervalType	A date interval field
DateTimeType	A date and time field
TimeType	A time field
BirthdayType	A date field for birthdays
WeekType	Select a year and week

Form Fields: Other Fields

Type	Description
CheckboxType	A single checkbox field
FileType	A file upload field
RadioType	A radio button field
HiddenType	A hidden field

Form Fields: Field Groups

Type	Description
CollectionType	A group of fields that can be added or removed
RepeatedType	A field that is repeated (e.g. password confirmation)

See <https://symfony.com/doc/current/reference/forms/types.html> for a full list of form types.

Validation: Basic Constraints

```
use Symfony\Component\Validator\Constraints as Assert;
```

Attribute	Description
#[Assert\NotBlank]	Value is not an empty string/array, false or null
#[Assert\Blank]	Value is an empty string or null
#[Assert\NotNull]	Value is not strictly equal to null
#[Assert\IsNull]	Value is exactly equal to null
#[Assert\Type('string')]	Value is of a specific type

Validation: Comparison Constraints

Attribute	Description
#[Assert\<Not>EqualTo('Foo')]	Value is (not) equal to another value
#[Assert\<Not>IdenticalTo('Foo')]	Value is (not) identical to another value
#[Assert\LessThan<OrEqual>(5)]	Value is less than (or equal to) another value
#[Assert\GreaterThanOrEqual(5)]	Value is greater than (or equal to) another value
#[Assert\Range(min: 2, max: 10)]	Number or DateTime object is within a range

Validation: String Constraints

Attribute	Description
#[Assert\Length(2, 10)]	String is between <min> and <max> characters long
#[Assert\Email]	String is a valid email address
#[Assert\Url]	String is a valid URL
#[Assert\Hostname]	String is a valid hostname
#[Assert\Ip]	String is a valid IP address
#[Assert\NoSuspiciousCharacters]	String does not contain spoofing characters
#[Assert\Uuid]	String is a valid UUID
#[Assert\CssColor]	String is a valid CSS color

Validation: Password Constraints

Attribute	Description
#[Assert\UserPassword]	String is the authenticated user's password
#[Assert\NotCompromisedPassword]	Password is not found in any data breaches
#[Assert\PasswordStrength]	Password has enough entropy

Validation: Number Constraints

Attribute	Description
#[Assert\Positive<OrZero>]	Value is positive (or zero)
#[Assert\Negative<OrZero>]	Value is negative (or zero)

Validation: Date and Time Constraints

Attribute	Description
#[Assert\Date]	Value is a valid date string in Y-m-d format
#[Assert\DateTime]	Value is a valid datetime in the specified format
#[Assert\Time]	Value is a valid time string in H:i:s format
#[Assert\Timezone]	Value is a valid timezone identifier

Validation: Choice Constraints

Attribute	Description
#[Assert\Choice(['A', 'B', 'C'])]	Value is one of the specified choices
#[Assert\Country]	Value is a valid ISO 3166-1 country code
#[Assert\Language]	Value is a valid two-letter language code
#[Assert\Locale]	Value is a valid locale identifier

Validation: File Constraints

Attribute	Description
#[Assert\File]	Value is a valid file path or File object
#[Assert\Image]	Same as File, but only accepts image MIME types

Validation: Financial and other Number Constraints

Attribute	Description
#[Assert\Bic]	Value is a valid Business Identifier Code (BIC)
#[Assert\CardScheme]	Value is a valid credit card number
#[Assert\Currency]	Value is a valid 3-letter ISO 4217 currency
#[Assert\Luhn]	Value passes the Luhn algorithm
#[Assert\Iban]	Value is a valid IBAN
#[Assert\Isbn]	Value is a valid ISBN

See <https://symfony.com/doc/current/reference/constraints.html> for a full list of validation constraints.

Symfony Twig Extensions

On top of the default Twig functions and filters, Symfony provides additional functions and filters. See https://symfony.com/doc/current/reference/twig_reference.html for a full reference.

Twig: Routing Functions

Function	Description
path('home')	Returns the relative URL for a route
path('blog_post', {id: 3})	Returns the relative URL for a route with parameters
url('home')	Returns the absolute URL for a route
url('blog_post', {id: 3})	Returns the absolute URL for a route with params
url('home', [], true)	Returns a scheme-relative URL for a route
absolute_url('/blog/3')	Returns the absolute URL for a path
relative_path('/blog/3')	Returns the relative URL for a path

Twig: Form Functions

Function	Description
form(form)	Renders the complete form
form(form, {'method': 'GET'})	Renders the form, overriding some options
form_start(form)	Renders the opening <form> tag
form_end(form)	Renders the closing </form> tag
form_label(field)	Renders the label for the given field
form_help(field)	Renders the help text for the given field
form_errors(field)	Renders any errors for the given field
form_widget(field)	Renders the HTML widget for the given field
form_row(field)	Renders the complete row for the given field, including the label, errors, help and widget
form_rest(form)	Renders all fields that have not been rendered yet

Twig: Form Tags

Tag	Description
{% form_theme form 'bootstrap_5_layout.html.twig' %}	Apply a form theme to a single form

Twig: Security Functions

Function	Description
is_granted('ROLE_USER')	Check if the current user has a role
is_granted('edit', post)	Check if the current user can edit a post
csrf_token('delete-item')	Generate a CSRF token for a specific intention
logout_path('main')	Generate a relative logout URL for the given firewall
logout_url('main')	Generate an absolute logout URL for the given firewall

Twig: Asset Functions

Function	Description
asset('style.css')	Returns the public path for an asset
asset_version()	Returns the asset version
importmap()	Outputs the importmap

Twig: Translation Filters

Filter	Description
'foo' trans	Translate a message
'foo' trans({'name': 'value'})	Translate a message with parameters
'foo' trans({'name': 'value'}, 'app')	Translate a message from a specific domain
'foo' trans({}, null, 'nl')	Translate a message to a specific locale

Twig: Translation Tags

Tag	Description
{% trans %}message{% endtrans %}	Translate a translation message in the default locale
{% trans with {'name': 'value'} %}...	Translate a message with parameters
{% trans from 'app' %}...	Translate a message from a specific domain
{% trans into 'nl' %}...	Translate a message to a specific locale
{% trans_default_domain 'app' %}	Set the default translation domain for this template

Twig: String Filters

Filter	Description
'dateOfBirth' humanize	Transform a string into a human-readable format
':+1:' emojify	Convert emoji shortcodes to Unicode emojis

Console: Basic Usage

Command	Description
bin/console	List all available commands
bin/console <namespace>	List all available commands in a namespace / bundle
bin/console <command>	Run a command
bin/console help <command>	Display help for a command
bin/console --env=<env>	Run the console in dev/test/prod
bin/console -v vv vvv	Increase output verbosity
bin/console cache:clear	Clear the cache
bin/console cache:warmup	Warm up an empty cache

Console: Debugging Commands

Command	Description
bin/console debug:asset-map	Display all mapped assets
bin/console debug:autowiring	List all autowireable services
bin/console debug:config <bundle>	Dump bundle configuration
bin/console debug:container	List all public services
bin/console debug:container <service>	Get information about a service
bin/console debug:container --env-vars	Display container env vars
bin/console debug:container --tags	List tagged public services
bin/console debug:container --tag=<t>	List services with a specific tag
bin/console debug:dotenv	Display parsed dotenv values
bin/console debug:dotenv <search>	Display matching dotenv values
bin/console debug:event-dispatcher	List all registered event listeners
bin/console debug:firewall <name>	Display detailed information about a firewall
bin/console debug:form	Display form type information
bin/console debug:messenger	List dispatchable messages
bin/console debug:router	List all registered routes
bin/console debug:router <name>	Get information about a route
bin/console debug:translation <loc>	Display messages for locale
bin/console router:match <path>	Show matching route(s) for a path

Console: Linting Commands

Command	Description
bin/console lint:container	Check service arguments for type mismatches
bin/console lint:twig <directory>	Lint Twig templates for syntax errors
bin/console lint:yaml <directory>	Lint YAML files for syntax errors
bin/console lint:xliff <directory>	Lint XLIFF translation files for syntax errors

Console: AssetMap Commands

Command	Description
bin/console asset-map:compile	Compile assets for production
bin/console importmap:require <package>	Add an NPM package to the import map
bin/console importmap:install	Download all importmap packages
bin/console importmap:update	Update all importmap packages
bin/console importmap:remove <package>	Remove a package from the importmap
bin/console importmap:outdated	List outdated importmap packages
bin/console importmap:audit	Check dependencies for vulnerabilities

Console: Doctrine Commands

Command	Description
bin/console doctrine:database:create	Create the configured database
bin/console doctrine:database:drop	Drop the configured database
bin/console doctrine:mapping:info	List mapped entities
bin/console doctrine:schema:update --dump-sql	Generate SQL statements to sync the DB schema
bin/console doctrine:schema:update --force	Sync the DB schema with the mapping information
bin/console doctrine:schema:validate	Validate the mapping files
bin/console doctrine:query:sql <sql>	Run a SQL query
bin/console doctrine:query:dql <dql>	Run a DQL query
bin/console doctrine:fixtures:load	Load data fixtures to the DB

Console: Autocompletion

```
bin/console completion bash | sudo tee /etc/bash_completion.d/console
```