

Twig (template engine)

Twig is a [template engine](#) for the [PHP](#) programming language. Its syntax originates from [Jinja](#) and [Django](#) templates.^[3] It's an open source product^[4] licensed under a [BSD License](#) and maintained by Fabien Potencier. The initial version was created by [Armin Ronacher](#). [Symfony](#) PHP framework comes with a bundled support for Twig as its default template engine since version 2.^[5]

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Twig

Original author(s)	Armin Ronacher , ^[1] Fabien Potencier
Developer(s)	Symfony SAS (https://symfony.com)
Initial release	October 12, 2009
Stable release	3.3.2 ^[2] / 16 May 2021
Repository	github.com/twigphp/Twig (https://github.com/twigphp/Twig)
Written in	PHP
Operating system	Cross-platform
Type	Template engine
License	BSD License
Website	twig.symfony.com (https://twig.symfony.com)

Features

- complex control flow
- automatic escaping
- template inheritance
- variable filters^[6]
- i18n support (gettext)
- macros
- fully extendable^{[3][7]}

Twig is supported by the following [integrated development environments](#):^[3]

- [Eclipse](#) via the Twig plugin
- [Komodo](#) and [Komodo Edit](#) via the Twig highlight/syntax check mode
- [NetBeans](#) via the Twig syntax plugin (until 7.1, native as of 7.2)
- [PhpStorm](#) (native as of 2.1)

And the text editors:

- [Atom](#) via the PHP-twig for atom

- [emacs](#) via `web-mode.el`
- [Notepad++](#) via the Notepad++ Twig Highlighter
- [Sublime Text](#) via the Twig bundle
- [TextMate](#) via the Twig bundle
- [vim](#) via the Jinja syntax plugin or the vim-twig plugin
- [Brackets](#) via Brackets Twig
- [Visual Studio Code](#) via the Twig extension
- [GTKSourceView](#) via the Twig language definition
- [Coda](#) via the Twig syntax mode
- [Coda 2](#) via the other Twig syntax mode
- [SubEthaEdit](#) via the Twig syntax mode

Syntax

Twig defines three kinds of delimiters:

- `{{ ... }}`, to print the content of variables or the result of evaluating an expression (e.g.: an inherited Twig template with `{{ parent() }}`).
- `{# ... #}`, to add comments in the templates. These comments aren't included in the rendered page.
- `{% ... %}`, to execute statements, such as for-loops.
 - `{% set foo = 'bar' %}`, to assign.^[8]
 - `{% if i is defined and i == 1%} ... {% endif %}`: condition.
 - `{% for i in 0..10 %} ... {% endfor %}`: counter in a loop.

The apostrophe (') is the escape character.

To create an iterative array:

```
{% set myArray = [1, 2] %}
```

An associative array:

```
{% set myArray = {'key': 'value'} %}
```

Operators precedence

The operators precedence is,^[3] from the less to more priority:

Operator	Role
b-and	<u>Bitwise</u> AND
b-xor	<u>Bitwise</u> XOR
b-or	<u>Bitwise</u> OR
or	Or
and	And
==	Is equal?
!=	Is different?
<	Inferior
>	Superior
>=	Superior or equal
<=	Inferior or equal
in	Into
matches	Corresponds
starts with	Begins by
ends with	Finishes by
..	Sequence (ex: 1 . . 5)
+	Plus
-	Less
~	Concatenation
*	Multiplication
/	Division
//	Division rounded to lower
%	Modulo
is	Test (ex: is defined or is not empty)
**	Power
	Filter ^[6]
[]	Array entry
.	Attribute or method from an object (ex: country.name)

Filters

The filters provide some treatments on an expression, when place after it, separated by pipes. For example:^[6]

- `capitalize`: changes a string's first letter to capital.
- `upper`: changes a whole string to capital.
- `first`: displays the first line of an array.
- `length`: returns a variable size.

Special variables

- `loop` contains the current loop information. For example `loop.index` corresponds to the number of iterations which have already occurred.
- The global variables begin with underscores. For example:
 - `_route` (URL part located after the domain)
 - `_self` (current file name)

```
So, to the a page route: {{
path(app.request.attributes.get('_route'),
app.request.attributes.get('_route_params')) }}
```

- The CGI environment variables, such as `{{ app.request.server.get('SERVER_NAME') }}`.

Example

The example below demonstrates some basic features of Twig.

```
{% extends "base.html" %}
{% block navigation %}
    <ul id="navigation">
        {% for item in navigation %}
            <li>
                <a href="{ { item.href } }">
                    {% if item.level == 2 %}&nbsp;&nbsp;   {% endif %}
                    {{ item.caption|upper }}
                </a>
            </li>
        {% endfor %}
    </ul>
{% endblock navigation %}
```

See also

- Smarty

References

1. ["mitsuhiko/twig"](https://github.com/mitsuhiko/twig) (<https://github.com/mitsuhiko/twig>). August 13, 2019 – via GitHub.
2. ["Release 3.3.2"](https://github.com/twigphp/Twig/releases/tag/v3.3.2) (<https://github.com/twigphp/Twig/releases/tag/v3.3.2>). 16 May 2021. Retrieved 22 May 2021.
3. ["Twig for Template Designers - Documentation - Twig - The flexible, fast, and secure PHP template engine"](https://twig.symfony.com/doc/3.x/templates.html) (<https://twig.symfony.com/doc/3.x/templates.html>). *twig.symfony.com*.
4. ["twigphp/Twig"](https://github.com/twigphp/Twig) (<https://github.com/twigphp/Twig>). July 1, 2020 – via GitHub.
5. ["Symfony2 Documentation — Documentation"](https://web.archive.org/web/20100805001936/http://docs.symfony-reloaded.org/?page=learn) (<https://web.archive.org/web/20100805001936/http://docs.symfony-reloaded.org/?page=learn>). *web.archive.org*. August 5, 2010.
6. ["Filters - Documentation - Twig - The flexible, fast, and secure PHP template engine"](https://twig.symfony.com/doc/3.x/filters/index.html) (<https://twig.symfony.com/doc/3.x/filters/index.html>). *twig.symfony.com*.
7. ["Extending Twig - Documentation - Twig - The flexible, fast, and secure PHP template engine"](https://twig.symfony.com/doc/3.x/advanced.html) (<https://twig.symfony.com/doc/3.x/advanced.html>). *twig.symfony.com*.

8. "set - Documentation - Twig - The flexible, fast, and secure PHP template engine" (<https://twig.symfony.com/doc/2.x/tags/set.html>). *twig.symfony.com*.

External links

- [Twig official website \(https://twig.symfony.com\)](https://twig.symfony.com)
 - [Templating Engines in PHP \(http://fabien.potencier.org/article/34/templating-engines-in-php\)](http://fabien.potencier.org/article/34/templating-engines-in-php), Fabien Potencier, 2009
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