

Sensio**Labs**

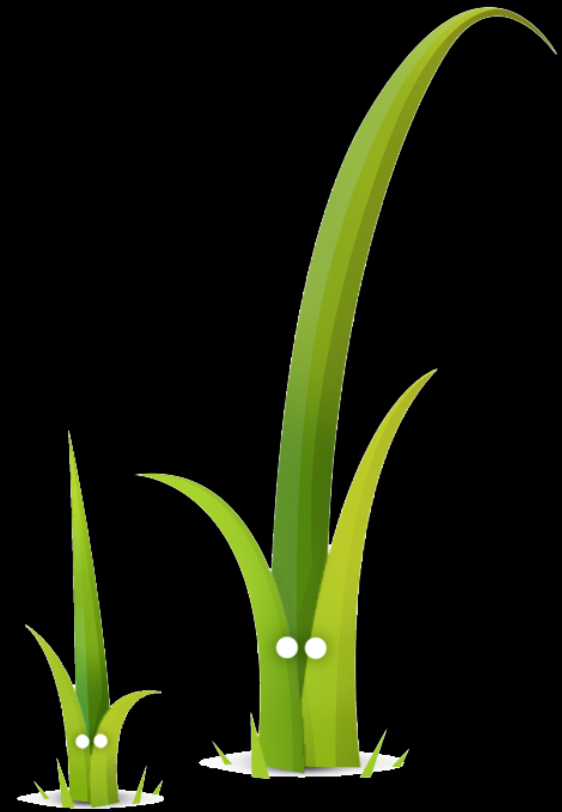


Symfony

Hacking & Extending Symfony2

SF2C3

Extending Twig



Registering a new Twig extension

The Twig API is flexible enough to allow the addition of new features like filters, macros or functions.

Registering a new Twig extension

```
namespace SensioLabs\DemoBundle\Twig;
```

```
class TextExtension extends \Twig_Extension
{
    public function getName()
    {
        return 'sensio.demo.text';
    }
}
```

Registering a new Twig extension

The new Twig extension class has to be registered as a service in the Dependency Injection Container object in order to be loaded by Twig.

```
# src/SensioLabs/DemoBundle/Resources/config/services.yml
parameters:
    sensiolabs_demo.text_extension.class: SensioLabs\DemoBundle\Twig\TextExtension

services:
    sensiolabs_demo.text_extension:
        class: %sensiolabs_demo.text_extension.class%
        public: false
        tags: [ { name: twig.extension } ]
```

Registering a new Twig extension

```
<?xml version="1.0" ?>
<container ...>
    <parameters>
        <parameter
key="sensiolabs_demo.text_extension.class">SensioLabs\DemoBundle\Twig
\TextExtension</parameter>
    </parameters>

    <services>
        <!-- ... -->
        <service id="sensiolabs_demo.text_extension"
            class="%sensiolabs_demo.text_extension.class%"
            public="false">
            <tag name="twig.extension" />
        </service>
    </services>
</container>
```

Creating Macros

What is a macro?

Macros are comparable with functions in regular programming languages. They are useful to put often used HTML idioms into reusable elements to not repeat yourself.

Creating a new macro

Popover top

Sed posuere consectetur est at lobortis. Aenean eu leo quam. Pellentesque ornare sem lacinia quam venenatis vestibulum.

Popover right

Sed posuere consectetur est at lobortis. Aenean eu leo quam. Pellentesque ornare sem lacinia quam venenatis vestibulum.

```
<div class="popover top">  
  <div class="arrow"></div>  
  <h3 class="popover-title">Popover top</h3>  
  <div class="popover-content">  
    <p>Sed posuere consectetur est at lobortis. Aenean eu leo quam.  
    Pellentesque ornare sem lacinia quam venenatis vestibulum.</p>  
  </div>  
</div>
```

Creating a new macro

```
{# src/Sensio/Bundle/DemoBundle/Resources/views/macros.html.twig #}

{% macro popover(title, content, position) %}
    <div class="popover {{ position|default('top') }}">
        <div class="arrow"></div>
        <h3 class="popover-title">{{ title }}</h3>
        <div class="popover-content">
            <p>{{ content|raw }}</p>
        </div>
    </div>
{% endmacro %}
```

Import and use some macros

```
{% import "SensioDemoBundle::macros.html.twig" as ui %}
```

```
{{  
    ui.popover('Top Popover', 'I am a top popover')  
}}
```

Creating a new Twig function

Registering a new Twig function

Registering new **functions** is as simple as overriding the parent « **getFunctions()** » method that returns a list of functions definitions.

```
class TextExtension extends \Twig_Extension
{
    # ...

    public function getFunctions()
    {
        return array(
            new \Twig_SimpleFunction('gravatar', array($this, 'getGravatarUri')),
        );
    }
}
```

Registering a new Twig function

```
class TextExtension extends \Twig_Extension
{
    # ...

    public function getGravatarUri($email, $size = '80', $rating = 'g')
    {
        $url = 'http://www.gravatar.com/avatar/%s?size=%u&rating=%s';

        $hash = md5(strtolower(trim($email)));

        return sprintf($url, $hash, (int) $size, $rating);
    }
}
```

Registering a new Twig function

Using the function from a template reads as follow:

```
{% block content %}
```

```
    
```

```
{% endblock %}
```


Creating a new Twig filter

Registering a new Twig filter

Registering new **filters** is as simple as overriding the parent « **getFilters()** » method that returns a list of filters definitions.

```
class TextExtension extends \Twig_Extension
{
    # ...

    public function getFilters()
    {
        return array(
            new \Twig_SimpleFilter('truncate', array($this, 'truncate')),
            new \Twig_SimpleFilter('highlight', array($this, 'highlight'), array(
                'pre_escape' => 'html',
            )),
        );
    }
}
```

Registering a new Twig filter

```
class TextExtension extends \Twig_Extension
{
    # ...

    public function truncate($text, $max = 30)
    {
        if (mb_strlen($text) > $max) {
            $text = mb_substr($text, 0, $max);
            $text = mb_substr($text, 0, mb_strrpos($text, ' '));
            $text.= '...';
        }

        return $text;
    }
}
```

```
class TextExtension extends \Twig_Extension
{
    # ...

    // @see http://expreg.com/lire-Chaines-source
    public function highlight($text, $keyword)
    {
        $matches = preg_split('`(</?[a-z]+[^\>]*>)`i', $text, -1,
PREG_SPLIT_DELIM_CAPTURE);

        $highlighted = array();
        foreach ($matches as $key => $value) {
            if (0 !== strpos($value, '<')) {
                $highlighted[$key] = preg_replace('`\b' . $keyword . '\b`i',
                    '<span class="highlight">$0</span>',
                    $value
                );
            }
        }

        return implode($highlighted);
    }
}
```

```
{% block content %}
```

```
    {% set text = "Deux brèches de huit mètres de large sont  
apparues..." %}
```

```
    {{ text|truncate(35) }}
```

```
    {% set text = "Lorem ipsum dolor sit amet, consectetur adipiscing  
elit. Etiam nec tellus sed sem malesuada dictum. Proin auctor  
volutpat enim, a blandit risus tempus vel. Integer convallis, augue  
ut tristique pretium, mauris tellus facilisis urna, id interdum quam  
diam ac nunc. Pellentesque at erat enim. Nulla facilisi. Integer nec  
risus at dolor commodo vehicula. Quisque porttitor, dolor vel lacinia  
lobortis, libero purus accumsan tellus, a hendrerit mauris magna id  
orci. Duis aliquet porta odio et congue. Nam massa dui, rhoncus et  
euismod vitae, scelerisque eu ipsum. Nullam volutpat dignissim  
varius." %}
```

```
    {{ text|highlight('lorem')|raw }}
```

```
{% endblock %}
```



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