Next Level Twig

Using extensions to bend templates to your will

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Limitations of Twig

We will not be defeated

Limitations

- Only renders values

- No access to "outside" functionality

- Limited whitelist of callable class methods

- Overly-complicated logic

- Redundant code

Twig Extensions

Filters, and Functions

Filters & Functions

```twig
{# Link to frontpage view. #}
<a href="{{ path('view.frontpage.page_1') }}">{{ 'View all content'|t }}</a>


{# Link to user entity/profile page. #}
<a href="{{ path('entity.user.canonical', {'user': user.id}) }}">{{ 'View user profile'|t }}</a>


{# Link to node page. #}
<a href="{{ path('entity.node.canonical', {'node': node.id}) }}">{{ 'View node page'|t }}</a>
```

Core Twig Filters

- clean_class
- clean_id
- format_date
- placeholder
- raw

- render
- safe_join
- t (or "trans")
- without

Core Twig Functions

- attach_library($library)

- create_attribute($attributes)

- file_url($uri)

- link($text, $url, $attributes)

- path($name, $parameters, $options)

- url($name, $parameters, $options)

Contrib

Twig Tweak

Filters

- token_replace

- php

- preg_replace

- image_style

- transliterate

- check_markup

- view

https://www.drupal.org/project/twig_tweak

Twig Tweak - Functions

- drupal_view()
- drupal_view_result()
- drupal_block()
- drupal_region()
- drupal_entity()
- drupal_field()
- drupal_menu()
- drupal_form()

- drupal_image()
- drupal_token()
- drupal_config()
- drupal_dump()
- dd()
- drupal_title()
- drupal_url()
- drupal_link()

Twig Extensions

- Drupal module to integrate `twig/extensions` from Packagist (Composer)

- Filters and functions for array, date, internationalization and text handling

https://www.drupal.org/project/twig_extensions

Custom Extensions

Add your own filters and functions to use in Twig templates

Define a service

twig_tweak.services.yml

```
1  services:
2    twig_tweak.twig_extension:
3      class: Drupal\twig_tweak\TwigExtension
4      tags:
5        - { name: twig.extension }
```

Create the service class

- Create the class declared in ***.services.yml**

  - Extend abstract **\Twig_Extension**

- Implement **::getFilters** method

  - Declare filters as an array of **\Twig_SimpleFilter** objects

- Implement **::getFunctions** method

  - Declare functions as an array of **\Twig_SimpleFunction** objects

\Twig_Extension::getFilters

```php
51    /**
52     * {@inheritdoc}
53     */
54    public function getFilters() {
55      $filters = [
56        new \Twig_SimpleFilter('token_replace', [$this, 'tokenReplaceFilter']),
57        new \Twig_SimpleFilter('preg_replace', [$this, 'pregReplaceFilter']),
58        new \Twig_SimpleFilter('image_style', [$this, 'imageStyle']),
59        new \Twig_SimpleFilter('transliterate', [$this, 'transliterate']),
60        new \Twig_SimpleFilter('check_markup', [$this, 'checkMarkup']),
61        new \Twig_SimpleFilter('view', [$this, 'view']),
62      ];
63      // PHP filter should be enabled in settings.php file.
64      if (Settings::get('twig_tweak_enable_php_filter')) {
65        $filters[] = new \Twig_SimpleFilter('php', [$this, 'phpFilter']);
66      }
67      return $filters;
68    }
```

\Twig_Extension::getFunctions

```php
27    /**
28     * {@inheritdoc}
29     */
30    public function getFunctions() {
31      return [
32        new \Twig_SimpleFunction('drupal_view', 'views_embed_view'),
33        new \Twig_SimpleFunction('drupal_view_result', 'views_get_view_result'),
34        new \Twig_SimpleFunction('drupal_block', [$this, 'drupalBlock']),
35        new \Twig_SimpleFunction('drupal_region', [$this, 'drupalRegion']),
36        new \Twig_SimpleFunction('drupal_entity', [$this, 'drupalEntity']),
37        new \Twig_SimpleFunction('drupal_field', [$this, 'drupalField']),
38        new \Twig_SimpleFunction('drupal_menu', [$this, 'drupalMenu']),
39        new \Twig_SimpleFunction('drupal_form', [$this, 'drupalForm']),
40        new \Twig_SimpleFunction('drupal_image', [$this, 'drupalImage']),
41        new \Twig_SimpleFunction('drupal_token', [$this, 'drupalToken']),
42        new \Twig_SimpleFunction('drupal_config', [$this, 'drupalConfig']),
43        new \Twig_SimpleFunction('drupal_dump', [$this, 'drupalDump']),
44        new \Twig_SimpleFunction('dd', [$this, 'drupalDump']),
45        new \Twig_SimpleFunction('drupal_title', [$this, 'drupalTitle']),
46        new \Twig_SimpleFunction('drupal_url', [$this, 'drupalUrl']),
47        new \Twig_SimpleFunction('drupal_link', [$this, 'drupalLink']),
48      ];
49    }
```
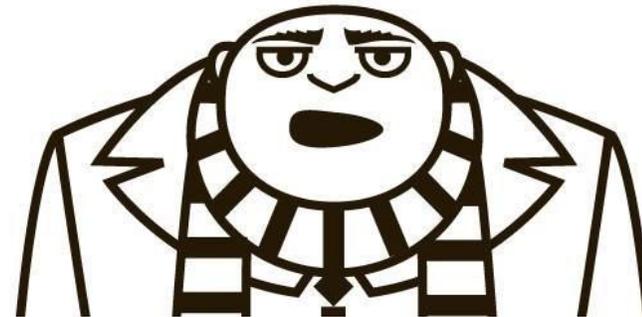
Keys to success

Tips

- Eliminate complex logic from templates

- Consolidate and reuse logic

- Use functions & filters as a wrapper/pass-through

- Access properties of entities, not rendered values

Golden Rule

DON'T GO NUTS WITH THE SPRINKLES

Wrapping Up

Resources

Twig extension 1.x documentation: https://twig.symfony.com/doc/1.x/advanced.html

Drupal Core Twig Filters: https://www.drupal.org/node/2357633

Drupal Core Twig Functions: https://www.drupal.org/node/2486991

Twig Tweak: https://www.drupal.org/project/twig_tweak

Twig Extensions: https://www.drupal.org/project/twig_extensions

Questions?

Evaluation

https://events.drupal.org/nashville2018/sessions/next-level-twig-extensions

or

https://events.drupal.org/node/21345

THANK YOU!

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