



— DRUPALCON —

Portland

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USING TWIG

The new template engine in Drupal 8

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Building Bridges, Connecting Communities

A NEW THEME ENGINE



TWIG

[ABOUT](#)[DOCUMENTATION](#)[BLOG](#)[DEVELOPMENT](#)[CONTRIBUTORS](#)

Twig Documentation

Read the online documentation to learn more about Twig.

- [Introduction / Installation](#)
- [Twig for Template Designers](#)
- [Twig for Developers](#)
- [Extending Twig](#)
- [Twig Internals](#)
- [Twig Recipes](#)
- [Coding Standards](#)
- [API](#)
- [Twig contributed extensions documentation](#)
- [License](#)

Twig Reference

Browse the online reference to learn more about built-in features.

You can download the documentation for offline reading:



well documented

TWIG

Extending Twig

Twig can be extended in many ways; you can add extra tags, filters, tests, operators, global variables, and functions. You can even extend the parser itself with node visitors.



The first section of this chapter describes how to extend Twig easily. If you want to reuse your changes in different projects or if you want to share them with others, you should then create an extension as described in the following section.

extensible

TWIG

- **Secure:** When it comes to security, Twig has some unique features:

- *Automatic output escaping:* To be on the safe side, you can enable automatic output escaping globally or for a block of code:

```
{% autoescape true %}
  {% var %}
  {% var|raw %}      {%# var won't be escaped #}
  {% var|escape %}   {%# var won't be doubled-escaped #}
{% endautoescape %}
```

- *Sandboxing:* Twig can evaluate any template in a sandbox environment where the user has access to a limited set of tags, filters, and object methods defined by the developer. Sandboxing can be enabled globally or locally for just some templates:

```
{% include "user.html" sandboxed %}
```

secure

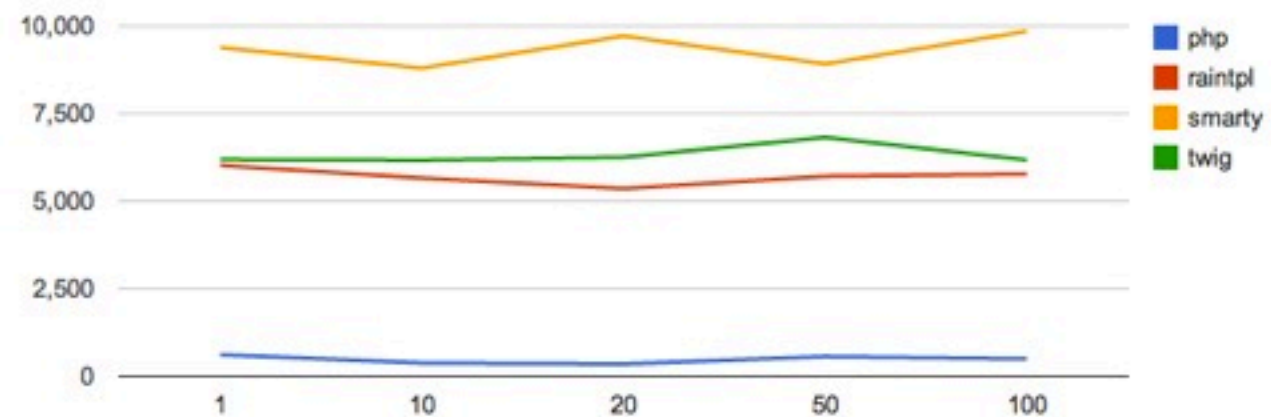
TWIG

Summary (assign)

Test	tot. time	tot. memory	package size
<u>php</u> 5.3.3-7+squeeze9	483 μ s	11.97 KB	4 KB
<u>raintpl</u> 2.7.0	5707 μ s	282.77 KB	37 KB
<u>twig</u> 1.5.1	6323 μ s	715.93 KB	647 KB
<u>smarty</u> 3.1.7	9336 μ s	1.28 MB	971 KB

Execution Time (assign)

Execution Time (μ s)



fast

TWIG



IDE integration

TWIG



recognizable syntax

TWIG



by the creator of Symfony, Fabien Potencier

TWIG

what does it look like?



TWIG

print variables with {{ ... }}

```
{% if items %}
<div class="item-list"> {% @todo remove this div %}
    {% if title %}
        <h3>{{ title }}</h3>
    {% endif %}
    {% if type == 'ol' %}
        <ol class="{{ attributes.class }}"{{ attributes }}>
    {% else %}
        <ul class="{{ attributes.class }}"{{ attributes }}>
    {% endif %}
    {% for item in items %}
        <li{{ item.attributes }}>{{ item.data }}</li>
    {% endfor %}
    {% if type == 'ol' %}
        </ol>
    {% else %}
        </ul>
    {% endif %}
</div> {% @todo remove this div %}
{% endif %}
```

TWIG

drill down into all variables with `.`

```
{% if items %}
<div class="item-list"> {% @todo remove this div #}
  {% if title %}
    <h3>{{ title }}</h3>
  {% endif %}
  {% if type == 'ol' %}
    <ol class="{{ attributes.class }}"{{ attributes }}>
  {% else %}
    <ul class="{{ attributes.class }}"{{ attributes }}>
  {% endif %}
  {% for item in items %}
    <li>{{ item.attributes }}<li>{{ item.data }}</li>
  {% endfor %}
  {% if type == 'ol' %}
    </ol>
  {% else %}
    </ul>
  {% endif %}
</div> {% @todo remove this div #}
{% endif %}
```


TWIG

add comments with {# ... #}

```
{% if items %}
<div class="item-list"> {# @todo remove this div #}
  {% if title %}
    <h3>{{ title }}</h3>
  {% endif %}
  {% if type == 'ol' %}
    <ol class="{{ attributes.class }}"{{ attributes }}>
  {% else %}
    <ul class="{{ attributes.class }}"{{ attributes }}>
  {% endif %}
  {% for item in items %}
    <li>{{ item.attributes }}>{{ item.data }}</li>
  {% endfor %}
  {% if type == 'ol' %}
    </ol>
  {% else %}
    </ul>
  {% endif %}
</div> {# @todo remove this div #}
{% endif %}
```

TWIG

use commands with {% ... %}

```
{% if items %}
<div class="item-list"> {# @todo remove this div #}
  {% if title %}
    <h3>{{ title }}</h3>
  {% endif %}
  {% if type == 'ol' %}
    <ol class="{{ attributes.class }}"{{ attributes }}>
  {% else %}
    <ul class="{{ attributes.class }}"{{ attributes }}>
  {% endif %}
  {% for item in items %}
    <li class="{{ item.attributes }}">{{ item.data }}</li>
  {% endfor %}
  {% if type == 'ol' %}
    </ol>
  {% else %}
    </ul>
  {% endif %}
</div> {# @todo remove this div #}
{% endif %}
```

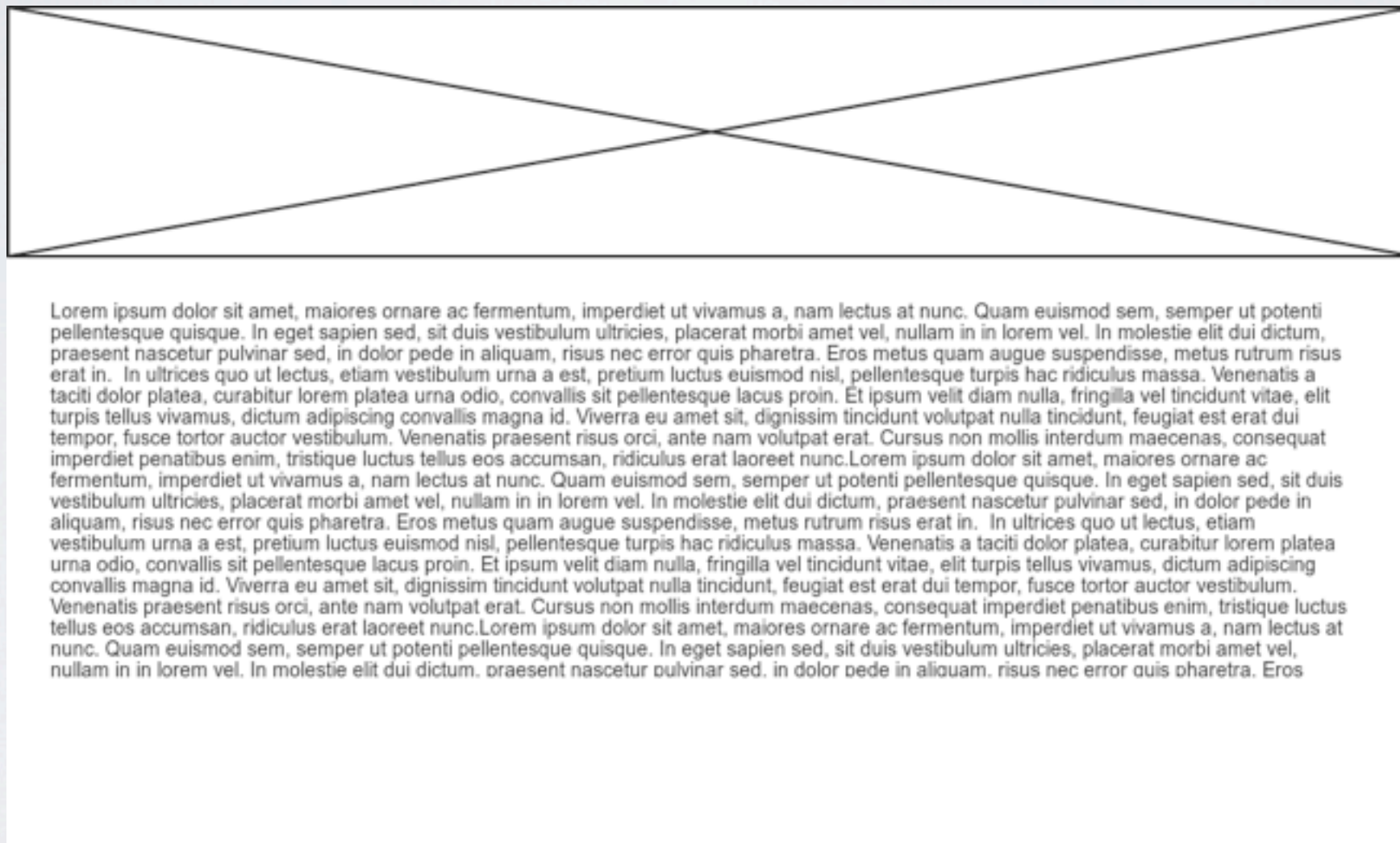

USING TWIG

Building a theme with Twig

<https://github.com/jenlampton/twigified>

USING TWIG

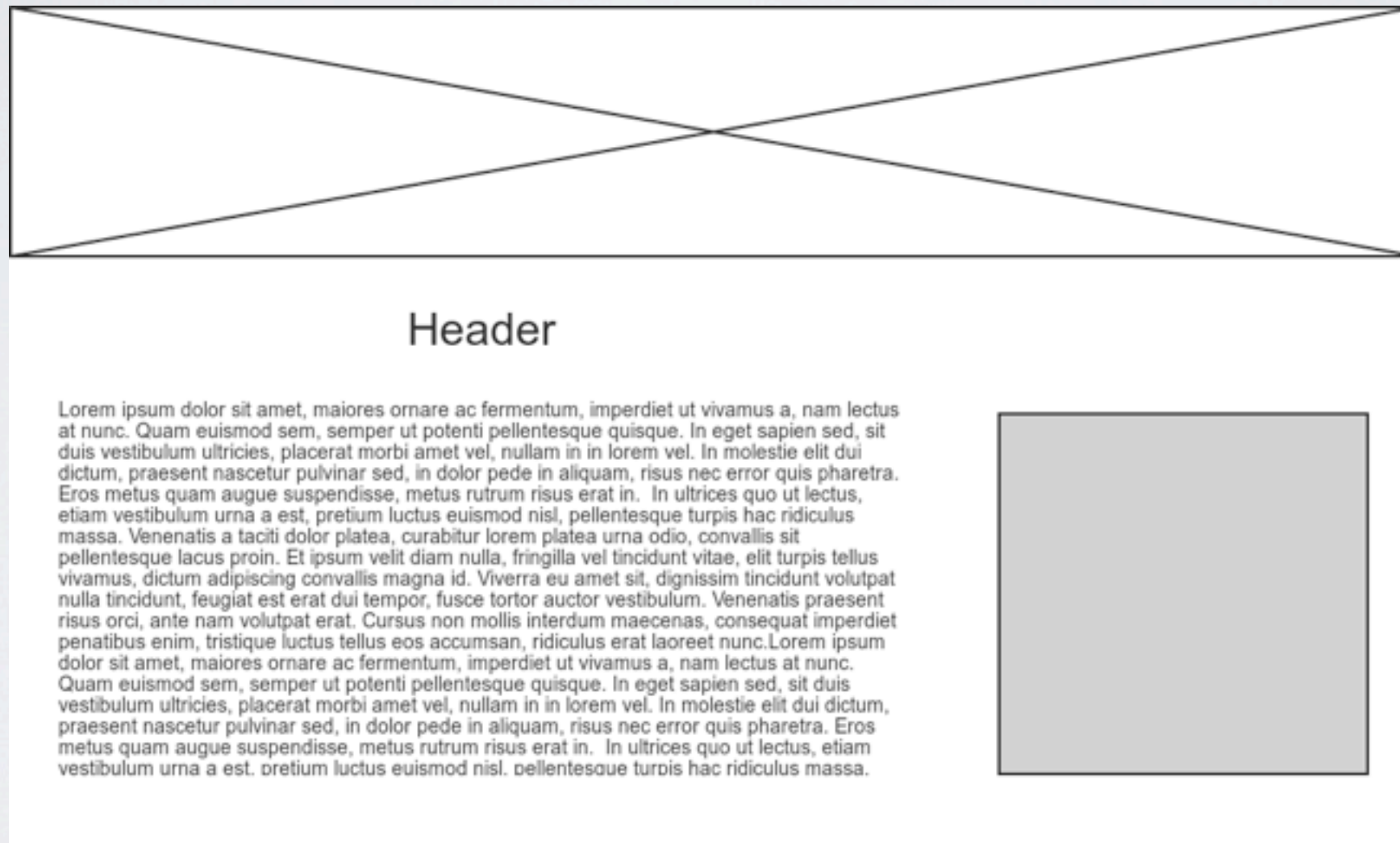
Step 1: Page template



wireframes by @micahgodbolt

USING TWIG

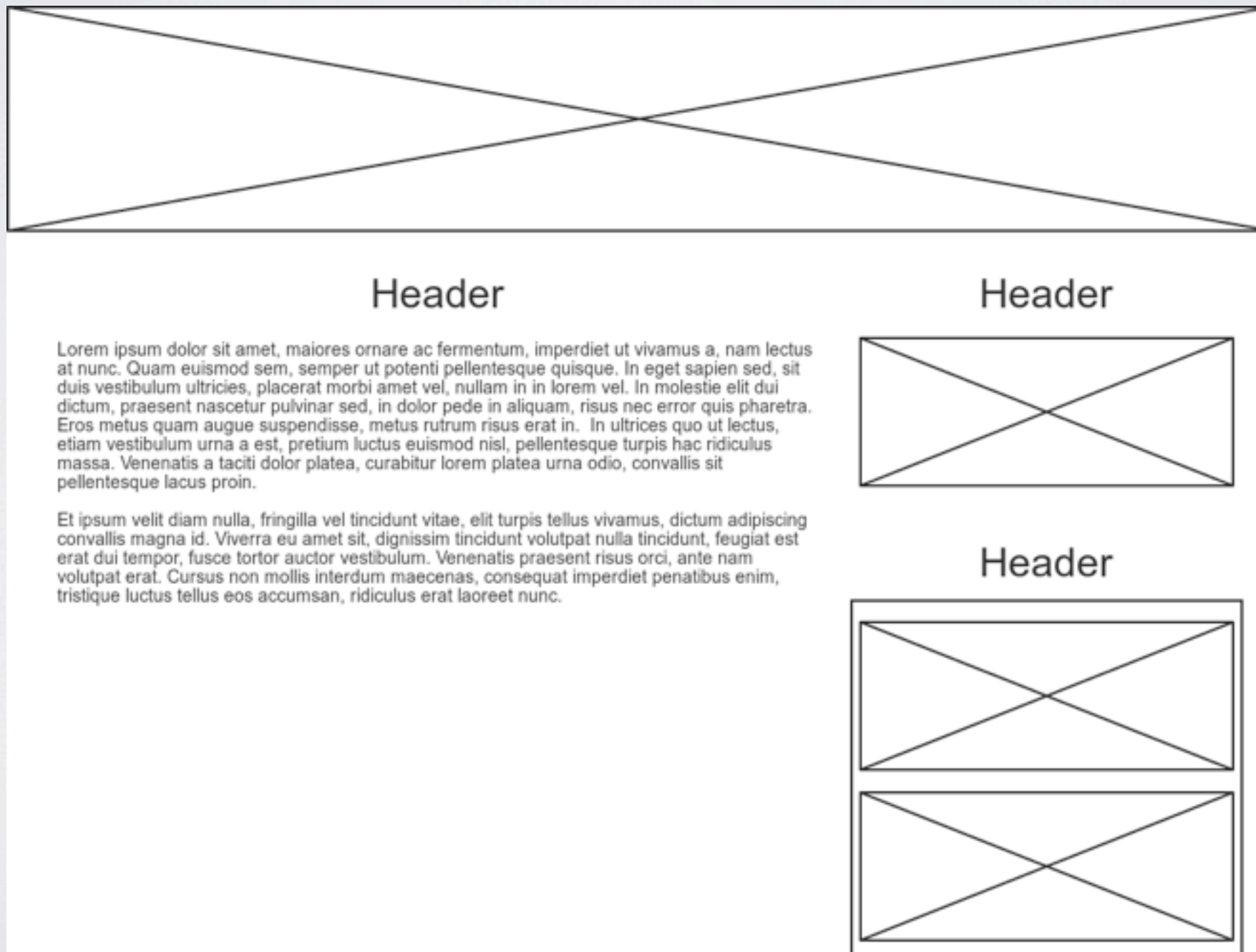
Step 2: Blog template



wireframes by @micahgodbolt

USING TWIG

Step 3: Multiple Image field display



CAN I HAZ CODE PLZ?

<https://github.com/jenlampton/twigified>

D7 PAIN POINTS

does Twig help?



TOP 7 PAIN POINTS IN D7

does Twig help?

I. Mixed data types

D7 PAIN POINT

Mixed data types

```
?>
<div id="node-<?php print $node->nid; ?>" class="<?php print $classes; ?> clearfix"<?php print $attributes; ?>
  <?php print render($title_prefix); ?>
  <?php if (!$page): ?>
    <h2<?php print $title_attributes; ?>
      <a href="<?php print $node_url; ?>"><?php print $title; ?></a>
    </h2>
  <?php endif; ?>
  <?php print render($title_suffix); ?>

  <?php if ($display_submitted): ?>
    <div class="meta submitted">
      <?php print $user_picture; ?>
      <?php print $submitted; ?>
    </div>
  <?php endif; ?>

  <?php if ($page['featured']): ?>
    <div class="section clearfix">
      <?php print render($page['featured']); ?>
    </div></div> <!-- /.section, /#featured -->
  <?php endif; ?>
```

String, Object or Array?

TOP 7 PAIN POINTS IN D7

does Twig help?

I. Mixed data types

All variables are accessed consistently:

node.nid
content.links

TOP 7 PAIN POINTS IN D7

does Twig help?

I. Mixed data types **FIXED**

TOP 7 PAIN POINTS IN D7

does Twig help?

1. Mixed data types **FIXED**
2. Different methods of printing variables

D7 PAIN POINT

Different methods of printing variables

```
?>
<div id="node-<?php print $node->nid; ?>" class="<?php print $classes; ?> clearfix"<?php print $attributes; ?>>
  <?php print render($title_prefix); ?>
  <?php if (!$page): ?>
    <h2<?php print $title_attributes; ?>>
      <a href="<?php print $node_url; ?>"><?php print $title; ?></a>
    </h2>
  <?php endif; ?>
  <?php print render($title_suffix); ?>

  <?php if ($display_submitted): ?>
    <div class="meta submitted">
      <?php print $user_picture; ?>
      <?php print $submitted; ?>
    </div>
  <?php endif; ?>

  <?php if ($page['featured']): ?>
    <div id="featured"><div class="section clearfix">
      <?php print render($page['featured']); ?>
    </div></div> <!-- /.section, /#featured -->
  <?php endif; ?>
```

print or print render()?

TOP 7 PAIN POINTS IN D7

does Twig help?

1. Mixed data types **FIXED**
2. Different methods of printing variables

Removed calls to render() from templates:

```
{{ node.nid }}  
{{ content.links }}
```

TOP 7 PAIN POINTS IN D7

does Twig help?

1. Mixed data types **FIXED**
2. Different methods of printing variables **FIXED**

TOP 7 PAIN POINTS IN D7

does Twig help?

1. Mixed data types **FIXED**
2. Different methods of printing variables **FIXED**
3. Two ways to override markup

D7 PAIN POINT

Two ways to override markup:

TEMPLATE FILES

```
<?php
// Remove the "Add new comment" link on the teaser page or if
// form is being displayed on the same page.
if ($teaser || !empty($content['comments']['comment_form'])) {
    unset($content['links']['comment']['#links']['comment-add']);
}
// Only display the wrapper div if there are links.
$links = render($content['links']);
if ($links):
?>
<div class="link-wrapper">
    <?php print $links; ?>
</div>
<?php endif; ?>

<?php print render($content['comments']); ?>
</div>
```

THEME FUNCTIONS

```
function bartik_field__taxonomy_term_reference($variables) {
    $output = '';

    // Render the label, if it's not hidden.
    if (!$variables['label_hidden']) {
        $output .= '<h3 class="field-label">' . $variables['label'] .
    }

    // Render the items.
    $output .= ($variables['element']['#label_display'] == 'inline'
    foreach ($variables['items'] as $delta => $item) {
        $output .= '<li class="taxonomy-term-reference-' . $delta . ' '
    }
    $output .= '</ul>';

    // Render the top-level DIV.
    $output = '<div class="' . $variables['classes'] . (in_array('
    return $output;
}
```

When do I use what?

TOP 7 PAIN POINTS IN D7

does Twig help?

1. Mixed data types **FIXED**
2. Different methods of printing variables **FIXED**
3. Two ways to override markup

All theme functions can become templates.

node.tpl.php becomes node.html.twig

theme_table() becomes table.html.twig

We're working on this right now

TOP 7 PAIN POINTS IN D7

does Twig help?

1. Mixed data types **FIXED**
2. Different methods of printing variables **FIXED**
3. Two ways to override markup **@todo**

TOP 7 PAIN POINTS IN D7

does Twig help?

1. Mixed data types **FIXED**
2. Different methods of printing variables **FIXED**
3. Two ways to override markup **FIXED**
4. Too many template files & theme functions

D7 PAIN POINT

TEMPLATE FILES

THEME FUNCTIONS

```

> find . -name *.tpl.php
./core/modules/aggregator/templates/aggregator-feed-source.tpl.php
./core/modules/aggregator/templates/aggregator-items.tpl.php
./core/modules/aggregator/templates/aggregator-summary-items.tpl.php
./core/modules/aggregator/templates/aggregator-wrapper.tpl.php
./core/modules/block/templates/block-admin-display-form.tpl.php
./core/modules/block/templates/block.tpl.php
./core/modules/block/tests/themes/block_test_theme/page.tpl.php
./core/modules/book/templates/book-all-books-block.tpl.php
./core/modules/book/templates/book-export-html.tpl.php
./core/modules/book/templates/book-navigation.tpl.php
./core/modules/book/templates/book-node-export-html.tpl.php
./core/modules/comment/templates/comment-wrapper.tpl.php
./core/modules/comment/templates/comment.tpl.php
./core/modules/field/templates/field.tpl.php
./core/modules/forum/templates/forum-icon.tpl.php
./core/modules/forum/templates/forum-list.tpl.php
./core/modules/forum/templates/forum-submitted.tpl.php
./core/modules/forum/templates/forum-topic-list.tpl.php
./core/modules/forum/templates/forums.tpl.php
./core/modules/layout/layouts/static/one-col/one-col.tpl.php
./core/modules/layout/layouts/static/two-col/two-col.tpl.php
./core/modules/layout/tests/layouts/static/one-col/one-col.tpl.php
./core/modules/layout/tests/themes/layout_test_theme/layouts/static/two-col/two-col.tpl.php
./core/modules/node/templates/node-edit-form.tpl.php
./core/modules/node/templates/node.tpl.php
./core/modules/overlay/templates/overlay.tpl.php
./core/modules/search/templates/search-result.tpl.php
./core/modules/search/templates/search-results.tpl.php
./core/modules/system/templates/html.tpl.php
./core/modules/system/templates/maintenance-page.tpl.php
./core/modules/system/templates/page.tpl.php
./core/modules/system/templates/region.tpl.php
./core/modules/system/templates/system-plugin-ui-form.tpl.php
./core/modules/system/tests/modules/theme_test/templates/theme_test.template_test.tpl.php
./core/modules/system/tests/themes/test_theme/node-1.tpl.php
./core/modules/system/tests/themes/test_theme/theme_test.template_test.tpl.php
./core/modules/taxonomy/templates/taxonomy-term.tpl.php
./core/modules/user/templates/user-picture.tpl.php
./core/modules/user/templates/user.tpl.php
./core/modules/views/templates/views-exposed-form.tpl.php
./core/modules/views/templates/views-some.tpl.php
./core/modules/views/templates/views-view-field.tpl.php
./core/modules/views/templates/views-view-fields.tpl.php
./core/modules/views/templates/views-view-grid.tpl.php
./core/modules/views/templates/views-view-grouping.tpl.php
./core/modules/views/templates/views-view-list.tpl.php
./core/modules/views/templates/views-view-row-rss.tpl.php
./core/modules/views/templates/views-view-rss.tpl.php
./core/modules/views/templates/views-view-summary-unformatted.tpl.php
./core/modules/views/templates/views-view-summary.tpl.php
./core/modules/views/templates/views-view-table.tpl.php
./core/modules/views/templates/views-view-unformatted.tpl.php
./core/modules/views/templates/views-view.tpl.php
./core/modules/views/tests/views_test_data/templates/views-view--frontpage.tpl.php
./core/modules/views/views_ui/templates/views-ui-display-tab-bucket.tpl.php
./core/modules/views/views_ui/templates/views-ui-display-tab-setting.tpl.php
./core/themes/bartik/templates/comment-wrapper.tpl.php
./core/themes/bartik/templates/comment.tpl.php
./core/themes/bartik/templates/maintenance-page.tpl.php
./core/themes/bartik/templates/node.tpl.php
./core/themes/bartik/templates/page.tpl.php
./core/themes/seven/templates/maintenance-page.tpl.php

```

[illegible]

TOP 7 PAIN POINTS IN D7

does Twig help?

1. Mixed data types **FIXED**
2. Different methods of printing variables **FIXED**
3. Two ways to override markup **FIXED**
4. Too many template files & theme functions

We're working on this right now

TOP 7 PAIN POINTS IN D7

does Twig help?

1. Mixed data types **FIXED**
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TOP 7 PAIN POINTS IN D7

does Twig help?

1. Mixed data types **FIXED**
2. Different methods of printing variables **FIXED**
3. Two ways to override markup **FIXED**
4. Too many template files & theme functions **@todo**
5. Insecure

D7 PAIN POINT

Insecure.

```
<?php print render($title_prefix); ?>
<?php if (!$page): ?>
  <h2<?php print $title_attributes; ?><a href="<?php print $node_url; ?>" rel=
<?php endif; ?>
<?php print render($title_suffix); ?>

<h3><?php print $node->field_subhead['und'][0]['value'] ?></h3>

<?php if ($display_submitted): ?>
  <footer>
    <?php print render($user_picture); ?>
    <p class="submitted"><?php print $submitted; ?></p>
  </footer>
<?php endif; ?>
```

Really insecure.

```
<?php db_query("DROP TABLE {node}"); ?>
```


TOP 7 PAIN POINTS IN D7

does Twig help?

1. Mixed data types **FIXED**
2. Different methods of printing variables **FIXED**
3. Two ways to override markup **FIXED**
4. Too many template files & theme functions **@todo**
5. Insecure

**All variables are *automatically* sanitized
and most PHP functions
cannot be executed in template files.**

TOP 7 PAIN POINTS IN D7

does Twig help?

1. Mixed data types **FIXED**
2. Different methods of printing variables **FIXED**
3. Two ways to override markup **@todo**
4. Too many template files & theme functions **@todo**
5. Insecure **FIXED** (mostly)

TOP 7 PAIN POINTS IN D7

does Twig help?

1. Mixed data types **FIXED**
2. Different methods of printing variables **FIXED**
3. Two ways to override markup **FIXED**
4. Too many template files & theme functions **@todo**
5. Insecure **FIXED**
6. Drupal-specific

TOP 7 PAIN POINTS IN D7

does Twig help?

1. Mixed data types **FIXED**
2. Different methods of printing variables **FIXED**
3. Two ways to override markup **FIXED**
4. Too many template files & theme functions **@todo**
5. Insecure **FIXED**
6. Drupal-specific

**Twig is used elsewhere on the web,
is syntactically similar to other languages,
and looks a lot more like HTML.**

TOP 7 PAIN POINTS IN D7

does Twig help?

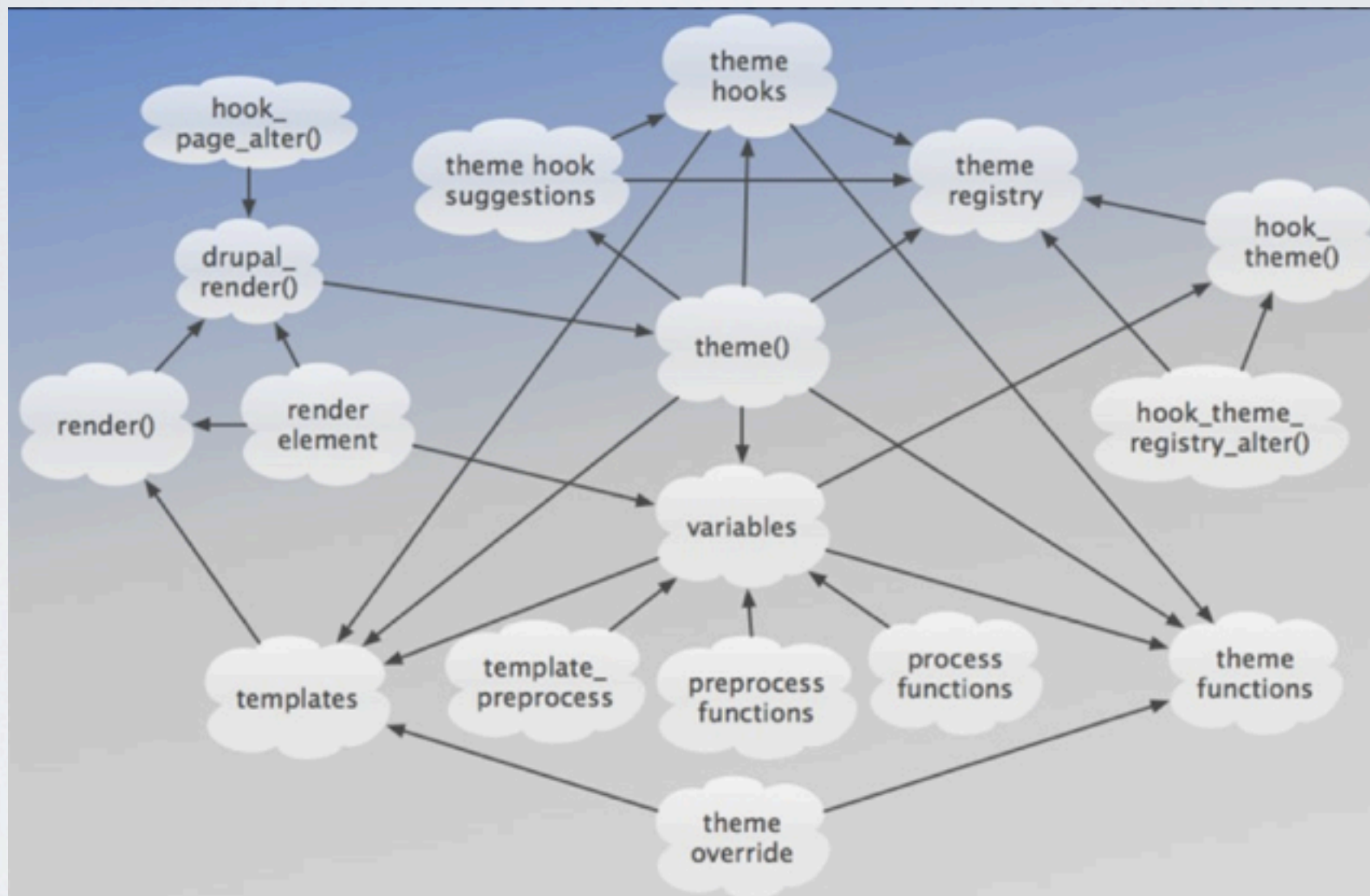
1. Mixed data types **FIXED**
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4. Too many template files & theme functions **@todo**
5. Insecure **FIXED** (mostly)
6. Drupal-specific **FIXED**

TOP 7 PAIN POINTS IN D7

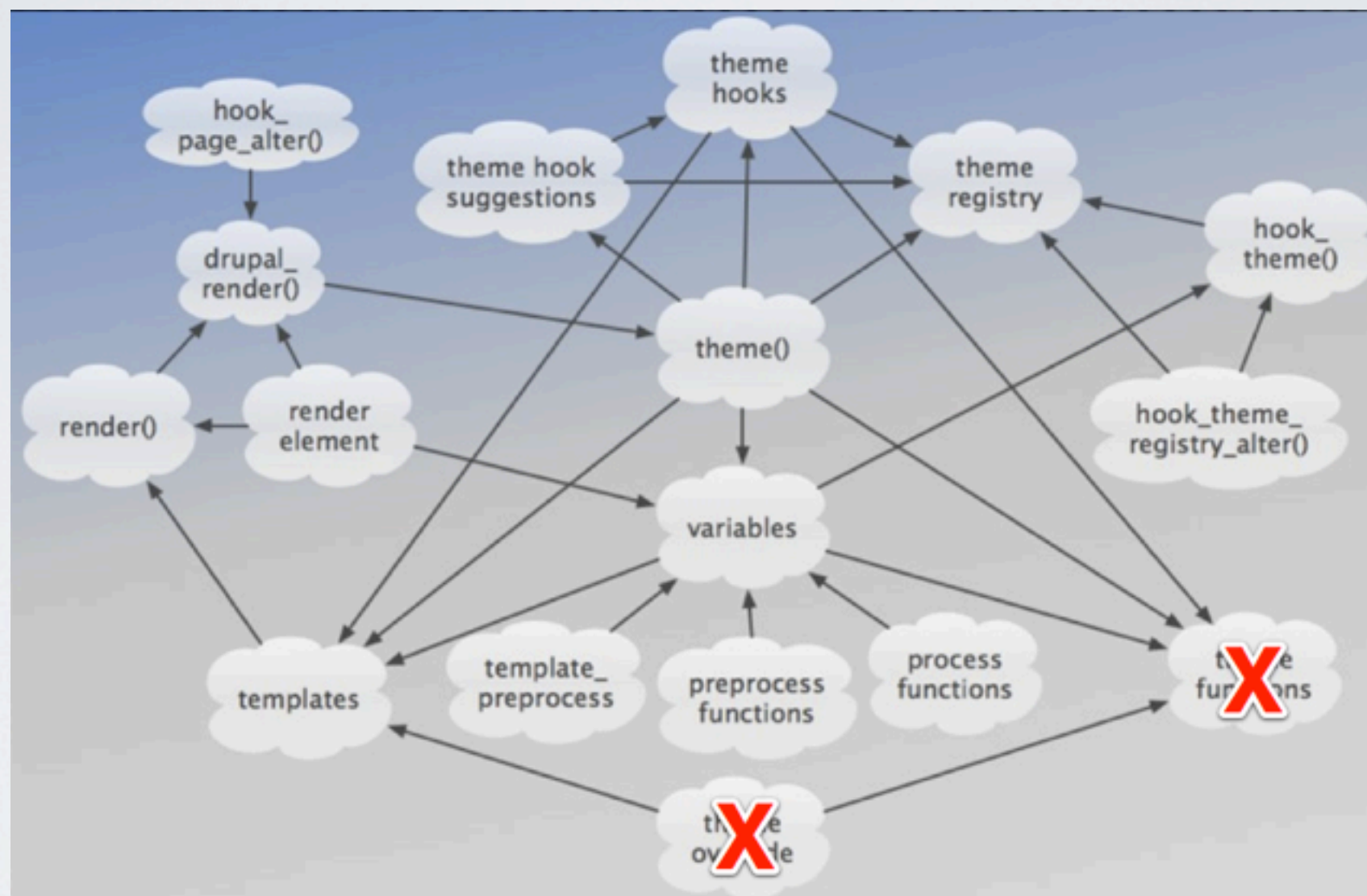
does Twig help?

1. Mixed data types **FIXED**
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4. Too many template files & theme functions **@todo**
5. Insecure **FIXED**
6. Drupal-specific **FIXED**
7. A complex mix of subsystems

D7 PAIN POINT

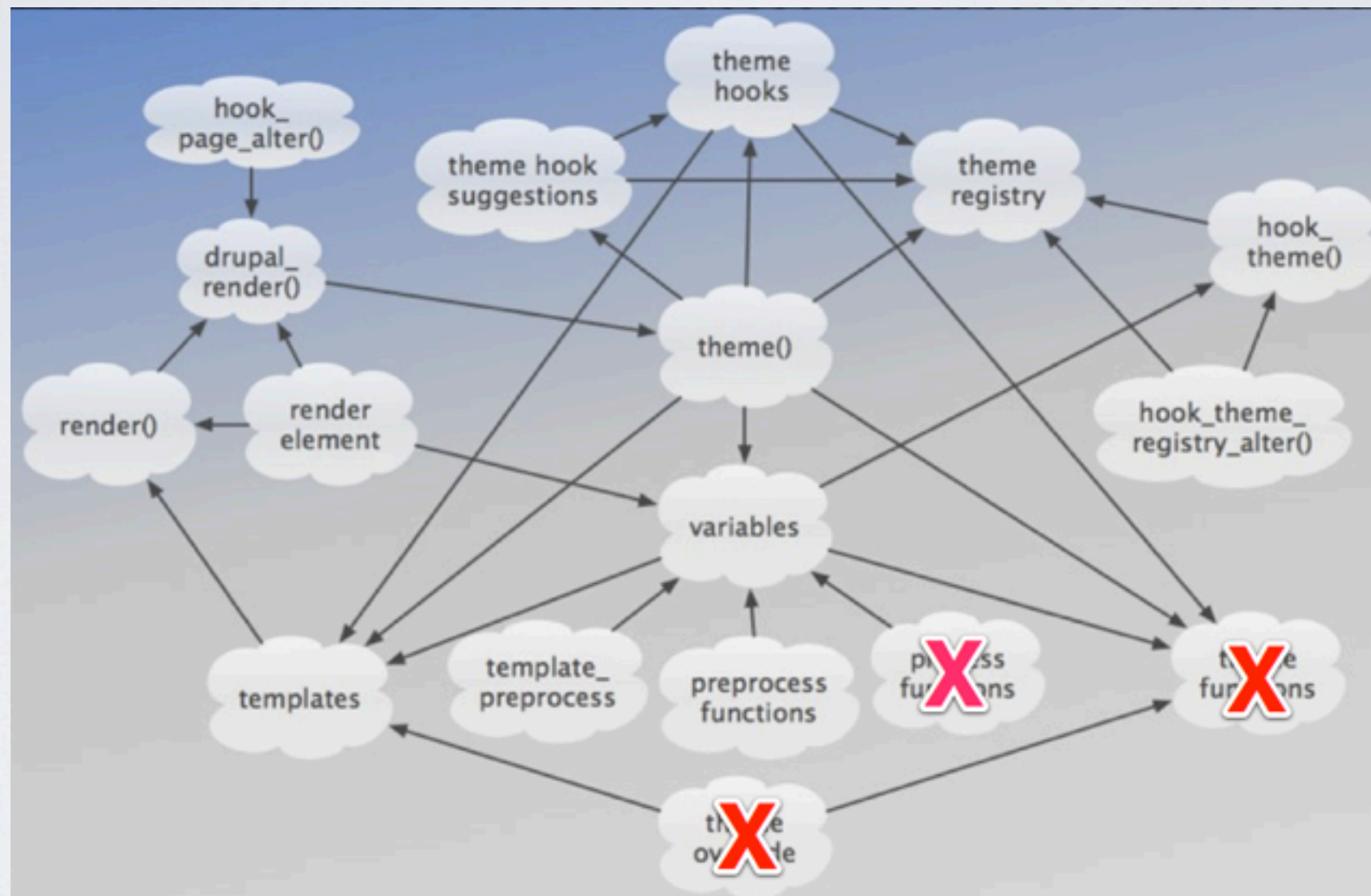


D8 IMPROVEMENTS



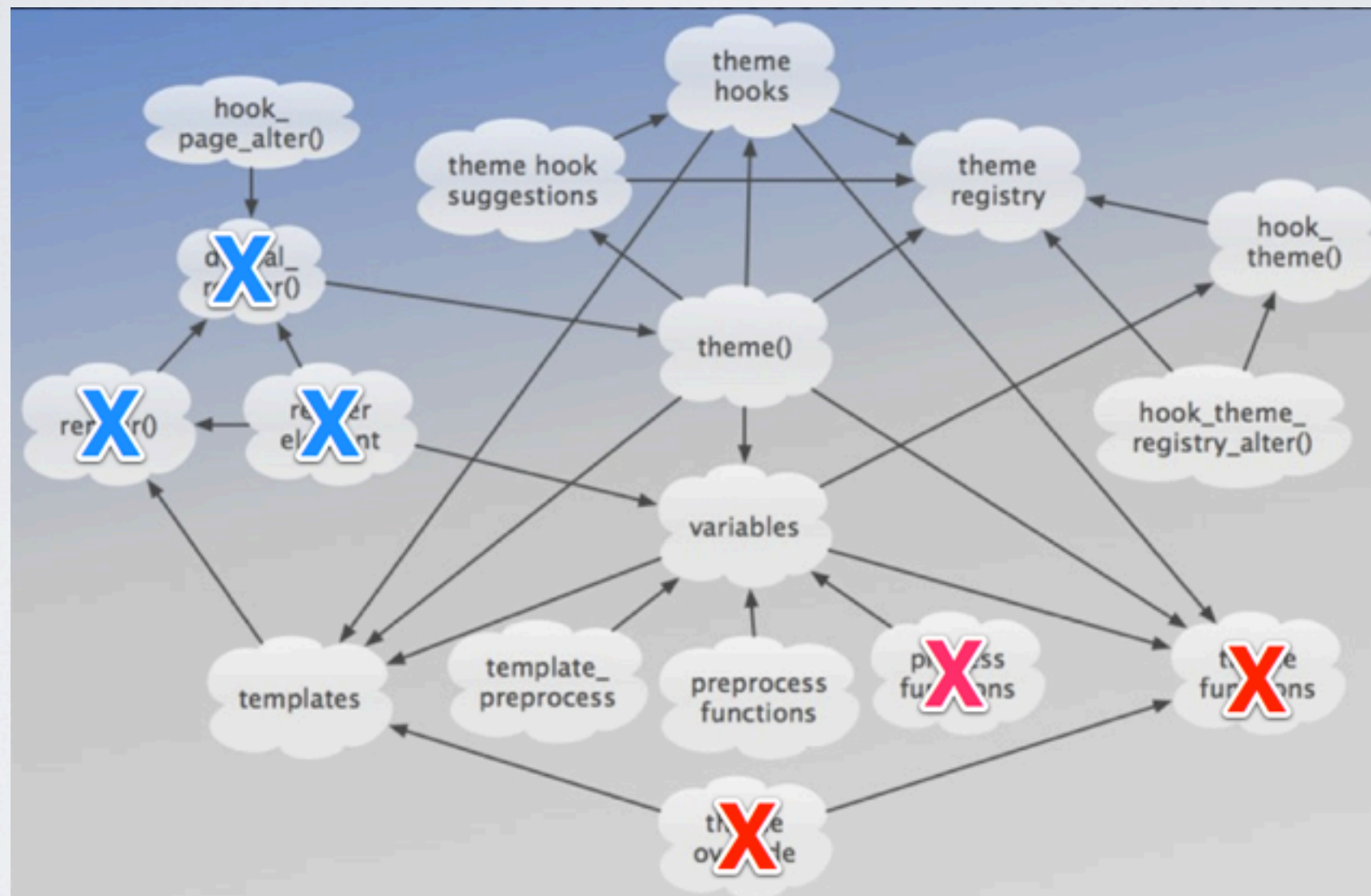
remove theme functions (and overrides) entirely.

D8 IMPROVEMENTS



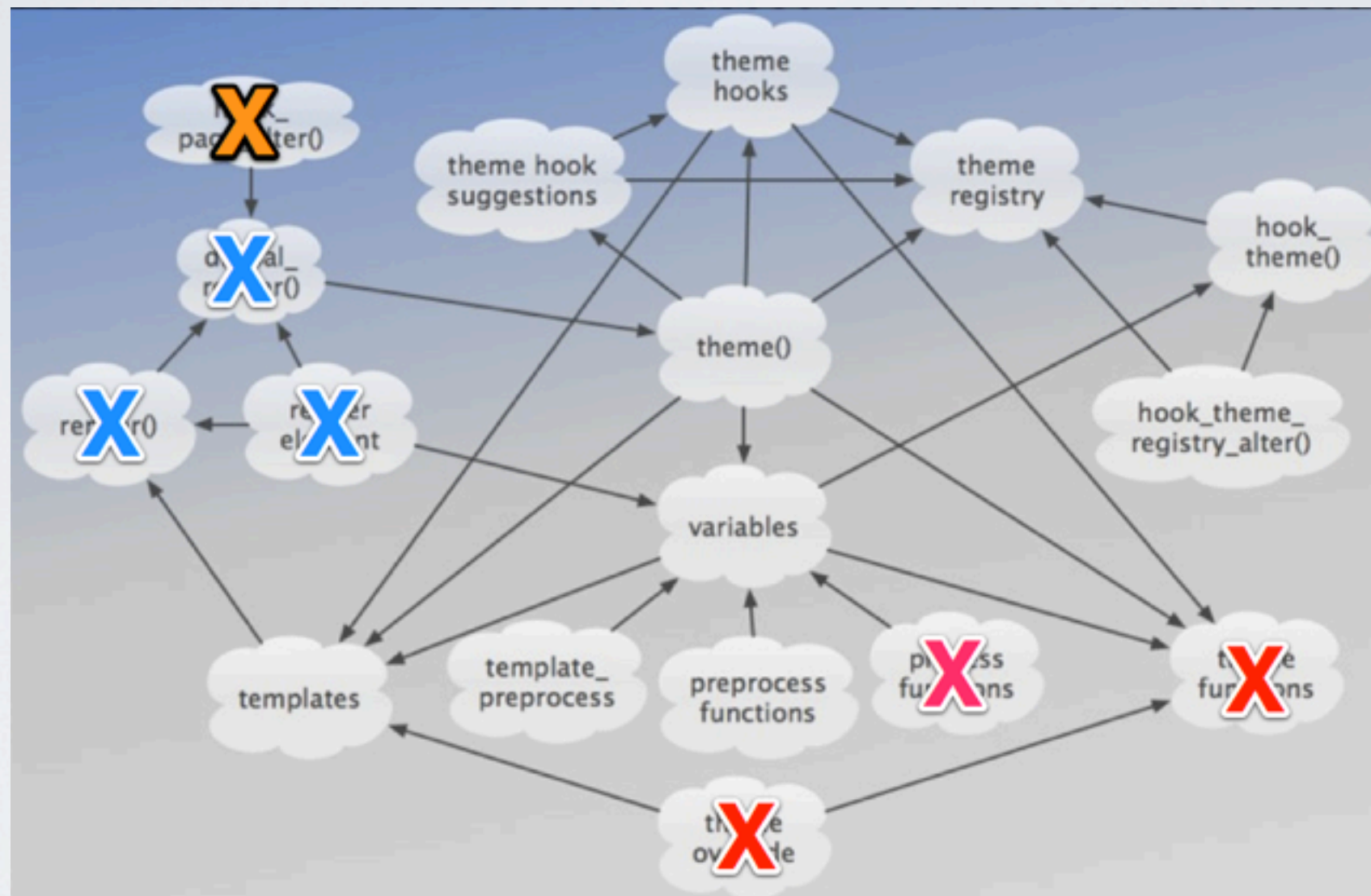
remove process.

D8 IMPROVEMENTS



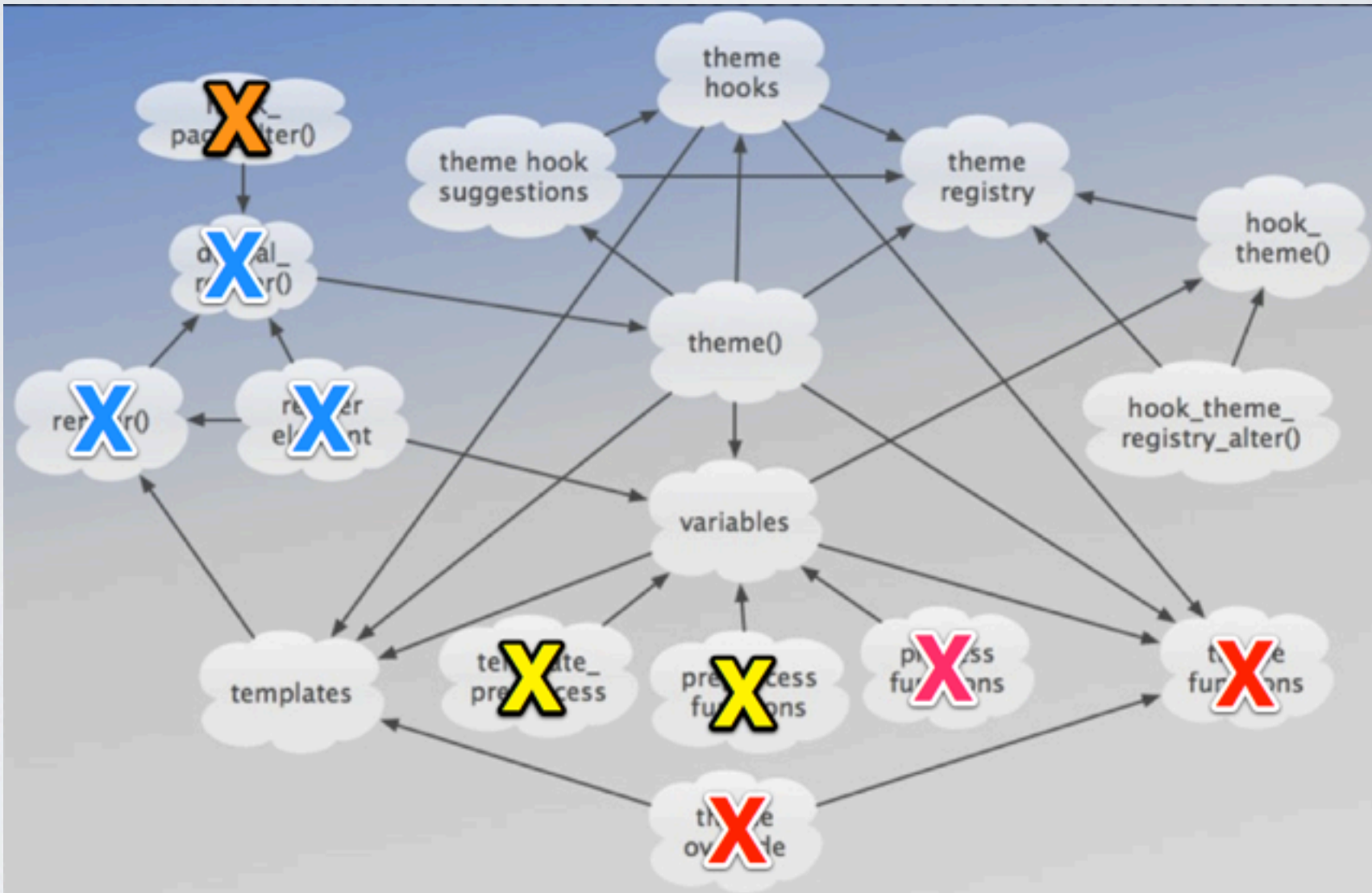
remove render.

D8 IMPROVEMENTS



remove page alter?

D9 IMPROVEMENTS



```
remove preprocess
```


TOP 7 PAIN POINTS IN D7

does Twig help?

1. Mixed data types **FIXED**
2. Different methods of printing variables **FIXED**
3. Two ways to override markup **FIXED**
4. Too many template files & theme functions **@todo**
5. Insecure **FIXED** (mostly)
6. Drupal-specific **FIXED**
7. A complex mix of subsystems

**We could remove all theme functions (?),
render, process (?) & preprocess (?) too.**

TOP 7 PAIN POINTS IN D7

does Twig help?

1. Mixed data types **FIXED**
2. Different methods of printing variables **FIXED**
3. Two ways to override markup **@todo**
4. Too many template files & theme functions **@todo**
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TOP 7 PAIN POINTS IN D7

does Twig help?

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6. Drupal-specific **FIXED**
7. A complex mix of subsystems **@todo**

D7 PAIN POINTS

does Twig help?

D7 PAIN POINTS

does Twig help?

YES!

TWIG: OTHER WINS



TWIG: OTHER WINS

In-browser template editing finally safe.



TWIG: OTHER WINS

In-browser template editing finally safe.

- Saving PHP code in the database is a HUGE no-no.
- Twig is not PHP, and is safe to store!

TWIG: OTHER WINS

In-browser template editing finally safe.

- Saving PHP code in the database is a HUGE no-no.
- Twig is not PHP, and is safe to store!

Modules like 'Contemplate' (Content templates) will finally be safe to use.

TWIG: OTHER WINS

In-browser template editing finally safe.

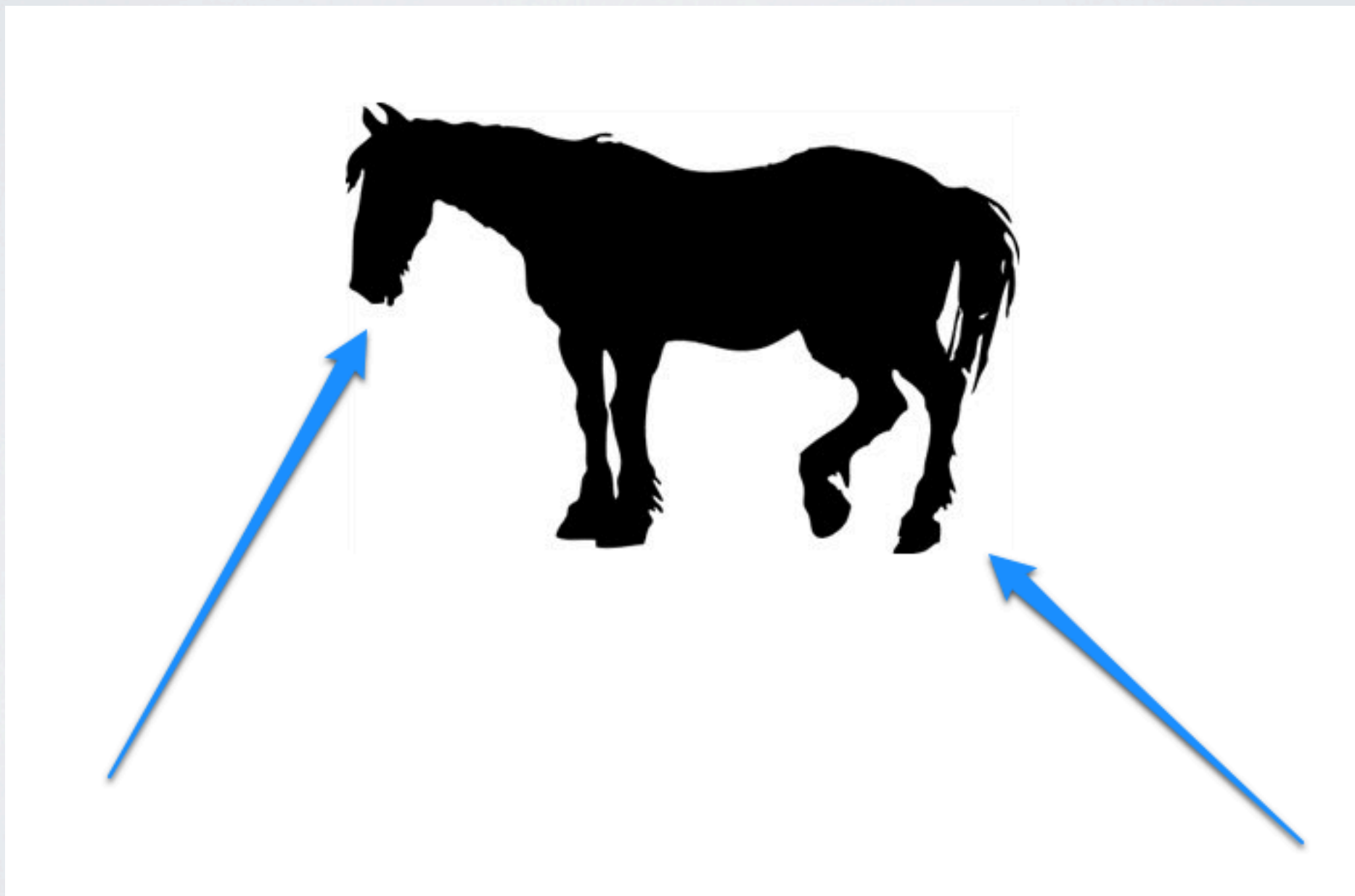
- Saving PHP code in the database is a HUGE no-no.
- Twig is not PHP, and is safe to store!

Modules like 'Contemplate' (Content templates) will finally be safe to use.

In-browser template editing is something WordPress users have been asking of Drupal for a very long time.

TWIG: OTHER WINS

Twig template files can be used on the front end, too.



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One template can return markup for both your PHP-generated pages, as well as pages generated vi JS in AJAX callbacks.

TWIG: OTHER WINS

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One template can return markup for both your PHP-generated pages, as well as pages generated vi JS in AJAX callbacks.

We can use other open source libraries like TwigJS.
(<https://github.com/schmittjoh/twig.js>)

TWIG: OTHER WINS

2-way communication between UI and code.



TWIG: OTHER WINS

2-way communication between UI and code.

No broken UIs.

TWIG: OTHER WINS

2-way communication between UI and code.

No broken UIs.

Template files can be created first, and the Drupal site can build itself* based on the presence and location of variables in the templates.

*within reason

CUSTOMIZE YOUR TWIG

CUSTOMIZE YOUR TWIG

settings: debugging

```
286 /**-
287  * Twig debugging:-
288  *-
289  * When debugging is enabled:-
290  * - The markup of each Twig template is surrounded by HTML comments that-
291  *   contain theming information, such as template file name suggestions.-
292  * - The dump() function can be used in Twig templates to output information-
293  *   about template variables.-
294  * - Twig templates are automatically recompiled whenever the source code-
295  *   changes (see twig_auto_reload below).-
296  *-
297  * For more information about debugging Twig templates, see-
298  * http://drupal.org/node/1906392.-
299  *-
300  * Not recommended in production environments (Default: FALSE).-
301  */-
302 $settings['twig_debug'] = TRUE;-
```


CUSTOMIZE YOUR TWIG

settings:

auto-refresh / caching

```
303
304 /**
305  * Twig auto-reload:
306  *
307  * Automatically recompile Twig templates whenever the source code changes. If
308  * you don't provide a value for twig_auto_reload, it will be determined based
309  * on the value of twig_debug.
310  *
311  * Not recommended in production environments (Default: NULL).
312  */
313 $settings['twig_auto_reload'] = TRUE;
314
315 /**
316  * Twig cache:
317  *
318  * By default, Twig templates will be compiled and stored in the filesystem to
319  * increase performance. Disabling the Twig cache will recompile the templates
320  * from source each time they are used. In most cases the twig_auto_reload
321  * setting above should be enabled rather than disabling the Twig cache.
322  *
323  * Not recommended in production environments (Default: TRUE).
324  */
325 # $settings['twig_cache'] = FALSE;
```

CUSTOMIZE YOUR TWIG

extensions filters & functions

```
13  -  
14  /**  
15   * A class for providing Twig extensions (specific Twig_NodeVisitors, filters and functions).  
16   *  
17   * @see \Drupal\Core\CoreBundle  
18   */  
19  class TwigExtension extends \Twig_Extension {  
20      public function getFunctions() {  
21          return array(  
22              'url' => new \Twig_Function_Function('url'),  
23          );  
24      }  
25  -  
26      public function getFilters() {  
27          return array(  
28              't' => new \Twig_Filter_Function('t'),  
29          );  
30      }  
31  -
```


MAJOR API CHANGES



MAJOR API CHANGES

Everything needs to be renderable

always use lazy-creation of render-array thingies.

For example, in preprocess...
instead of theme()
use array('#theme' => ...

***much TBD w/ Refactor of Render API**

MAJOR API CHANGES

Markup Utility Functions

Generate markup that does not need to be over-ridable

Examples:

l()
html_tag()
image()

***much TBD**

UPGRADES?

There's a module for that.
ALREADY.

Twigifier!

stay tuned for more info
follow @forestmars or @elephantventure

TWIG:THE LONG ROAD

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drupal.org/node/1757550

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drupal.org/node/1757550

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- converted EVERYTHING in core to Twig
- moved each module conversion to core queue

drupal.org/node/1757550

TWIG:THE LONG ROAD

Lower priority conversions are those converting only theme_ functions:

- aggregator module theme_ functions: #1987390: aggregator.module - Convert theme_ functions to Twig
- ckeditor module: #1963474: ckeditor.module - Convert theme_ functions to Twig Assigned to: widukind
- color module: #1898052: color.module - Convert theme_ functions to Twig Assigned to: taslett
- comment module theme_ functions: #1987396: comment.module - Convert theme_ functions to Twig
- common_test module: #1898456: common_test.module - Convert theme_ functions to Twig Assigned to: joelpittet
- custom_block module: #1898038: custom_block.module - Convert theme_ functions to Twig Assigned to: widukind
- datetime module: #1963476: datetime.module - Convert theme_ functions to Twig
- dblog module: #1898060: Remove all (useless) theme functions from dblog module, so we don't have to convert to Twig
- field module theme_ functions: #1987398: field.module - Convert theme_ functions to Twig
- field_ui module: #1898068: field_ui.module - Convert theme_ functions to Twig
- file module: #1898070: file.module - Convert theme_ functions to Twig
- filter module: #1898416: filter.module - Convert theme_ functions to Twig
- forum module theme_ functions: #1987400: forum.module - Convert theme_ functions to Twig
- image module: #1898420: image.module - Convert theme_ functions to Twig
- language module: #1898422: language.module - Convert theme_ functions to Twig
- link module: #1898426: link.module - Convert theme_ functions to Twig
- locale module: #1898428: locale.module - Convert theme_ functions to Twig
- menu module: #1898430: menu.module - Convert theme_ functions to Twig
- node module theme_ functions: #1987406: node.module - Convert theme_ functions to Twig
- options module: #1898434: Remove theme_options_none, use an alter hook instead for changing empty option label
- overlay module theme_ functions: #1987408: overlay.module - Convert theme_ functions to Twig
- picture module: #1898442: picture.module - Convert theme_ functions to Twig
- rdf module: #1898444: rdf.module - Convert theme_ functions to Twig
- search module: #1898448: search.module - Convert PHP Template templates to Twig
- shortcut module: #1898450: shortcut.module - Convert theme_ functions to Twig
- simpletest module: #1898452: simpletest.module - Convert theme_ functions to Twig
- system module theme_ functions: #1987410: system.module - Convert theme_ functions to Twig
- theme_test module theme_ functions: #1987414: theme_test.module - Convert theme_ functions to Twig Assigned to: widukind
- toolbar module: #1898464: toolbar.module - Convert theme_ functions to Twig
- update module: #1898466: update.module - Convert theme_ functions to Twig
- user module theme_ functions: #1987418: user.module - Convert theme_ functions to Twig
- [meta] views module: #1843738: [meta] Convert views module to Twig
- [meta] views_ui module: #1898472: [meta] Convert views_ui module to Twig
- [meta] core themes: #1938864: [meta] Update all core themes to use Twig
 - seven theme: #1987424: seven.theme - Convert theme_ functions to Twig
- form.inc: #1898480: form.inc - Convert theme_ functions to Twig
- menu.inc: #1898478: menu.inc - Convert theme_ functions to Twig
- pager.inc: #1898474: pager.inc - Convert theme_ functions to Twig
- theme.maintenance.inc: #1885564: theme.maintenance.inc - Convert theme_ functions to Twig
- [meta] theme.inc: #1885560: [meta] Convert everything in theme.inc to Twig

drupal.org/node/1757550

TWIG:THE LONG ROAD

- started in a sandbox (actually 2)
- converted EVERYTHING in core to Twig
- moved each module conversion to core queue

drupal.org/node/1987510

TWIG:THE LONG ROAD

- started in a sandbox (actually 2)
- converted EVERYTHING in core to Twig
- moved each module conversion to core queue
- started consolidation of similar functions

drupal.org/node/1987510

TWIG:THE LONG ROAD

- started in a sandbox (actually 2)
- converted EVERYTHING in core to Twig
- moved each module conversion to core queue
- started consolidation of similar functions
- started removal of duplicate and/or stupid functions

drupal.org/node/1987510

TWIG:THE LONG ROAD

- started in a sandbox (actually 2)
- converted EVERYTHING in core to Twig
- moved each module conversion to core queue
- started consolidation of similar functions
- started removal of duplicate and/or stupid functions
- ZOMG!!! split template conversions from theme fns

drupal.org/node/1987510

TWIG: THE LONG ROAD

Finished tasks

These issues have converted all tpl.php files within their scope to html.twig, are well documented, been manually tested for HTML inconsistencies, are performant with proof and have been verified by a core maintainer.

- theme_test module templates: #1898458: [READY] theme_test.module - Convert PHPTemplate templates to Twig - Assigned to: widukind
- html.tpl.php: #1961872: [READY] Convert html.tpl.php to Twig
- page.tpl.php: #1961870: [READY] Convert page.tpl.php to Twig
- maintenance-page.tpl.php: #1987426: [READY] Convert maintenance-page.tpl.php to Twig
- overlay module templates: #1898436: [READY] overlay.module - Convert PHPTemplate templates to Twig
- taxonomy module templates: #1898460: [READY] taxonomy.module - Convert PHPTemplate templates to Twig
- seven theme templates: #1938848: [READY] seven.theme - Convert PHPTemplate templates to Twig
- book module templates: #1898050: [READY] book.module - Convert PHPTemplate templates to Twig
- user module templates: #1898458: [READY] user.module - Convert PHPTemplate templates to Twig
- aggregator module templates: #1896060: [READY] aggregator.module - Convert PHPTemplate templates to Twig
- views ui module: #1898472: [meta] Convert views_ui module to Twig
 - #1843772: [READY] Convert views/views_ui/templates/views-ui-display-tab-bucket.tpl.php to Twig
 - #1843774: [READY] Convert views/views_ui/templates/views-ui-display-tab-setting.tpl.php to Twig
- views module: #1843738: [meta] Convert views module to Twig
 - #1843758: [READY] Convert views/templates/views-view-row-rss.tpl.php to twig
 - #1843760: [READY] Convert views/templates/views-view-rss.tpl.php to twig
 - #1843740: [READY] Convert views/templates/views-exposed-form.tpl.php to twig
 - #1843766: [READY] Convert views/templates/views-view-table.tpl.php to twig
 - #1843770: [READY] Convert views/templates/views-view-unformatted.tpl.php to twig
 - #1843754: [READY] Convert views/templates/views-view-list.tpl.php to twig
 - #1843750: [READY] Convert views/templates/views-view-grid.tpl.php to twig
 - #1843762: [READY] Convert views/templates/views-view-summary.tpl.php to twig
 - #1843742: [READY] Convert views/templates/views-more.tpl.php to twig
 - #1843752: [READY] Convert views/templates/views-view-grouping.tpl.php to twig

Finished tasks (unverified) a.k.a. the Alex Pott section

These issues have converted all tpl.php files within their scope to html.twig, are well documented, been manually tested for HTML inconsistencies, are performant with proof but have not yet been verified by a core maintainer.

- layout module templates: #1898424: [READY] layout.module - Convert PHPTemplate templates to Twig
- views module: #1843738: [meta] Convert views module to Twig
- #1898474: pager.inc - Convert theme_functions to Twig

For Fabianx

- comment module templates: #1898054: comment.module - Convert PHPTemplate templates to Twig
- forum module templates: #1898418: forum.module - Convert PHPTemplate templates to Twig
- field module templates: #1898062: field.module - Convert PHPTemplate templates to Twig - Assigned to: rcaracaus
- #1843748: Convert views/templates/views-view-fields.tpl.php to twig

Remaining tasks

- block module templates: #1898034: block.module - Convert PHPTemplate templates to Twig
- node module templates: #1898432: node.module - Convert PHPTemplate templates to Twig
- system module templates: #1898454: system.module - Convert PHPTemplate templates to Twig
- bartik theme: #1938840: bartik.theme - Convert PHPTemplate templates to Twig - Assigned to: jerdavis
- views module: #1843738: [meta] Convert views module to Twig
 - #1843744: Convert views/templates/views-view.tpl.php to twig - Assigned to: bradwade
 - #1843764: Convert views/templates/views-view-summary-unformatted.tpl.php to twig
 - #1843746: Convert views/templates/views-view-field.tpl.php to Twig

#1806478: Make twig the default engine once all modules templates are converted from .tpl.php to .html.twig

drupal.org/node/1987510

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- ZOMG!!! split template conversions from theme fns
- created NEW patches for tpl.php to twig conversions

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- created NEW patches for tpl.php to twig conversions
- benchmarked every new patch (to get it approved)

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- ZOMG!!! split template conversions from theme fns
- created NEW patches for tpl.php to twig conversions
- benchmarked every new patch (to get it approved)
- roll all those patches together into a MEGAPATCH

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- **GET IT IN CORE!!!!!!!!!!!!!!!!!!!!!!**

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oh, and also

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- started removal of duplicate and/or stupid functions
- ZOMG!!! split template conversions from theme fns
- created NEW patches for tpl.php to twig conversions
- benchmarked every new patch (to get it approved)
- roll all those patches together into a MEGAPATCH
- **GET IT IN CORE!!!!!!!!!!!!!!!!!!!!!!**
 - oh, and also
- re-factor Render API & create Markup Utility Functions

THE TWIG TEAM

- people who committed code to either sandbox
- people who posted patches to our issues
- people who reviewed markup from patches
- people who benchmarked patches
- now new people listed in maintainers.txt!

THE TWIG TEAM

Issue #1896060 by shanethehat, Cottser, joelpittet, disasm, FloydM, stevector, jenlampton, c4rl, mr.baileys: [READY] aggregator.module - Convert PHPTemplate templates to Twig.
Issue #1898034 by Cottser, jenlampton, joelpittet, Shawn DeArmond, idflood, Hydra, chrisjlee, gnuget, c4rl, thund3rbox, steinmb, TrevorBradley, geoffreyr: Block.module - Convert PHPTemplate templates to Twig.
Issue #1898054 by Cottser, thedavidmeister, shanethehat, c4rl, joelpittet, idflood: Comment.module - Convert PHPTemplate templates to Twig.
Issue #1898418 by Cottser, shanethehat, c4rl, joelpittet, disasm, FloydM, jenlampton: Forum.module - Convert PHPTemplate templates to Twig.
Issue #1898424 by joelpittet, ezeedub, mr.baileys, duellj, Cottser | c4rl: [READY] layout.module - Convert PHPTemplate templates to Twig.
Issue #1898432 by Cottser, shanethehat, jenlampton, c4rl, steveoliver, chrisjlee, Hydra: Node.module - Convert PHPTemplate templates to Twig.
Issue #1898454 by c4rl, jerdavis, gnuget, Hydra, mr.baileys, Sean Charles, joelpittet: System.module - Convert PHPTemplate templates to Twig.
Issue #1898460 by Cottser, ezeedub, johnnygamba, jenlampton, steveoliver, jastraat, myke, lbainbridge, joelpittet | c4rl: [READY] taxonomy.module - Convert PHPTemplate templates to Twig.
Issue #1898458 by widukind | c4rl: [READY] theme_test().module - Convert PHPTemplate templates to Twig.
Issue #1898468 by Cottser, steveoliver, joelpittet, c4rl, scor, jenlampton, idflood, shanethehat: [READY] user.module - Convert PHPTemplate templates to Twig.
Issue #1898436 by chrisjlee, joelpittet, gnuget, Cottser | c4rl: [READY] overlay.module - Convert PHPTemplate templates to Twig.
Issue #1938840 by chrisjlee, duellj, Cottser, shanethehat, idflood | jenlampton: Bartik.theme - Convert PHPTemplate templates to Twig.
Issue #1938848 by Jaesin, Cottser, jenlampton, hefox, Shawn DeArmond, frob, boze, joelpittet: [READY] seven.theme - Convert PHPTemplate templates to Twig.
Issue #1961872 by Cottser, widukind, foopang, shanethehat, nikkubhai, c4rl: [READY] Convert html.tpl.php to Twig.
Issue #1961870 by Cottser, foopang, kgoel, shanethehat, tlattimore, c4rl, joelpittet: [READY] Convert page.tpl.php to Twig.
Issue #1961868 by 2ndmile, foopang, Cottser: [READY] Convert region.tpl.php to Twig.
Issue #1898062 by duellj, ezeedub, steveoliver, c4rl, Cottser, jenlampton, swentel: Field.module - Convert PHPTemplate templates to Twig.
Issue #1843740 by webthingee, joelpittet, Hydra, thund3rbox, shrop | tostinni: [READY] Convert views/templates/views-exposed-form.tpl.php to twig.
Issue #1843742 by chrisjlee, mr.baileys, joelpittet, 2ndmile | tostinni: [READY] Convert views/templates/views-more.tpl.php to twig.
Issue #1843744 by joelpittet, Sean Charles, kgoel, Hydra, tsi, chrisjlee, shanethehat, jenlampton, mr.baileys | tostinni: Convert views/templates/views-view.tpl.php to twig.
Issue #1843746 by joelpittet, trrroy, shanethehat, tlattimore, damiankloip, jastraat, dawehner, thedavidmeister, Cottser, Kevin Morse | tostinni: Convert views/templates/views-view-field.tpl.php to Twig.
Issue #1843750 by jastraat, geoffreyr, joelpittet, jpamental, FluxSauce, gollyg, shanethehat, mr.baileys | tostinni: [READY] Convert views/templates/views-view-grid.tpl.php to twig.
Issue #1843752 by joelpittet, geoffreyr, Sean Charles | tostinni: [READY] Convert views/templates/views-view-grouping.tpl.php to twig.
Issue #1843754 by mr.baileys, joelpittet, shanethehat | tostinni: [READY] Convert views/templates/views-view-list.tpl.php to twig.
Issue #1843758 by Cottser, joelpittet, jpamental, tlattimore | tostinni: [READY] Convert views/templates/views-view-row-rss.tpl.php to twig.
Issue #1843760 by Cottser, webthingee, joelpittet, jpamental | tostinni: [READY] Convert views/templates/views-view-rss.tpl.php to twig.
Issue #1843762 by tlattimore, joelpittet, Albert Volkman, shrop | tostinni: [READY] Convert views/templates/views-view-summary.tpl.php to twig.
Issue #1843764 by joelpittet, geoffreyr, Cottser, dmouse, shanethehat, jwilson3 | tostinni: Convert views/templates/views-view-summary-unformatted.tpl.php to twig.
Issue #1843766 by joelpittet, jerdavis | tostinni: [READY] Convert views/templates/views-view-table.tpl.php to twig.
Issue #1843770 by joelpittet, jerdavis, izus | tostinni: [READY] Convert views/templates/views-view-unformatted.tpl.php to twig.
Issue #1843772 by joelpittet, steveoliver, 2ndmile, Cottser | tostinni: [READY] Convert views/views_ui()/templates/views-ui-display-tab-bucket.tpl.php to Twig.
Issue #1843774 by Cottser, joelpittet, chrisjlee, steveoliver, shanethehat | tostinni: [READY] Convert views/views_ui()/templates/views-ui-display-tab-setting.tpl.php to Twig.
Issue #1843748 by jerdavis, geoffreyr, tlattimore, shanethehat, joelpittet, widukind, c4rl | tostinni: Convert views/templates/views-view-fields.tpl.php to twig.

HELP US GET THERE



we need your help!

<http://drupal.org/node/1757550>

IRC: #drupal-twig

HELP US GET THERE

Things we can still do for D8

- ★ Finish template conversions (+benchmarks)
- ★ Re-factor render API
- ★ Remove the process layer entirely
- ★ Convert theme functions to template files (or MUFs)
- ★ Clean up the preprocess layer
- ★ Clean up the HTML markup generated by core
- ★ Improve performance

we need your help!

<http://drupal.org/node/1757550>

IRC: #drupal-twig

Sprint: Friday



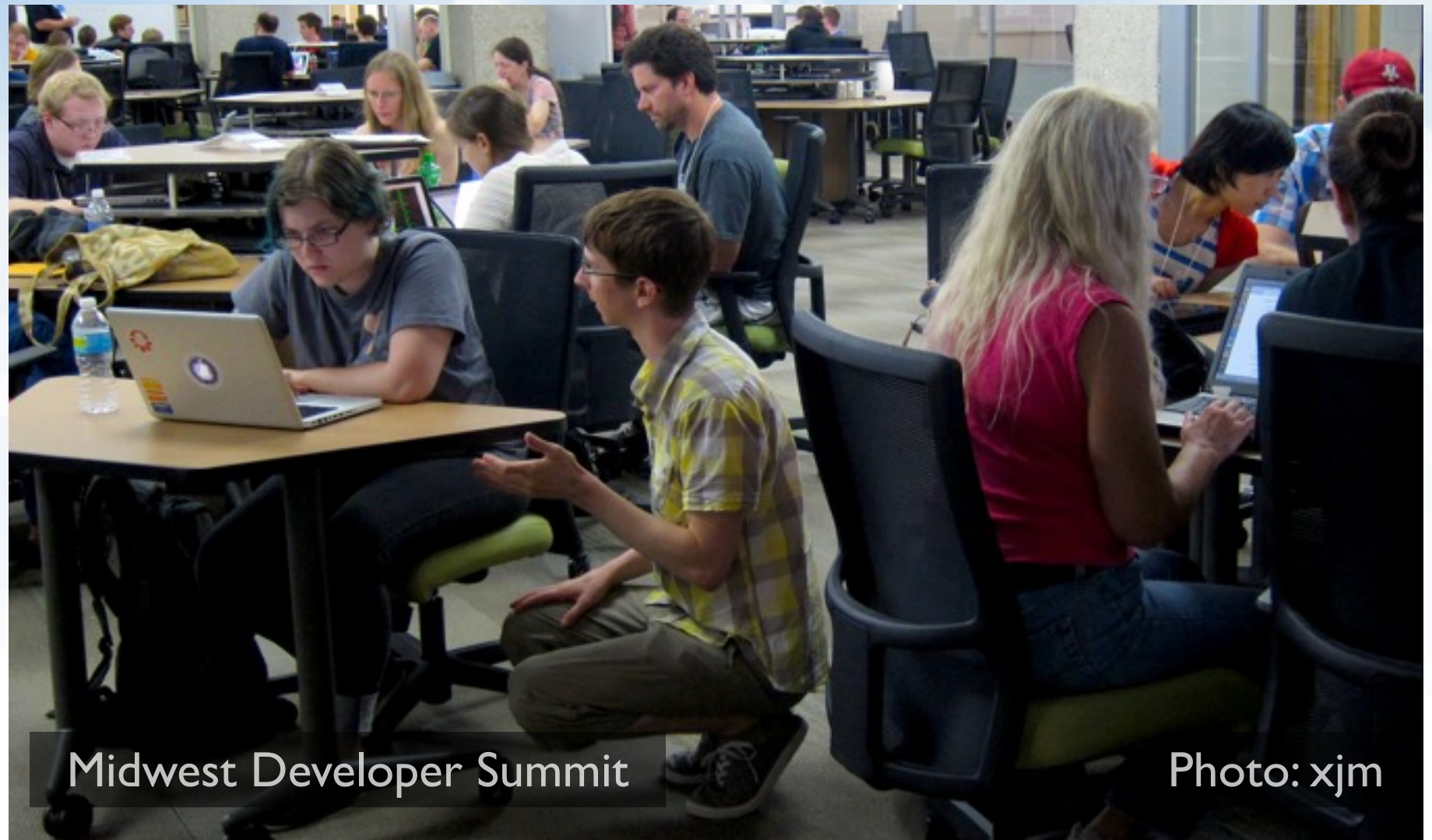
Sprint with the community on Friday.

We have tasks for every skill set.

Mentors are available for new contributors.

An optional Friday morning workshop will help you set up community tools.

Follow
@drupalmentoring

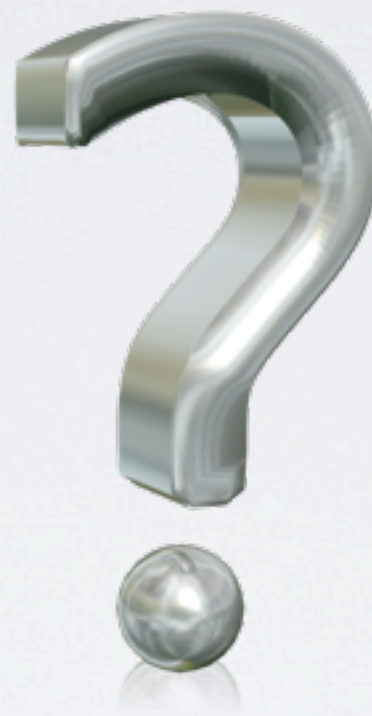


Midwest Developer Summit

Photo: xjm

<http://portland2013.drupal.org/program/sprints>

QUESTIONS?



we still need your help!

<http://drupal.org/node/1757550>

IRC: #drupal-twig



— DRUPALCON —

Portland

MAY 20-24 2013

What did you think?

Evaluate “Using Twig” at:
portland2013.drupal.org/schedule

Jen Lampton | @jenlampton | “jenlampton” on d.o

Fabian Franz | @fabianfranz | “Fabianx” on d.o

John Albin Wilkins | @johnalbin | “JohnAlbin” on d.o

photo credits:

twig docs screenshots

<http://twig.sensiolabs.org/documentation>

twig speed graphs

<http://phpcomparison.net>

python icon

<http://python-hosting.org>

ruby icon

<http://itmediaconnect.ro/en/web>

django logo

<http://py-arahat.blogspot.com/2010/08/django-vs-pylons.html>

symfony logo

<http://symfony.com/logo>

magnifying glass

<http://www.photoshopcstutorial.com/beginner-photoshop-tutorials/magnify-photo-zoom-effect.php>

pain points

<http://barnraisersllc.com/2012/06/what-5-social-media-pain-points-prove>

live demo

<http://bigdogsurveillance.com/live-demo>

mario win

http://www.theproducersperspective.com/my_weblog/2012/06/who-won-my-tony-pool-and-is-taking-home-an-ipad.html/youwin-3

inheritance

<http://www.accessexcellence.org/RC/AB/WYW/wkbooks/PAP/inheritance.php>

browsers

<http://www.atomicon.nl/disabling-cache-for-stylesheets/browsers>

horse

<http://divinerescue.org/images/backgrounds>

two way sign

<http://www.paulkonrardy.com/Blog/2WayCommunicationUsItOrLosIt.aspx>

finish line

<http://www.lifetime-weightloss.com/blog/2013/1/30/the-finishing-line-effect.html>