





# DRUPALCON LONDON

# Theme API

Rolf van de Krol

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Nederlandse Bond  
van Bemiddelings- en  
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INGRID LINGEMAN, UITZENDBUREAU 65PLUS

## NIEUWS

### \* Flexibeler doorwerken na AOW-leeftijd

geplaatst op 15-08-2011

Minister Henk Kamp (Sociale Zaken) werkt aan een wetsvoorstel voor een 'lichter arbeidsrechtelijk...

[Lees verder](#)



### \* ARTRA gekocht door Trecens

geplaatst op 08-08-2011

Trainingsbureau ARTRA, gespecialiseerd in het opleiden van personeel in de flexbranche, is...

[Lees verder](#)



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15-08-2011

## Eurekaweek: VVD woensdag en donderdag aanwezig



Deze week vindt de Eurekaweek plaats, dé introductieweek voor alle Rotterdamse studenten. Dit is natuurlijk uitgelezen kans om studenten bekend te maken met de VVD Rotterdam en nieuwe leden te werven. Op woensdag 17 augustus is de VVD Rotterdam aanwezig op de Eurekaweek informatiemarkt.

Op donderdag 18 augustus vindt de DoIdwaze Donderdag...

[LEES MEER](#) [POST NEW COMMENT](#)

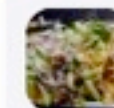
### REACTIES (1)

Het was supergezellig woensdag, een grote JOVD en VVD opkomst en er zijn nog een paar leuke gezamenlijke foto's vanaf gekomen! In een woord: Fantastisch!

Bradley van der Hoeven 18-08-2011



## VVD Rotterdam Blog



Kinderen met overgewicht verdienen goed voorbeeld  
[Deborah Middelman](#)



Mag het licht aan?  
[Jan-Willem Verhelj](#)

[BLOG ARCHIEF](#)

## Twitter VVD Rdam



VVDRotterdam @dmiddelma was gisteren te gast bij melkveehouderij van Dorp.



VVDRotterdam Blog Deborah Middelman: Kinderen met overgewicht verdienen goed voorbeeld - <http://t.co/NCfp7nz>

## Standpunten VVD Rotterdam

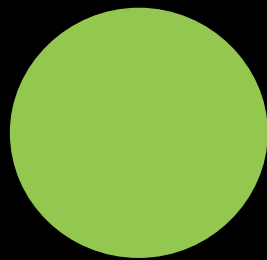
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```
$html = theme(  
  'links',  
  array(  
    'links' => $links,  
    'heading' => t('My link list')  
  )  
);
```





theme() function

```
$html = theme(  
  'links',  
  array(  
    'links' => $links,  
    'heading' => t('My link list')  
  )  
);
```



```
<h2>My link list</h2>
<ul class="links">
  <li class="0 first">
    <a href="/node/1">My content-item</a>
  </li>
  <li class="1">
    <a href="/node/123">Other content-item</a>
  </li>
  <li class="2 last">
    <a href="/admin/content">All content</a>
  </li>
</ul>
```



```
$html = theme(  
  'links',  
  array(  
    'links' => $links,  
    'heading' => t('My link list')  
  )  
);
```





theme hook

```
$html = theme(
  'links',
  array(
    'links' => $links,
    'heading' => t('My link list')
  )
);
```



```
$html = theme(  
  'links',  
  array(  
    'links' => $links,  
    'heading' => t('My link list')  
  )  
);
```

variables



```
$html = theme(  
  'links',  
  array(  
    'links' => $links,  
    'heading' => t('My link list')  
  )  
);
```





# Theme registry





```
'links' => array(  
  'variables' => array(  
    'links' => NULL,  
    'attributes' => array(  
      'class' => array('links'),  
    ),  
    'heading' => array(),  
  ),  
  'type' => 'module',  
  'theme path' => 'modules/system',  
  'function' => 'theme_links',  
)
```





default variables

```
'links' => array(  
  'variables' => array(  
    'links' => NULL,  
    'attributes' => array(  
      'class' => array('links'),  
    ),  
    'heading' => array(),  
  ),  
  'type' => 'module',  
  'theme path' => 'modules/system',  
  'function' => 'theme_links',  
)
```



```
$variables = array(  
    'links' => $links,  
    'heading' => t('My link list')  
);
```



```
$variables = array(  
    'links' => $links,  
    'heading' => t('My link list')  
);
```

---

```
$variables += $info['variables'];
```



```
$variables = array(  
    'links' => $links,  
    'heading' => t('My link list')  
);
```

.....

```
$variables += $info['variables'];
```

---

```
$variables = array(  
    'links' => $links,  
    'heading' => t('My link list'),  
    'attributes' => array(  
        'class' => array('links'),  
    )  
);
```



```
'links' => array(  
  'variables' => array(  
    'links' => NULL,  
    'attributes' => array(  
      'class' => array('links'),  
    ),  
    'heading' => array(),  
  ),  
  'type' => 'module',  
  'theme path' => 'modules/system',  
  'function' => 'theme_links',  
)
```

theme function



```
'links' => array(  
  'variables' => array(  
    'links' => NULL,  
    'attributes' => array(  
      'class' => array('links'),  
    ),  
    'heading' => array(),  
  ),  
  'type' => 'module',  
  'theme path' => 'modules/system',  
  'function' => 'theme_links',  
)
```

origin information





```
'node' => array(
  'template' => 'node',
  'path' => 'themes/bartik/templates',
  'type' => 'theme_engine',
  'theme path' => 'themes/bartik',
  'render element' => 'elements',
  'preprocess functions' => array(
    'template_preprocess',
    'template_preprocess_node',
    'contextual_preprocess',
    'ctools_preprocess_node',
    'rdf_preprocess_node',
    'views_preprocess_node',
    'bartik_preprocess_node',
  ),
  'process functions' => array(
    'template_process',
    'rdf_process',
  ),
)
```



```
'node' => array(  
  'template' => 'node',  
  'path' => 'themes/bartik/templates',  
  'type' => 'theme_engine',  
  'theme path' => 'themes/bartik',  
  'render element' => 'elements',  
  'preprocess functions' => array(  
    'template_preprocess',  
    'template_preprocess_node',  
    'contextual_preprocess',  
    'ctools_preprocess_node',  
    'rdf_preprocess_node',  
    'views_preprocess_node',  
    'bartik_preprocess_node',  
  ),  
  'process functions' => array(  
    'template_process',  
    'rdf_process',  
  ),  
)
```

render element name



```
$build = array(  
  '#theme' => 'node',  
  '#node' => $node,  
  '#view_mode' => 'teaser',  
  '#language' => 'en',  
  ...  
);
```



```
$build = array(  
  '#theme' => 'node',  
  '#node' => $node,  
  '#view_mode' => 'teaser',  
  '#language' => 'en',  
  ...  
);
```

```
.....  
$html = drupal_render($build);
```



```
$build = array(  
  '#theme' => 'node',  
  '#node' => $node,  
  '#view_mode' => 'teaser',  
  '#language' => 'en',  
  ...  
);
```

```
.....  
$html = drupal_render($build);  
.....
```

```
$html = theme('node', $build);
```



```
$build = array(  
  '#theme' => 'node',  
  '#node' => $node,  
  '#view_mode' => 'teaser',  
  '#language' => 'en',  
  ...  
);
```

```
.....  
$html = drupal_render($build);  
.....
```

```
$html = theme('node', $build);
```





```
$build = array(  
  '#theme' => 'node',  
  '#node' => $node,  
  '#view_mode' => 'teaser',  
  '#language' => 'en',  
  ...  
);
```

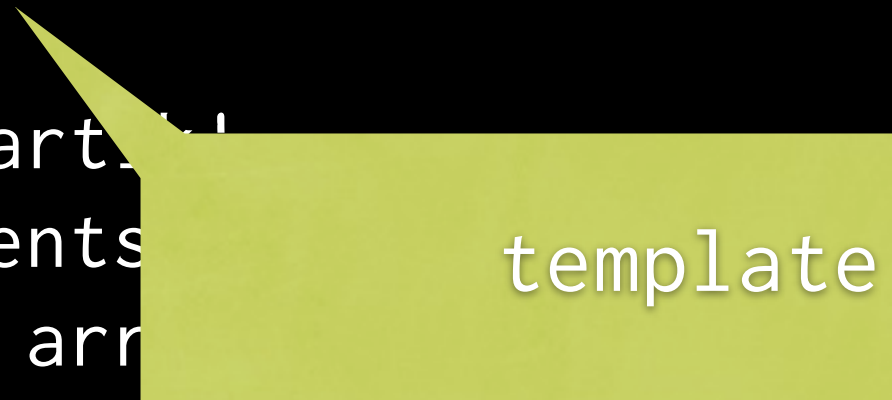
```
.....  
$html = drupal_render($build);  
.....
```

```
$html = theme('node', $build);
```


```
-----  
$variables = array(  
  'elements' => $build  
);
```



```
'node' => array(  
  'template' => 'node',  
  'path' => 'themes/bartik/templates',  
  'type' => 'theme_engine',  
  'theme path' => 'themes/bartik',  
  'render element' => 'elements',  
  'preprocess functions' => array(  
    'template_preprocess',  
    'template_preprocess_node',  
    'contextual_preprocess',  
    'ctools_preprocess_node',  
    'rdf_preprocess_node',  
    'views_preprocess_node',  
    'bartik_preprocess_node',  
  ),  
  'process functions' => array(  
    'template_process',  
    'rdf_process',  
  ),  
)
```



template



```
function mytheme_more_link($variables) {  
    return '<div class="more-link">' .  
        l(t('More'), $variables['url'],  
          array(  
              'attributes' => array(  
                  'title' => $variables['title']  
              )  
          )  
        ) . '</div>';  
}
```

---

mytheme/more-link.tpl.php

```
<div class="more-link">  
    <?php  
        print l(t('More'), $url,  
              array(  
                  'attributes' => array('title' => $title)  
              )  
            );  
    ?>  
</div>
```



```
'node' => array(  
  'template' => 'node',  
  'path' => 'themes/bartik/templ  
  'type' => 'theme_engine',  
  'theme path' => 'themes/barti  
  'render element' => 'elements',  
  'preprocess functions' => array(  
    'template_preprocess',  
    'template_preprocess_node',  
    'contextual_preprocess',  
    'ctools_preprocess_node',  
    'rdf_preprocess_node',  
    'views_preprocess_node',  
    'bartik_preprocess_node',  
  ),  
  'process functions' => array(  
    'template_process',  
    'rdf_process',  
  ),  
)
```

preprocess functions

process functions



```
theme('node', $build);
```

---

```
$variables = array(  
  'elements' => $build  
);
```



```
function template_preprocess_node(&$variables) {  
    $variables['view_mode'] =  
        $variables['elements']['#view_mode'];  
    ...  
    $variables['node'] =  
        $variables['elements']['#node'];  
    $node = $variables['node'];  
  
    $variables['date'] =  
        format_date($node->created);  
    ...  
    $variables['title'] =  
        check_plain($node->title);  
    ...  
}
```





```
function template_preprocess_node(&$variables) {  
    $variables['view_mode'] =  
        $variables['elements']['#view_mode'];  
    ...  
    $variables['node'] =  
        $variables['elements']['#node'];  
    $node = $variables['node'];  
  
    $variables['date'] =  
        format_date($node->created);  
    ...  
    $variables['title'] =  
        check_plain($node->title);  
    ...  
}
```



```
$variables = array(  
  'elements' => $build,  
  'view_mode' => 'teaser',  
  'node' => $node,  
  'date' => '08/23/2011',  
  'title' => 'Lorem Ipsum'  
);
```



```
$variables = array(  
  'elements' => $build,  
  'view_mode' => 'teaser',  
  'node' => $node,  
  'date' => '08/23/2011',  
  'title' => 'Lorem Ipsum' => $title  
);
```



\$variables



preprocess



process



template\_preprocess  
template\_preprocess\_node  
contextual\_preprocess  
ctools\_preprocess\_node  
rdf\_preprocess\_node  
views\_preprocess\_node  
bartik\_preprocess\_node





template\_preprocess  
template\_preprocess\_node

contextual\_preprocess  
ctools\_preprocess\_node  
rdf\_preprocess\_node  
views\_preprocess\_node

bartik\_preprocess\_node



template\_preprocess  
template\_preprocess\_node

contextual\_preprocess  
ctools\_preprocess\_node  
rdf\_preprocess\_node  
views\_preprocess\_node

bartik\_preprocess\_node



The diagram consists of two horizontal yellow rectangular boxes. The top box is labeled 'modules' and has a yellow arrow pointing to it from the left, which originates from the list of preprocess functions. The bottom box is labeled 'themes' and has a yellow arrow pointing to it from the left, which originates from the 'bartik\_preprocess\_node' entry.

modules

themes



template\_preprocess  
template\_preprocess\_node

contextual\_preprocess  
contextual\_preprocess\_node  
ctools\_preprocess\_node  
rdf\_preprocess\_node  
views\_preprocess\_node

bartik\_preprocess  
bartik\_preprocess\_node



```
'node' => array(  
  'template' => 'node',  
  'path' => 'themes/bartik/templates',  
  'type' => 'theme_engine',  
  'theme path' => 'themes/bartik',  
  'render element' => 'elements',  
  'preprocess functions' => array(  
    'template_preprocess',  
    'template_preprocess_node',  
    'contextual_preprocess',  
    'ctools_preprocess_node',  
    'rdf_preprocess_node',  
    'views_preprocess_node',  
    'bartik_preprocess_node',  
  ),  
  'process functions' => array(  
    'template_process',  
    'rdf_process',  
  ),  
)
```

origin information



theme



base theme(s)



modules









# PHPTemplate







PHPTemplate

Inspects theme





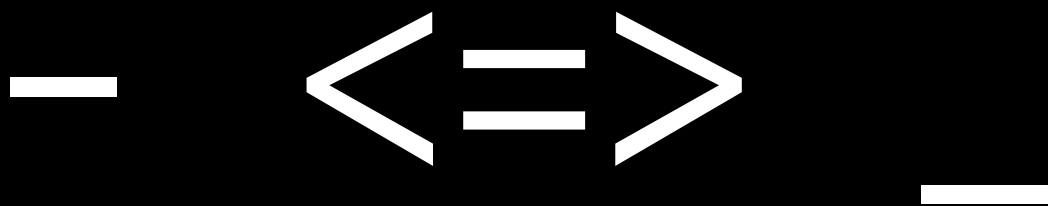
Inspects theme

# Find templates and functions



node--page.tpl.php  
views-view-fields--backlinks--page.tpl.php  
page--front.tpl.php





# pattern



pattern



node\_\_



pattern

---

node\_\_

---

page.tpl.php  
node.tpl.php  
node--page.tpl.php

---



pattern

---

node\_\_

---

page.tpl.php

node.tpl.php

node--page.tpl.php

---

node\_\_page





# pattern

---

```
'node__page' => array(  
  'template' => 'node--page',  
  'path' => 'sites/all/themes/mytheme',  
  'render element' => 'elements',  
  'base hook' => 'node',  
)
```



# pattern



pattern



links\_\_



pattern

---

links\_\_

---

mytheme\_links\_\_comments()



pattern

---

links\_\_

---

mytheme\_links\_\_comments()



---

links\_\_comments



# pattern

---

```
'links__comments' => array(  
  'function' => 'mytheme_links__comments',  
  'variables' => array(  
    'links' => NULL,  
    'attributes' => array(  
      'class' => array('links'),  
    ),  
    'heading' => array(),  
  ),  
  'base hook' => 'links',  
)
```



# context

---

```
theme('links__comments',  
      array(  
        'links' => $links  
      )  
);
```

```
links__comments  
links
```



# context

---

```
theme('links__comments',  
      array(  
        'links' => $links  
      )  
);
```

---

```
links__comments  
links
```





# context

---

```
theme(  
  array(  
    'views_view__backlinks__page',  
    'views_view__backlinks',  
    'views_view'  
  ),  
  array(  
    'view' => $view  
  )  
);
```



# themed item

---

```
$build = array(  
  '#theme' => 'node',  
  '#node' => $node,  
  '#view_mode' => 'teaser',  
  '#language' => 'en',  
  ...  
);
```

```
.....  
theme('node', $build);  
.....
```

```
$variables = array(  
  'elements' => $build  
);
```



# themed item

---

```
function template_preprocess_node(&$variables) {  
  ...  
  $variables['node'] =  
    $variables['elements']['#node'];  
  $node = $variables['node'];  
  ...  
  $variables['theme_hook_suggestions'][] =  
    'node__' . $node->type;  
  ...  
}
```



# themed item

---

```
function template_preprocess_node(&$variables) {  
  ...  
  $variables['node'] =  
    $variables['elements']['#node'];  
  $node = $variables['node'];  
  ...  
  $variables['theme_hook_suggestions'][] =  
    'node__' . $node->type;  
  ...  
}
```

---

```
$variables = array(  
  'theme_hook_suggestions' => array(  
    'node__page'  
  )  
);
```



# context

---

```
theme(  
  array(  
    'views_view__backlinks__page',  
    'views_view__backlinks',  
    'views_view'  
  ),  
  array(  
    'view' => $view  
  )  
);
```



## themed item

---

```
function template_preprocess_node(&$variables) {  
    $variables['view_mode'] =  
        $variables['elements']['#view_mode'];  
    ...  
    $variables['node'] =  
        $variables['elements']['#node'];  
    ...  
}
```

---

```
function mytheme_preprocess_node(&$variables) {  
    $view_mode = $variables['view_mode'];  
    $node = $variables['node'];  
  
    $variables['theme_hook_suggestions'][] =  
        'node__' . $node->type . '__' . $view_mode;  
    $variables['theme_hook_suggestions'][] =  
        'node__' . $view_mode;  
}
```



## themed item

---

```
function mytheme_preprocess_node(&$variables) {  
  $view_mode = $variables['view_mode'];  
  $node = $variables['node'];  
  
  $variables['theme_hook_suggestions'][] =  
    'node__' . $node->type . '__' . $view_mode;  
  $variables['theme_hook_suggestions'][] =  
    'node__' . $view_mode;  
}
```

---

```
node--page--teaser.tpl.php  
node--full.tpl.php
```



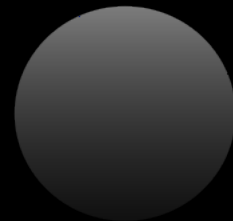
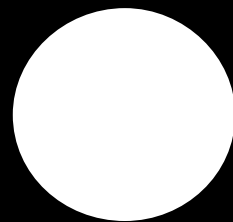
devel module

<http://drupal.org/project/devel>

<http://mydrupalinstall.com/devel/theme/registry>







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# What did you think?

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***THANK YOU!***

