



DRUPALCAMP GHENT

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## Better tools for content editors

Petr ILLEK – Morpht

**AUSY**  
a Randstad company

**LEVEL** 27

*Better tools for content editors*

## **Modifiers and Looks**



# Petr ILLEK

Front-End developer [Morpht.com](https://morpht.com)



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## Looks

### Overview

The Look module provides a means to apply a collection of Modifiers to a page using various rules. A number of different Modifiers, which are mapped to different parts of the page, can be wrapped up to form a coherent Look. The Look can then be applied to the page according to url parameters, the path or assignment to individual nodes.

#### The module is comprised of a number of components which work together:

- A Look entity which is fieldable and stores Modifier content.
- A UI which allows for the cascading of Looks to allow for inheritance of Modifiers.
- A Service which resolves a single active Look which is applicable to the current page
- A mapping configuration which assigns the Look fields to components on the page.
- A Conditional Plugin which allows for the assignment of Blocks according to Look.
- A Look Switcher Block which allows quick selection of Looks.

THE [MODIFIERS](#) MODULE IS A DEPENDENCY. WE SUGGEST YOU ALSO INSTALL THIS MODULE TOGETHER WITH [MODIFIERS PACK](#) MODULE TO GET UP AND RUNNING QUICKLY.

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## Look Switcher

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*Look Switcher*

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## Welcome to Looks and Modifiers

No front page content has been created yet.

Follow the [User Guide](#) to start building your site.



Contact

# The team

- 2 years of development
- Countless iterations and refactoring

**Murray**



**Vít**



**Petr**



**Honza**





# History of enhancements for editors

- 2013 – Drupal 7 Paragraphs module released
- Tools for adding content based on the Paragraphs module
- Paragraphs pack (paragraphs\_pack)
  - Set of paragraphs bundles
- Classy paragraphs (classy\_paragraphs)
  - Assign class to paragraphs

# Editors are still in pain

Can this pink be a bit more ... “pinkier”?

- Content editing is improved
- Theming is slowing them down
- Classy paragraph is not flexible enough

# Developers are worried

- Give power to editor?
- Do we lose control over structure?
- How to disallow crazy inaccessible stuff?

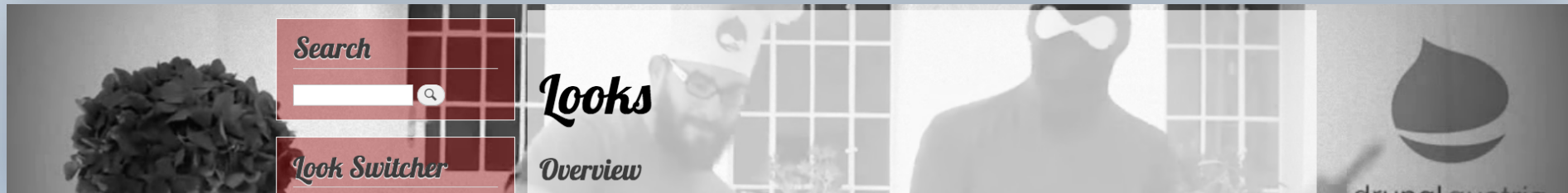
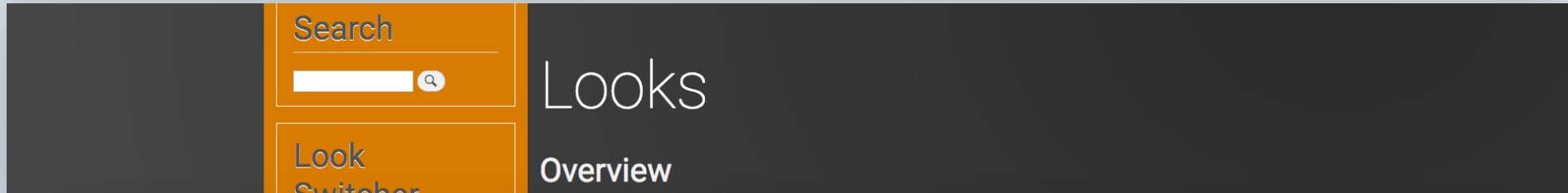
Grey writing on brown background is far from accessible. :(

# Modifications

- Content markup is not changed
- Change properties of defined element
- Set limits vs complete freedom
- Give responsibility to editors



# Modifications – examples



# Modifiers module



- Extracts values from modification fields
- Attach the values to elements defined by a **selector**
  - Entities
  - Theme regions
  - Wysiwyg classes
  - View modes
- API module

# Modifiers – usage



- Over 180 sites
- Small personal sites up to big enterprise projects
- Included in GovCMS 2 (full release soon)

# Modifiers pack



- Set of 18 modifiers
- Values stored using Paragraphs
- Config with name-spaced fields
- Preselected JS libraries
- Media query support

## MODIFIER SIDEBAR BLOCK

✚ Custom Colors Modifier  
Background Color: #FFFFFF 0.77  
Hover Background Color: #FFFFFF 1  
Duration: 0.45s

✚ Shadow Modifier  
Shadow Offset X: 0px  
Shadow Offset Y: 0px  
Shadow Blur: 15.00px  
Shadow Spread: 0px  
Shadow Color: #000000 0.25  
Shadow Hover Offset X: 0px  
Shadow Hover Offset Y: 0px  
Shadow Hover Blur: 35.00px  
Shadow Hover Spread: 0px  
Shadow Hover Color: #000000 0.45  
Shadow Hover Duration: 0.45s

Add Absolute Height Modifier

to Modifier sidebar block

# Hide modifier



```
public static function modification($selector, array $config) {  
    if (filter_var($config['hide'], FILTER_VALIDATE_BOOLEAN)) {  
        $media = parent::getMediaQuery($config);  
        $css[$media][$selector][] = 'display:none';  
        return new Modification($css);  
    }  
    return NULL;  
}
```



## Hide Modifier

Hide

Hide the element.

### Media Query

Set the media query for this modifier to be at the top.

# Background video modifier



```
...
$css[$media][$selector][] = 'position:relative';
$css[$media][$selector . ' .videojs-background-wrap'][] = 'position:absolute;
  .overflow:hidden;width:100%;height:100%;top:0;left:0;z-index:-998';
$libraries = [
  'modifiers_bg_video/videojs',
  'modifiers_bg_video/videojs_background',
  'modifiers_bg_video/apply',
];
if (!empty($provider_library)) {
  $libraries[] = $provider_library;
}
$settings = [
  'namespace' => 'VideoBgModifier',
  'callback' => 'apply',
  'selector' => $selector,
  'media' => $media,
  'args' => $args,
];
$attributes[$media][$selector]['class'][] = 'modifiers-has-background';
...
```

## Video Background M...

### Video background

Schnitzel preparation Drupal style ▾

Select a video to use as a background. YouTube is currently the only s

#### IMAGE

No media items are selected.

Browse media

Add media

Video fallback image.

One media item remaining.

#### BACKGROUND COLOR



Video background fallback color.

#### Media Query

# Fonts modifier



- Font family URL (Google fonts, TypeKit, ...)
- Base style
- Headings + other tags
- Heading transform (uppercase, lowercase ...)

**Stylesheets:** <https://fonts.googleapis.com/css?family=Roboto%3A100%2C400%2C900%22> **Base Style:** normal 400 1.6rem/2.1rem 'Roboto', sans-serif

**H1 Style:** normal 100 5rem/5rem 'Roboto', sans-serif

**H2 Style:** normal 400 2.5rem/3rem 'Roboto', sans-serif

**H3 Style:** normal 900 1.6rem/2.1rem 'Roboto', sans-serif

**H3 Transform:** Uppercase

# Custom Colors modifier



- Text, Link, Background
- :hover state
- Transition
- HEX, RGB, RGBA...



Custom Colors Modifier

**Background Color:** #FFFFFF 0

**Link Color:** #E67D00 1

**Hover Background Color:** #FFFFFF 0

**Hover Link Color:** #FFFFFF 0.98

**Duration:** 0.50s

Log in



Looks and Modifiers

Home Looks

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# Modifier pack list

18 options



- Absolute Height Modifier
- Colors Modifier
- Corners Modifier
- Custom Colors Modifier
- Custom Linear Gradient Modifier
- Custom Radial Gradient Modifier
- Fonts Modifier
- Hide Modifier
- HTML Font Size Modifier
- Image Background Modifier
- Image FX Modifier
- Linear Gradient Modifier
- Padding Modifier
- Parallax Background Modifier
- Radial Gradient Modifier
- Relative Height Modifier
- Shadow Modifier
- Video Background Modifier

# Modifiers pack usage



- Set of common modifications
- Quick setup
- Demo for creating own modifiers

# Look

- Drupal entity
- Combine modifiers in **sets**
- Map these sets to **selectors**



# Look entity

- Standard Drupal entity
- Fieldable
- Leverages Drupal 8 caching



View Edit Delete Revisions


Home » Administration » Structure » Look entities » Default look

**Name \***  
Default look  
The name of the Look entity.

**MODIFIER HTML**

Add HTML Font Size Modifier

**MODIFIER BODY**

+ Parallax Background ...  
Parallax:   
Parallax Speed: 0.55

Add Absolute Height Modifier to Modifier body

**MODIFIER HEADER**

+ Custom Colors Modifier  
Background Color: #FFFFFF 0  
Text Color: #33363A 1  
Link Color: #2E2F3A 1  
Hover Link Color: #235A87 1



# Look mappings

- Maps modifiers set to a selector
  - `.header`
  - `.header ul.menu > li > a:before`
  - order of modifiers = order in CSS
- Each theme has its own mapping

Bartik Seven

[Home](#) » [Administration](#) » [Configuration](#) » [User interface](#) » [Look settings](#)

LABEL	MACHINE NAME	SELECTOR
⊕ Modifier HTML	field_modifier_html	<input type="text" value="html"/>
⊕ Modifier body	field_modifier_body	<input type="text" value="body.look"/>
⊕ Modifier header	field_modifier_header	<input type="text" value="body #header"/>
⊕ Modifier page	field_modifier_page	<input type="text" value="body #page"/>
⊕ Modifier menu	field_modifier_menu	<input type="text" value=".region-primary-menu"/>
⊕ Modifier menu item	field_modifier_me	<input type="text" value=".region-primary-menu .m"/>
⊕ Modifier main wrapper	field_modifier_main_wrapper	<input type="text" value="body #main-wrapper"/>
⊕ Modifier main content	field_modifier_main_content	<input type="text" value="body #content"/>

# Look inheritance

- Working parent–child tree relation
- Each modification can be overridden



+ 1. No Look

+ 2. Cleanup

+ Lobster + Titillium font

+ Video look

+ Roboto font

+ 3. Default look



# Look cacheable

- Using cache tags
- After save the dependent Looks caches are invalidated

⊕ 1. No Look

⊕ 2. Cleanup

⊕ Lobster + Titillium font

⊕ Video look

⊕ Roboto font

⊕ 3. Default look

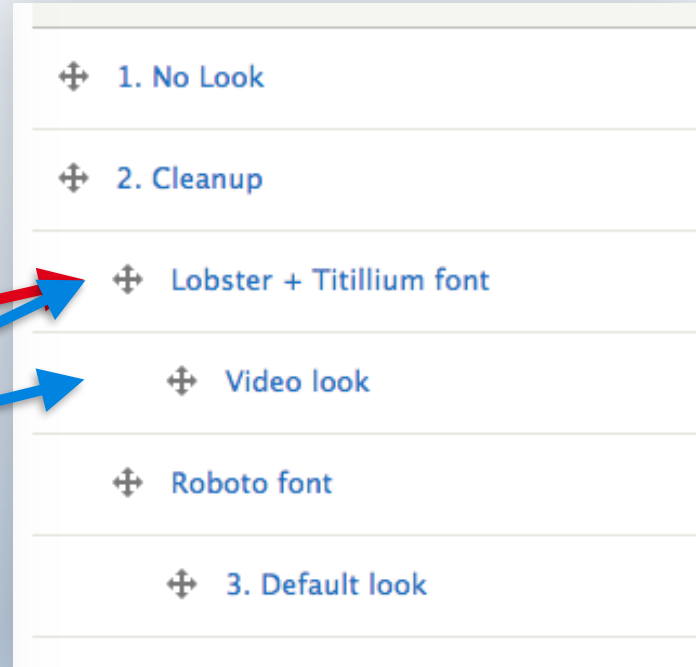


# Look cacheable

- Using cache tags
- After save the dependent Looks caches are invalidated

This was updated

This looks cache **is invalidated** and regenerated on next request







# Look reusable

- Set as default (front or back end)
- Set per section of site with URL
- Set by Look field on single node
- Set by URL parameter, cookie or session

**Look settings** ☆

Global settings | Mappings

[Home](#) » [Administration](#) » [Configuration](#) » [User interface](#)

**Default look**  
 ▾  
Select the default look to be applied.

**Default administration look**  
 ▾  
Select the default look to be applied for administration pages.

[Save configuration](#)

# Look block placement

- Standard Drupal block condition
- Useful for different logo per Look



<b>Looks</b> Not restricted	<b>Looks</b> <input type="checkbox"/> Cleanup <input type="checkbox"/> Default look <input type="checkbox"/> Lobster + Titillium font  <input type="checkbox"/> Negate the condition
<b>Content types</b> Not restricted	
<b>Pages</b> Not restricted	
<b>Roles</b> Not restricted	



# Look usage

- Landing pages
- Accessibility improvement
- Quick mockups creation
- A/B Testing
- Seasonal changes



# Where to start?

## Download the modules

- [drupal.org/project/modifiers](https://drupal.org/project/modifiers)
- [drupal.org/project/modifiers-pack](https://drupal.org/project/modifiers-pack)
- [drupal.org/project/look](https://drupal.org/project/look)




## In case you get stuck or find a bug

- [drupal.org/docs/8/modules/modifiers](https://drupal.org/docs/8/modules/modifiers)
- drupal slack #modifiers
- drupal issue queue

# Thank you for your attention!

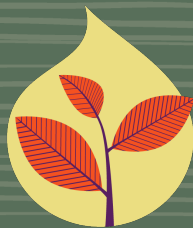
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 [@petrillek](https://twitter.com/petrillek)





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agiledrop



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Your host on the internet

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