



Getting Plone Ready for the Prom

Plone Symposium East 2008
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Who Am I?

- Plone developer since 2003
- Lead Developer at Six Feet Up, Inc.
- All around nice guy :)



What are we in for?

- Approaches to skinning Plone
- Tools used
- Advanced techniques



Where to start

- Debug mode
- `$INSTANCE_HOME/bin/zopectl fg`
- `$buildout/bin/instance fg`
- `zope.conf`
 - `debug-mode on`



More debug modes

- portal_css
- portal_javascripts
- portal_kss



Get to know Plone

The screenshot shows a web browser window displaying the Plone installation page. The DOM Inspector tool is open, showing the DOM tree on the left and the CSS style rules on the right. The browser window shows the Plone logo, navigation links (Home, Users, News, Events, My Stuff), a search bar, and a news sidebar. The main content area displays a 'Welcome to Plone' message with instructions for getting started.

DOM Inspector - Document - DOM Nodes

nodeName	id	class
▶ DIV		contentActions
#text		
▶ DIV	region-content	documentConte...
#text		
SPAN	contentTopLeft	
#text		
SPAN	contentTopRight	
#text		
A		
#text		
▶ DL	kssPortalMessage	portalMessage i...
#text		
▶ DIV	viewlet-above-content	

Object - CSS Style Rules

Rule	File	Line
html, div, map, dt, isindex, form	resource://gre/res/html.css	56
.documentContent	http://localhost:8080/Plone/portal_...	179
.documentEditable .documentContent	http://localhost:8080/Plone/portal_...	1607

Property Value

Property	Value
font-size	110%
padding-top	1em
padding-right-value	1em
padding-bottom	2em
padding-left-value	1em
padding-left-ltr-source	physical
padding-left-rtl-source	physical

Browser

Plone™

Site Map Accessibility Contact Site Setup

Search Site Search

only in current section

admin Log out

You are here: Home

Contents View Edit Rules Sharing History

Display Add new... State: Published

Welcome to Plone

by admin — last modified Feb 19, 2008 11:40 PM

Congratulations! You have successfully installed Plone.

Also available in presentation mode...

If you're seeing this instead of the web site you were expecting, the owner of this web site has just installed Plone. Do not contact the Plone Team or the Plone mailing lists about this.

Get started

Before you start exploring your newly created Plone site, please do the following:

1. Make sure you are logged in as an admin/manager user. (You should see a Site Setup link in the top right corner)
2. Set up your mail server. (Plone needs a valid SMTP server to verify users and send out password reminders)

News

Change Toward Cuba Likely to Come Slowly
Feb 19, 2008

Apple plans 2GB iPod Shuffle, cuts price on 1GB player
Feb 18, 2008

More news...

« March 2008 »

Mon Tue Wed Thu Fri Sat Sun



Get to know Plone

The screenshot shows a web browser window titled "Welcome to Plone — Super Happy Fun Town" at the URL "http://localhost:8080/Plone". The page displays the Plone logo, navigation links (Home, Users, News, Events, My Stuff), and a search bar. The main content area shows a "Welcome to Plone" message by "admin" dated Feb 19, 2008, with the text "Congratulations! You have successfully installed Plone." and a link to "presentation mode...". A "News" sidebar on the right lists articles like "Change Toward Cuba Likely to Come Slowly" and "Apple plans 2GB iPod".

The browser's developer tools (DOM Inspector) are open at the bottom, showing the DOM tree for the content area. The selected element is a `<p class="documentDescription">` containing a `` with the text "Congratulations! You have successfully installed Plone." The style pane on the right shows the default styles for `.inlineEditable` and `.documentDescription`.



Theories of Skinning

- Light Skinning
- use `base_properties`





base_properties

title:string=Plone's color, font, logo and border defaults

plone_skin:string=Plone Default

logoName:string=logo.jpg

fontFamily:string="Lucida Grande", Verdana, Lucida, Helvetica, Arial, sans-serif

fontBaseSize:string=69%

fontColor:string=Black

fontSmallSize:string=90%

backgroundColor:string=White

linkColor:string=#436976

linkActiveColor:string=Red

linkVisitedColor:string=Purple

borderWidth:string=1px

borderStyle:string=solid

borderStyleAnnotations:string=solid



css.dtml?

```
/* <dtml-with base_properties> (do not remove this :) */  
/* <dtml-call "REQUEST.set('portal_url', portal_url())"> (not this either :) */
```



Example in the wild

```
body {
  font: &dtml-fontBaseSize; <dtml-var fontFamily>;
  background-color: &dtml-backgroundColor;;
  color: &dtml-fontColor;;
  margin: 0;
  padding: 0;
}
table {
  font-size: 100%;
}
a {
  color: &dtml-linkColor;;
  background-color: transparent;
}
img {
  border: none;
  vertical-align: middle;
}
p {
  margin: 0 0 0.75em 0;
  line-height: 1.5em;
}
```

A yellow sticky note with a small 'x' icon in the top right corner and a corner icon in the bottom right corner. The text on the note reads "pulled from base.css.dtml".

pulled from
base.css.dtml



Building on the base

- ploneCustom.css
- override plone styles



Going all the way

- Clean the slate
- Leave just `authoring.css`



TTW vs FS



Now I'm convinced.

- DIYPloneStyle
- ZopeSkel
- GenericSetup





Resource registries

- portal_css
- portal_javascripts



Resource registries

CSS Registry
 Merged CSS Composition
 Undo
 Ownership
 Interfaces
 Security
 Doc

⊙ Stylesheets Registry at /Plone/portal_css

Debug/development mode In debug-/development mode, stylesheets are not merged to composites, and caching and compression of css is disabled. The registry also sends http-headers to prevent browsers from caching the stylesheets.

Recommended during css-related development. Remember to turn it off again, as the debugmode affects performance.

Automatic grouping mode In automatic grouping mode, resources are first ordered into mergeable groups based on their settings and after that merged based on their position in the registry.

Save

The order of the stylesheets in this form is the same as the order in the header of the resulting HTML code. Use the up/down arrows to change the rendering order.

member.css ↑ ↓ ×

Title	<input type="text"/>	CSS Media	<input type="text" value="screen"/>
Condition	<input type="text" value="not:portal/portal_memb"/>	rel	<input type="text" value="stylesheet"/>
Merging allowed?	<input checked="" type="checkbox"/>	Render type	<input type="text" value="import"/>
Caching allowed?	<input checked="" type="checkbox"/>	Compression type	<input type="text" value="safe"/>

RTL.css ↑ ↓ ×

Title	<input type="text"/>	CSS Media	<input type="text" value="screen"/>
Condition	<input type="text" value="python:portal.restricted"/>	rel	<input type="text" value="stylesheet"/>
Merging allowed?	<input checked="" type="checkbox"/>	Render type	<input type="text" value="import"/>
Caching allowed?	<input checked="" type="checkbox"/>	Compression type	<input type="text" value="safe"/>

base.css ↑ ↓ ×

Title	<input type="text"/>	CSS Media	<input type="text" value="screen"/>
Condition	<input type="text"/>	rel	<input type="text" value="stylesheet"/>
Merging allowed?	<input checked="" type="checkbox"/>	Render type	<input type="text" value="import"/>
Caching allowed?	<input checked="" type="checkbox"/>	Compression type	<input type="text" value="safe"/>



Advanced techniques



Viewlets

- New to Plone 3
- More control over the main_template



Using @@manage-viewlets

ViewletManager: plone.portaltop

Viewlet: plone.header (0) ↓ hide

ViewletManager: plone.portalheader

Viewlet: plone.skip_links (0) ↓ hide


Viewlet: plone.site_actions (1) ↑ ↓ hide

Site Map Accessibility Contact Site Setup

Viewlet: plone.searchbox (2) ↑ ↓ hide

Search Site only in current section


Viewlet: plone.logo (3) ↑ ↓ hide

 Plone™

Viewlet: plone.global_sections (4) ↑ hide

Home Users News Events My Stuff

Viewlet: plone.personal_bar (1) ↑ ↓ hide

 admin Log out

Viewlet: plone.app.i18n.locales.languageselector (2) ↑ ↓ hide

Viewlet: plone.path_bar (3) ↑ hide

You are here: Home



Using @@manage-viewlets

ViewletManager: plone.contentviews

Viewlet: plone.contentviews (0) ↓ hide

Contents View Edit Rules Sharing

Viewlet: plone.contentactions (1) ↑ hide

ViewletManager: plone.abovecontent

ViewletManager: plone.abovecontenttitle

Title

ViewletManager: plone.belowcontenttitle

Viewlet: plone.belowcontenttitle.documentbyline (0) ↓ hide

— last modified Feb 19, 2008 11:40 PM

Viewlet: plone.belowcontenttitle.keywords (1) ↑ hide

Description

ViewletManager: plone.abovecontentbody

This item does not have any body text, click the edit tab to change it.

ViewletManager: plone.belowcontentbody

Viewlet: plone.abovecontenttitle.documentactions (0) ↓ hide

— Send this — Print this —

ViewletManager: plone.documentactions

Viewlet: plone.belowcontentbody.workflowhistory (1) ↑ hide

ViewletManager: plone.belowcontent

Viewlet: plone.nextprevious (0) hide

News

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Feb 19, 2008

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Feb 18, 2008

[More news...](#)

« March 2008 »

Mon	Tue	Wed	Thu	Fri	Sat	Sun
					1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30
31						

[Manage portlets](#)



Using @@manage-viewlets

ViewletManager: plone.portalfooter

Viewlet: plone.footer (0) ↓ hide

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Viewlet: plone.colophon (1) ↑ ↓ hide

[Powered by Plone](#) [Valid XHTML](#) [Valid CSS](#) [Section 508](#) [WCAG](#)

Viewlet: plone.analytics (2) ↑ hide



Layers

```
from plone.theme.interfaces import IDefaultPloneLayer
```

```
class IThemeSpecific(IDefaultPloneLayer):
```

```
    """Marker interface that defines a Zope 3 browser layer.  
    If you need to register a viewlet only for the  
    "example" theme, this interface must be its layer  
    (in theme/viewlets/configure.zcml).
```

```
    """
```



Layers

```
<interface
  interface=".interfaces.IThemeSpecific"
  type="zope.publisher.interfaces.browser.IBrowserSkinType"
  name="example"
/>
```




Moving viewlets

```
<browser:viewlet  
  name="plone.abovecontenttitle.documentactions"  
  manager="plone.app.layout.viewlets.interfaces.IAboveContentTitle"  
  class="plone.app.layout.viewlets.content.DocumentActionsViewlet"  
  permission="zope2.View"  
  layer=".interfaces.IThemeSpecific"  
>
```



Overriding viewlets

```
<browser:viewlet
  name="plone.footer"
  for="*"
  manager="plone.app.layout.viewlets.interfaces.IPortalFooter"
  template="mytheme_footer.pt"
  permission="zope.Public"
  layer= ".interfaces.IThemeSpecific"
/>
```



z3c.jbot

```
eggs = z3c.jbot  
zcml = z3c.jbot-meta
```

```
<browser:templateOverrides directory="templates" />
```

```
templates/plone.app.layout.viewlets.footer.pt
```



Overriding portlets

```
<plone:portletRenderer  
  portlet="plone.app.portlets.portlets.news.INewsPortlet"  
  template="mytheme_news.pt"  
  layer=".interfaces.IThemeSpecific"  
>
```



Zope 3 resources

```
<browser:resourceDirectory  
  name="example-app-images"  
  directory="images"  
  layer=".interfaces.IThemeSpecific"  
>
```

```
/++resource++example-app-images/foo.jpg
```



The Future



FIN





Questions?



Support

<http://plone.org/documentation>

<https://weblion.psu.edu/trac/weblion/wiki/WebDevelopment>

<http://plone.org/documentation/how-to/firefox-tools>

<http://plone.org/documentation/tutorial/creating-plone-themes>

<http://plone.org/documentation/tutorial/customizing-main-template-viewlets>

<http://plone.org/documentation/tutorial/zpt>

Professional Plone Development Book

<http://www.packtpub.com/Professional-Plone-web-applications-CMS/book>