

One theme for multiple Open edX services using Diazo

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What's Diazo?
Yet another theming technology?

Not a replacement, an addition

Apply common theme elements
across the LMS, Studio...

E-Commerce,
Analytics Dashboard,
non-edX marketing pages ...

Existing site front-ends
Parts of themes
Off the shelf Bootstrap themes
Themes not Open edX team's control

Welcome to the Open edX® platform!

It works! This is the default homepage for this Open edX instance.

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Starts: Feb 4, 2013



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Diazo:

Theme + Open edX content + rules =
Final output to the user

Let's take a look

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ABOUT LEARNEDU

LMS (Studio, ...)



WSGI Diazo Middleware



XSL transform (rules.xml)



Final HTML

rules.xml

```
<rules  
  
    <!-- RELATIVE OR ABSOLUTE URL TO YOUR THEME FILE -->  
    <theme href="index.html" />  
  
    <!-- YOUR RULES GO HERE -->  
  
</rules>
```

rules.xml

```
<drop />
```

```
<replace/>
```

```
<before />
```

```
<after />
```

```
<merge />
```

rules.xml

```
<drop (THINGS FROM THE THEME) />
```

```
<replace (THING IN THE THEME) with (THINGS FROM THE CONTENT) />
```

```
<before (THING FROM THE THEME) (THING FROM THE CONTENT) />
```

```
<after (THING FROM THE THEME) (THING FROM THE CONTENT) />
```

```
<merge (THEME CLASS VALUES) (CONTENT CLASS VALUES) />
```

A REAL EXAMPLE

```
<replace css:theme-children="#content"  
css:content="nav.wrapper-preview-menu, #content" />
```

index.html

View result Generate rule

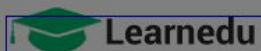


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div.topbar div.container div.row div.col-lg-8

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Generate Rule

- Replace
- Drop content element
- Drop theme element
- Before
- After
- Apply to theme node children
- Apply to content node children

```
<replace css:content="ol.left" css:theme="div.slicknav_menu" />
```

Cancel

Generate

rules.xml

```
1 <?xml version="1.0" encoding="UTF-8"?>
2 <rules
3   xmlns="http://namespaces.plone.org/diazo"
4   xmlns:css="http://namespaces.plone.org/diazo/css"
5   xmlns:xsl="http://www.w3.org/1999/XSL/Transform"
6   xmlns:xi="http://www.w3.org/2001/XInclude">
7
8   <!-- Nifty output settings -->
9   <xsl:strip-space elements="*" />
10  <xsl:output method="xml" indent="yes" omit-xml-declaration="yes" />
11
12 <!-- You don't have to use a theme at all. You can just use rules -->
```

Welcome to the Open
platform!

This is the default homepage
of an open edX instance.

for a course



nav/ol[2]/li[1]

Selector: ol.left



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edX Demonstration Course

edX - DemoX
Started - Feb 4, 2013



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CONDITIONAL RULES

```
<!-- class only exists in LMS -->  
<rules css:if-content=".main-container">  
  <xi:include href="lms.xml" />  
</rules>
```

CONDITIONAL THEMES

```
<!-- class only exists in LMS -->  
<theme css:if-content=".main-container" href="lms.html"/>
```

edx-
platform

```
edx-platform/lms/wsgi.py
```

```
edx-platform/cms/wsgi.py
```

```
# ADD...
```

```
from django_diazo.wsgi import DiazoMiddlewareWrapper
```

```
application = DiazoMiddlewareWrapper(application)
```

lms.env.json

cms.env.json

```
ADDL_INSTALLED_APPS: [  
    "django_diazo",  
    "django_diazo_themes",  
    "django_diazo_themes.YOUR_THEME_PACKAGE",  
]
```

COLLECT THE STATIC ASSETS

```
./manage.py lms collectstatic --settings=aws collectstatic --noinput
```

```
/edx/bin/edxapp-update-assets-lms
```

```
/edx/bin/edxapp-update-assets-cms
```

SYNC THEMES

(`django_diazo_themes.management.commands`)

```
./manage.py lms syncthemes --settings=aws
```

The screenshot shows the Django administration interface for managing themes. The page title is "Django administration" and the user is logged in as "bryanlandia". The breadcrumb trail is "Home > Django Diazo > Themes". The main heading is "Select theme to change" with an "Add theme +" button. Below the heading is a table with columns: Name, Enabled, Pattern, and Debug. There are two themes listed: "Open edX Lite" (disabled, debug on) and "GrayGrids LearnedU Bootstrap4 Theme" (enabled, debug on). A "Filter" sidebar on the right allows filtering by "By Enabled" (All, Yes, No) and "By Debug" (All, Yes, No). A "Save" button is at the bottom right of the table.

<input type="checkbox"/>	Name	Enabled	Pattern	Debug
<input type="checkbox"/>	Open edX Lite	<input type="checkbox"/>	<input type="text" value="^(?!.*admin)"/>	<input checked="" type="checkbox"/>
<input type="checkbox"/>	GrayGrids LearnedU Bootstrap4 Theme	<input checked="" type="checkbox"/>	<input type="text" value="^(?!.*admin)"/>	<input checked="" type="checkbox"/>

Possibilities

Compile from Diazo, run transform with Nginx XSLT

Rules.xml templates for Open edX services

Uploadable themes (served independently)

Auto-namespacer for theme CSS (avoid class name collisions)

Next steps

CONTACT ME IF YOU ARE INTERESTED

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bryan@appsembler.com

More info & URLs

GITHUB.COM/APPSEMBLER

DJANGO_DIAZO

<https://github.com/appsembler/openedx-experimental/tree/django-diazo>

DJANGO_DIAZO_THEMES

<https://github.com/appsembler/openedxcon2018-demo/tree/django-diazo-themes>

EDX-PLATFORM MODIFICATIONS

<https://github.com/appsembler/ginkgo/tree/edx-platform/experimental/diazo-integration>

More info & URLs

THEME & RULES FILES

LEARNEDU THEME

[Theme.index.html](#)

[Main.rules.xml](#)

[lms.xml](#)

[cms.xml](#)

OPENEDXLITE THEME

[rules.xml](#)

More info & URLs

DIAZO

DIAZO ON PYPI - <https://pypi.org/project/diazo/>

DOCUMENTATION - [DOCS.DIAZO.ORG](https://docs.diazo.org)

THEMEMAPPER

THEMEMAPPER.CORE - <https://github.com/appsembler/thememapper.core/tree/develop>

THEMEMAPPER.DIAZO - <https://github.com/appsembler/thememapper.diazo/tree/develop>

Thanks

The Plone community (Diazo)

Goldmund, Wyldebeast & Wunderliebe (django_diazo*)

And of course... edX and the Open edX community

Thank You!

www.appsembler.com

