Integrating Pattern Lab with a CMS Build

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→ Notes & Presenation: http://evanlovely.com/ notes/pattern-lab → Shared Google Doc: http://bit.ly/2aDJmiU

https://github.com/phase2/drupal-lab

git clone git@github.com:phase2/drupal-lab.git cd drupal-lab bash scripts/site-setup.sh

Run servers in two tabs

Drupal Server: composer run server --timeout=0 Pattern Lab Server:

cd web/themes/dashing/ npm start

Website Ingredients

 \rightarrow HTML¹ $\rightarrow CSS^2$ $\rightarrow JS^{3}$

¹ Includes images. ² Includes fonts, and also images. ³ Could contain everything, but let's just sidestep that tangent. @EvanLovely ~ http://evanlovely.com

CMS integration is made possible by shared⁴ assets.

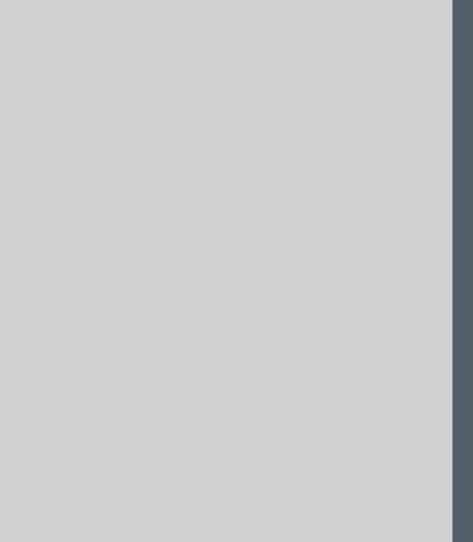
Two levels of Integrated Pattern Labs

Shared CSS & JS
 Shared CSS, JS, & HTML

4 'shared' !== 'copied'

Shared CSS & JS is awesome and a great place to start





HOWEVEr 'Shared CSS, JS, & HTML' === holyGrail⁵

⁵ Disclaimer: May not provide happiness, eternal youth nor food in infinite abundance. @EvanLovely ~ http://evanlovely.com

Pattern Lab 1

\rightarrow Single templating engines: Mustache.

Pattern Lab 2

 \rightarrow Multiple templating engines, most notably **Twig**, the new templating engine in Drupal 8!

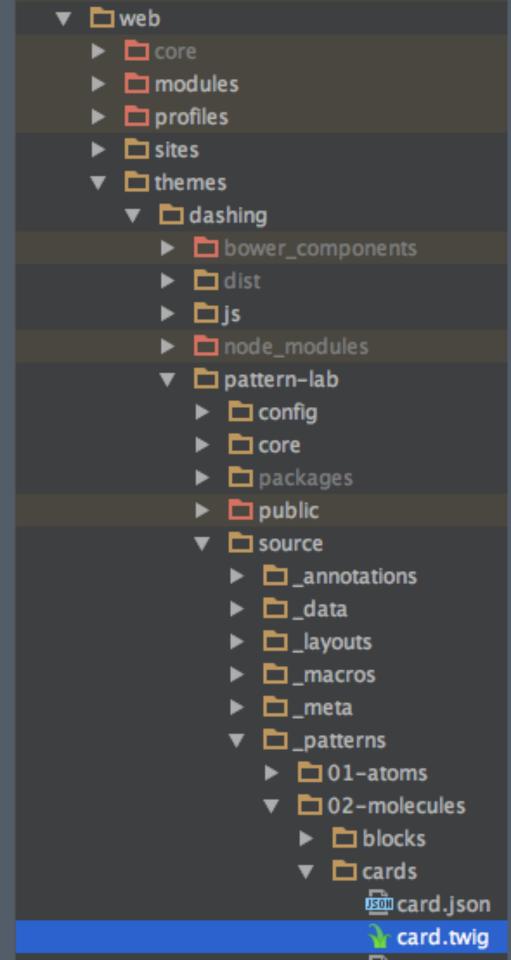
Crucial Concept: Template Paths

How does the system find these files?⁶

{% include 'path/to/my/template.twig' %} {% include 'path-template' %} {% include '@path/my/template.twig' %}

> ⁶ Also applies to {% extends %}, {% embed %}, and other Twig tags. @EvanLovely ~ http://evanlovely.com

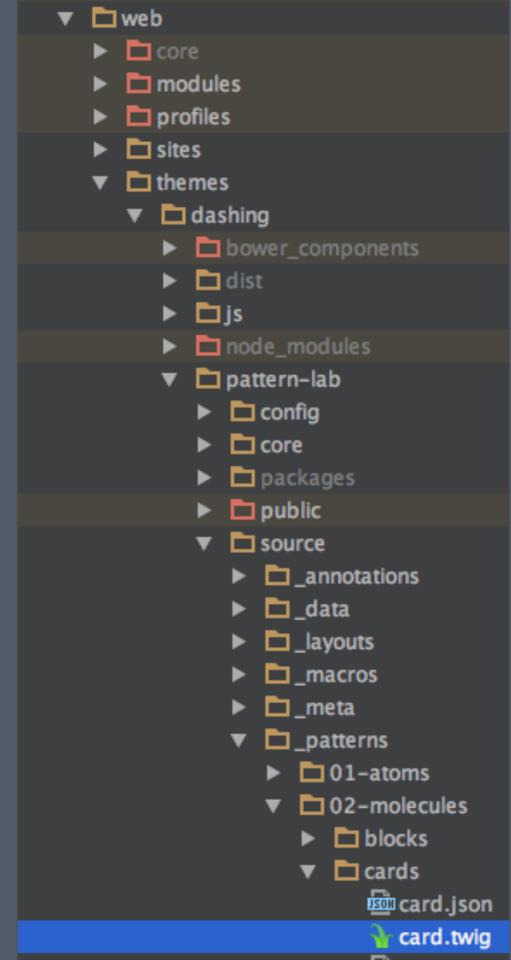




Pattern Lab Shorthand Syntax

This is awesome for just PL, but must be avoided for shared templates as Drupal does not have this.

- Longhand:
- {% include '02-molecules/cards/ card.twig' %}
 - Shorthand:
- {% include 'molecules-card' %}



Pattern Lab include:

{% include '02-molecules/cards/ card.twig' %} 10 {% include 'molecules-card' %}

{% include 'themes/dashing/ pattern-lab/source/_patterns/02molecules/cards/card.twig' %}

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Drupal include:

Goal: Same path working in both places So, where's the base?

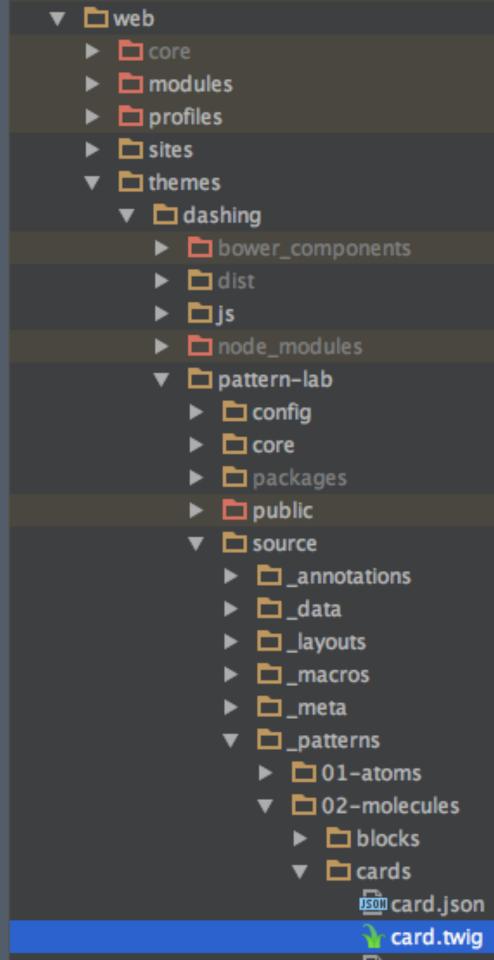
All Twig environments declare a *default* base path: → Pattern Lab: pattern-lab/source/_patterns/⁷ → Drupal: web root

⁷ May be elsewhere, it's the value of sourceDir in config, then in the _patterns/ subdirectory.

Twig Namespaces to the Rescue!

Namespaces are a variable for a base path. @foo === 'wherever/the/hell/foo/is/' So we could then do: {% include '@foo/my/file.twig' %} Which is the same as: {% include 'wherever/the/hell/foo/is/my/file.twig' %}

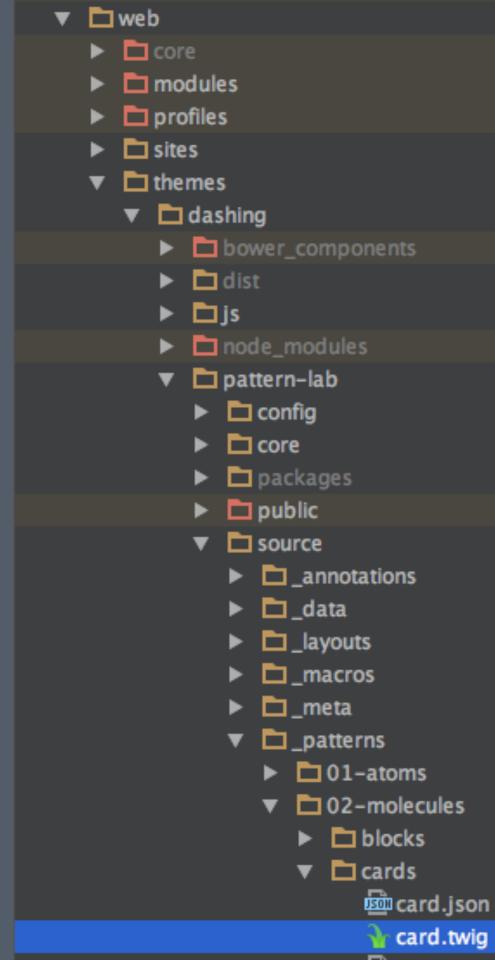




Need to register same namespaces in Drupal and PL

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amolecules must resolve to same base path in both systems.

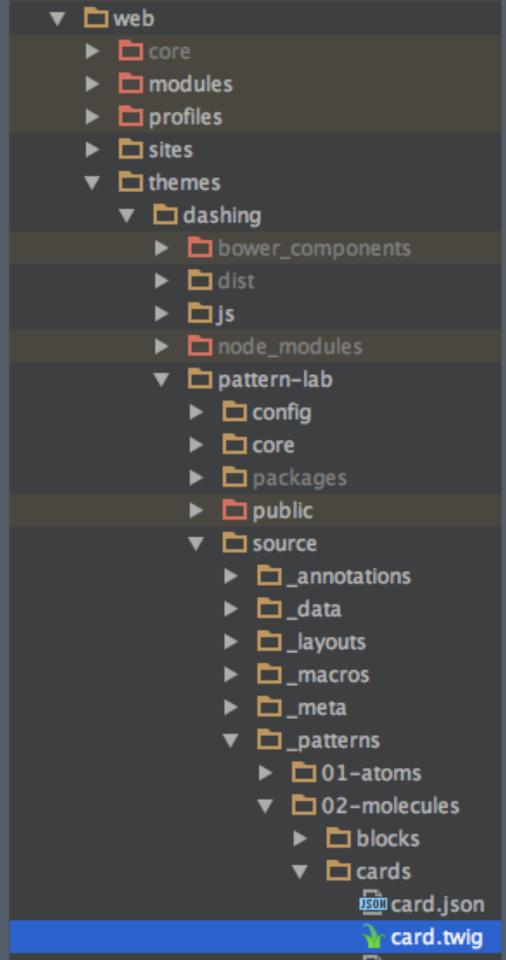


Pattern Lab registers each folder⁸ below pattern-lab/source/ _patterns/ as one, stripped of numbers.

→ @atoms === 'pattern-lab/source/
_patterns/01-atoms/'

→ @molecules === 'pattern-lab/
source/_patterns/02-molecules/'

⁸ Works with any folders names, you don't have to use Atomic Design's atoms, molecules, or organisms.



component-libraries: atoms: paths: - pattern-lab/source/_patterns/01-atoms molecules: paths: - pattern-lab/source/_patterns/02-molecules organisms: paths: - pattern-lab/source/_patterns/03-organisms templates: paths: - pattern-lab/source/_patterns/04-templates pages: paths: - pattern-lab/source/_patterns/05-pages ⁹ https://www.drupal.org/project/components @EvanLovely ~ http://evanlovely.com

Use the Drupal module Component Libraries⁹ register same namespaces

In theme-name.info.yml:

Now, your templates and include paths work in **both systems**

{% include '@molecules/path/to/template.twig' %}

The fun stuff: passing data

In block--system-branding-block.twig:

```
{% include "@molecules/blocks/branding.twig"
  with {
     "url": path('<front>')
  }
%}
```

In branding.twig: