

Getting Atomic with Pattern Lab

Who am I?

Who am I?

Aaron Froehlich

- Technical Lead, ILR School at Cornell
- a-fro (d.o)
- a-fro.com
- @aaronfroehlich
- aaronf@cornell.edu
- Husband, father, builder

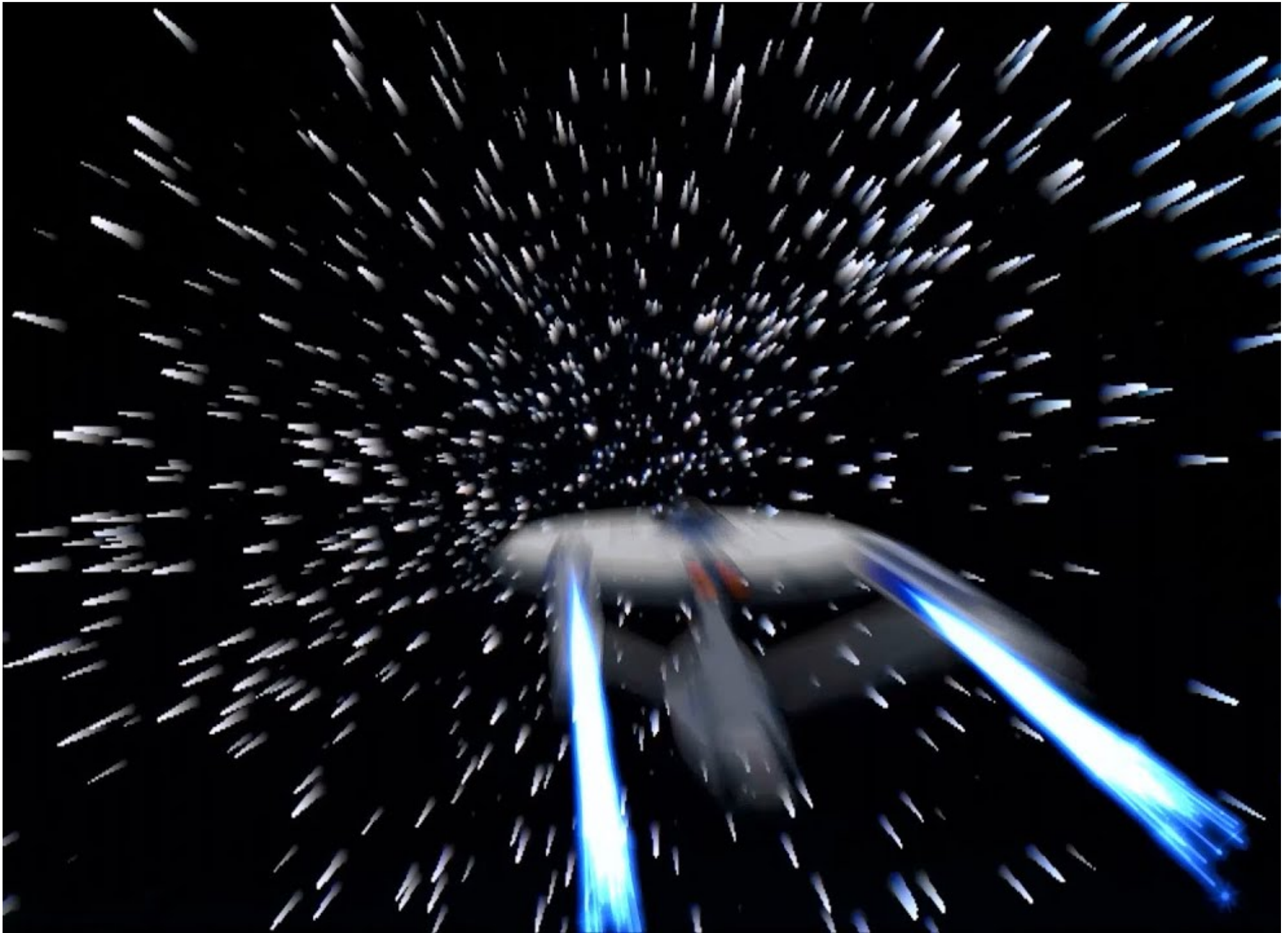
Where are we going?



You are here



You are here.

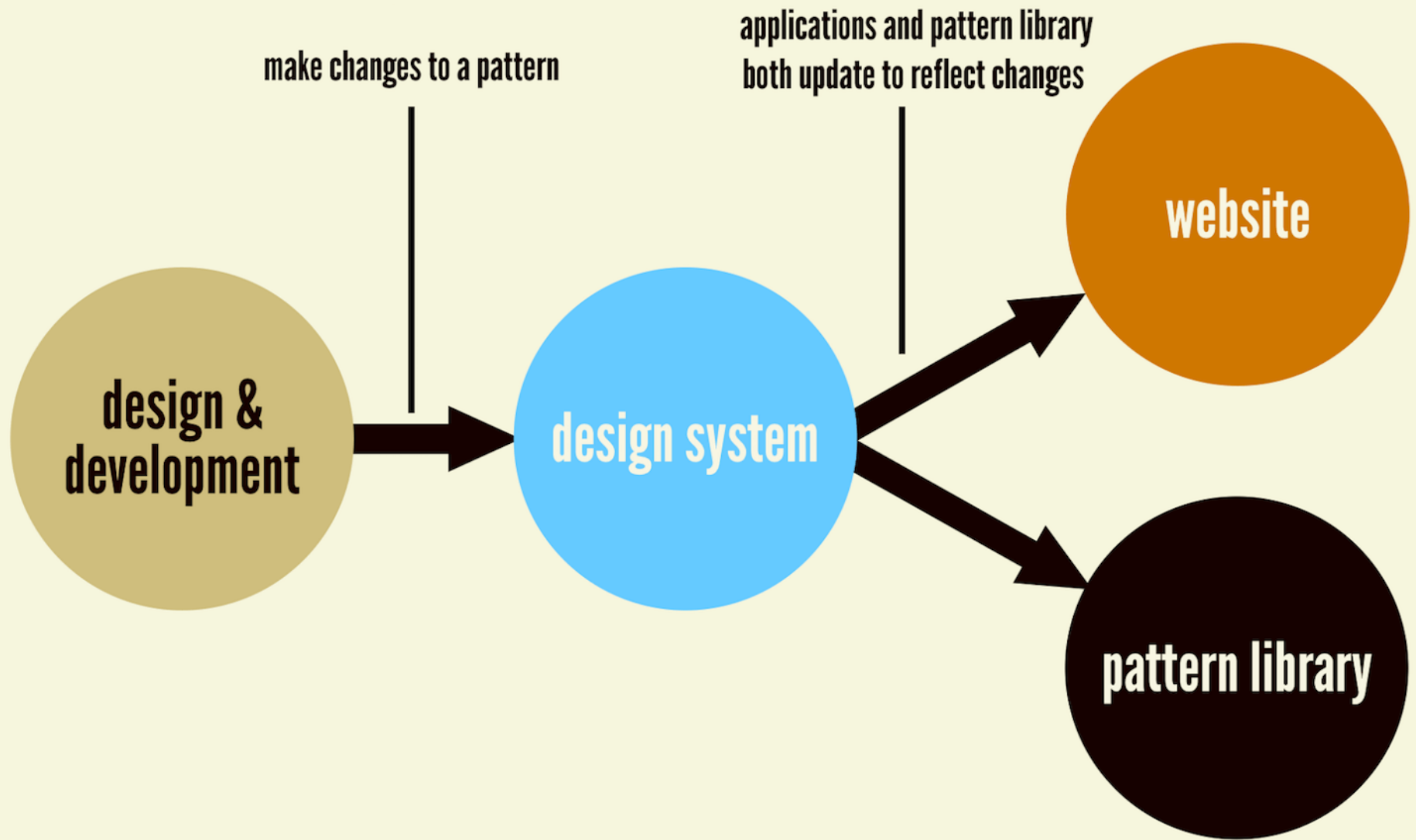




Search for the Holy Grail



Search for the Holy Grail



Where have we been?

Yahoo! Toolbar - Protect your ID Get it, Leave, Audit - Hide it hourly at Yahoo! Auction

YAHOO!

Web Images Video Local Shopping More

Search Web Search

Yahoo! Home By Yahoo! V News Jan 20, 2009 Page Deflate

Answers

Acting

Finance

Games

Groups

HotIndex

Maps

Mobile Web

Movies | TV

Music

OS/MS

Personals

Real Estate

Shopping

Sports

Travel

Yellow Pages

More Yahoo! Services

Small Business

- Get a Web Site
- Domain Names
- Small Online
- SearchJobs

Featured Services

- Downloads
- Health
- Kids
- GeoCities
- Mail Plus
- Y! International



"We must pick ourselves up"

Massive crowds leave calm
Barack Obama admits to harsh realities in his inauguration speech. [View our feed!](#)

- Text of full speech
- Clip on the web
- Obama in wheelchair
- Inauguration photos

Also in the News

- More than one million attend inauguration [View National Mail](#)
- Authorities keep inauguration security tight after riotous parade [View Market](#)
- Obama uses same inaugural Bible used by Lincoln [View Market](#)
- Celebrations from Kenya to Indonesia mark inauguration [View Market](#)
- Who pays? The wealthy Americans behind the inauguration [View Market](#)
- Hamas militants hold victory rally [View Market](#)
- Obama's inaugural speech [View Market](#)
- Nichelle Obama wears dress by Cuban-American designer [View Market](#)

Marketplace

 **Shoes for Women, Men and Kids**
Pumps, boots, sneakers, wedges, and more. All the hottest shoes are on Yahoo! Shopping.

Go to Yahoo! Shopping and save on the hot new styles.
Go to Yahoo! Shopping and compare prices on thousands of phones. Find your new cell phone here.
Yahoo! Real Estate - Buy, sell or rent a home. Get started now.

Check your real status. [Sign In](#) [Free web](#) [Sign Up](#)

Mail **Messenger** **Puzzles**

Weather **Feeds** **Memoranda**

Yahoo! Search
What's happening now

Search Web: [Go](#)

Search Obama **Pod Dayguy** **Stacy** **Michelle Obama** **Michelle Obama** **Michelle Obama**

Top Searches in 2008
See what the world was searching for

Today's Top Searches

1. James King	6. Tashqeen Akram
2. 10 Billion	7. Allergies
3. Angela Bassett	8. Outlook Auto Show
4. Inauguration Day	9. Super Bowl Tickets
5. Kira Sedgwick	10. Massage Therapy...

Pulse - What Yahooers Are Into

Popular Touch Screen Cell Phones

- Nokia N95
- Apple iPhone 2G
- HTC Touch Diamond
- Motorola Q4 K4R
- Nokia N95
- LG Prada

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Cascading styles!

```
<title>My first web page!</title>
<style type="text/css">
  a {
    color: #ff0000;
    text-decoration: none;
    border: 1px double #ff0000;
    text-transform: uppercase;
  }
</style>
```

```
<a href="webmaster.htm">About me</a>
```






Enter...

PHP... CMS... MVC... Templating... jQuery...

The Baker Street
INQUIRER

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- [Back Issues](#)
- [About Our Paper](#)

“Give me problems, give me *work*.”

In the year 1878 I took my degree of Doctor of Medicine of the University of London, and proceeded to Netley to go through the course prescribed for surgeons in the army. Having completed my studies there, I was duly attached to the Fifth Northumberland Fusiliers as Assistant Surgeon. The regiment was stationed in India at the time, and before I could join it, the second Afghan war had broken out. On landing at Bombay, I learned that my corps had advanced through the passes, and was already deep in the enemy's country.

Victors & Villains

Responsive!



Sign Out

Manage

Account ★★★★★ (23)

Agree and Continue

Accept and Continue

WiFi Direct
Cancel

ADD UP TO 3 PHOTOS

Quick Sale
Sell From Listings
Sell From History

Back Continue

Search for items or shops Search

Jessica's Favorites
Items Shops Treasuries

+ Add a listing

Turn Your Passion Into a Business
Open a Shop

Contact The Shop

Quick edit United States English (US) \$ USD Help

1 2 3

Post Tweet Register Sign In Shape, color, style, function, etc. Add

Close Account Add to Cart

Check out what's trending

Open in App

Your daily Etsy shop
Subscribe
See our other news!

Related to this Item
Clothing Women's Clothing Dress
party dress christmas dress black

1 2 3 4 5 6 7 8

Quick Sale
Sell From Listings
Sell From History

Favorite Shop Move to Favorites Stats

Add to Cart

Proceed to Checkout

Register Sign In

Embroidery pattern for sh...

Add to Cart

Make a payment

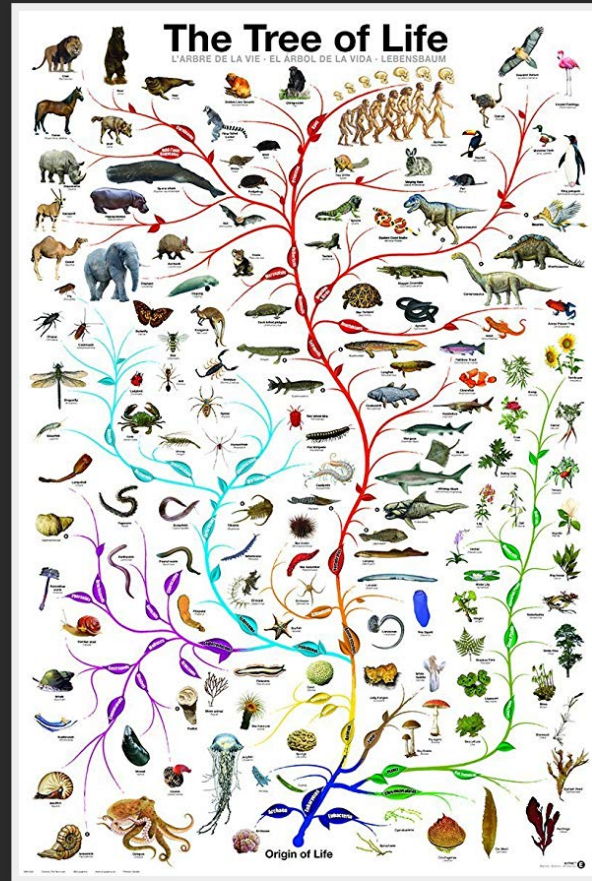
See more

English (US) \$ United States Dollar United States

1 2 3 4 5 6 7

Check Out

Add to Cart



Where are we now?

From pages..

Rich text editor toolbar with icons for undo, redo, bold, italic, strikethrough, bulleted list, numbered list, indent, outdent, quote, styles, normal, and source.

Apollo 11

Apollo 11 was the spaceflight that landed the first humans, Americans [Neil Armstrong](#) and [Buzz Aldrin](#), on the Moon on July 20, 1969, at 20:18 UTC. Armstrong became the first to step onto the lunar surface 6 hours later on July 21 at 02:56 UTC.

Armstrong spent about ~~three and a half~~ two and a half hours outside the spacecraft, Aldrin slightly less; and together they collected 47.5 pounds (21.5 kg) of lunar material for return to Earth. A third member of the mission, [Michael Collins](#), piloted the [command](#) spacecraft alone in lunar orbit until



body p

...to patterns

...to systems

“A set of objects governed by rules.”

—AARON FROELICH

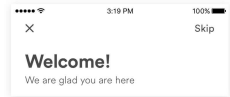
Core

Navigation

Navigation allows users to navigate between views. The navigation is shared on every single view of the app and is important to keep consistent.

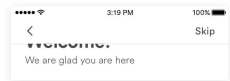
Static State

Views that use Marquees use static state that is aligned on the top of the view.

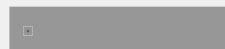


Collapsed State

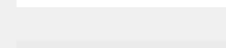
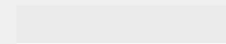
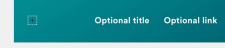
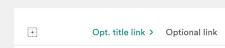
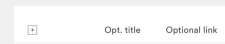
When the view scrolls the nav transforms in to collapsed nav, fixes in to the top view with a shadow.



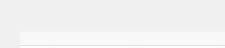
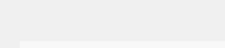
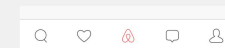
Static

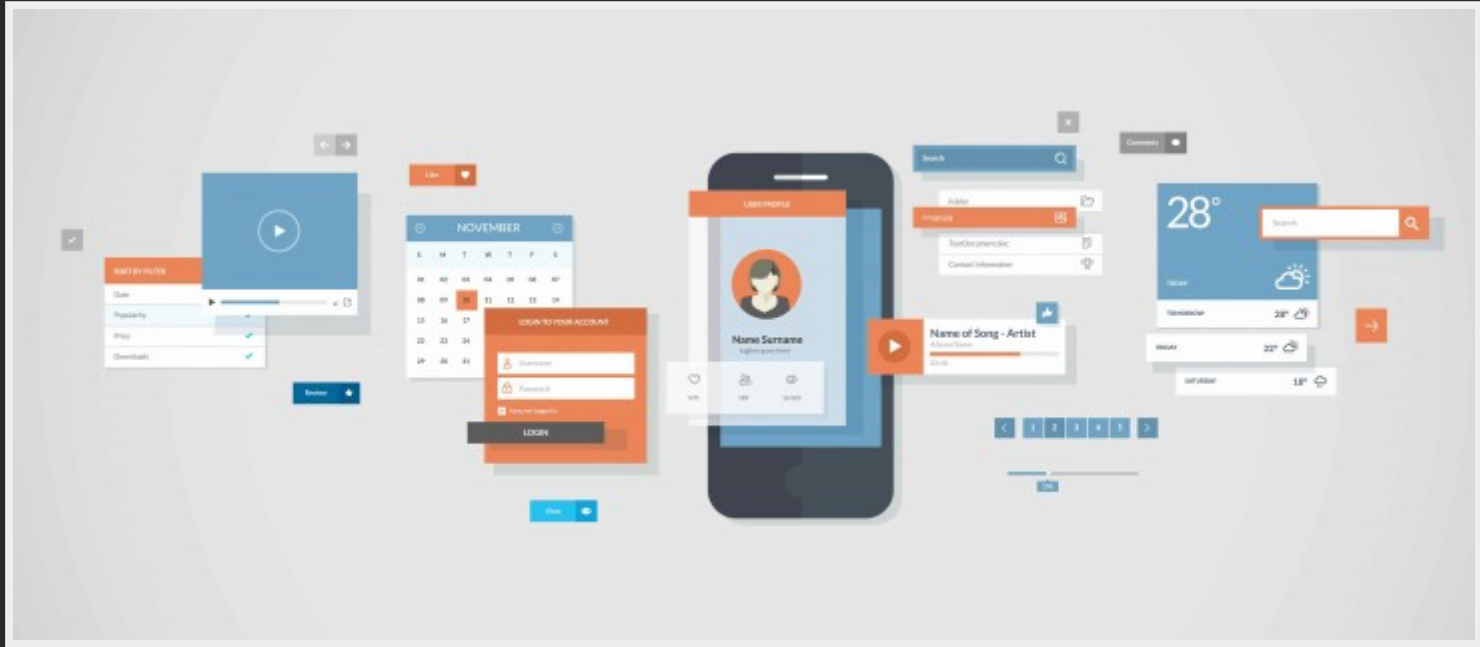


Fixed



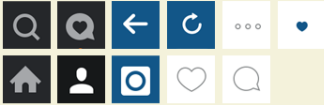
Bottom Navigation







ATOMS



PHOTO

XXXXXX likes

thisistheusersinstagramhandle

2h

Lorem ipsum dolor sit amet, consectetur adipiscing

150 x 150



MOLECULES

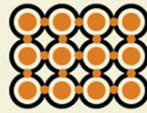


thisistheusersinstagramhandle 2h



XXXXXX likes

thisistheusersinstagramhandle Lorem ipsum dolor sit amet, consectetur adipiscing



ORGANISMS



thisistheusersinstagramhandle 2h



XXXXXX likes
thisistheusersinstagramhandle Lorem ipsum dolor sit amet, consectetur adipiscing



TEMPLATES



thisistheusersinstagramhandle 2h



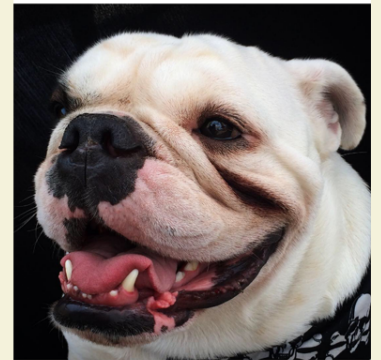
XXXXXX likes
thisistheusersinstagramhandle Lorem ipsum dolor sit amet, consectetur adipiscing



PAGES



brad_frost 2h



41 likes
brad_frost Hi!





ATOMS

MOLECULES

ORGANISMS

PAGES

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Fiery chili sauce

[VIEW RECIPE >](#)

Fiery chili sauce

[VIEW RECIPE >](#)



Crema catalana

[VIEW RECIPE >](#)



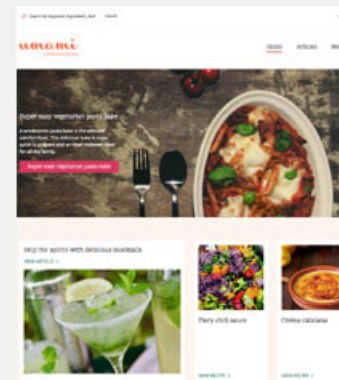
Thai green curry

[VIEW RECIPE >](#)



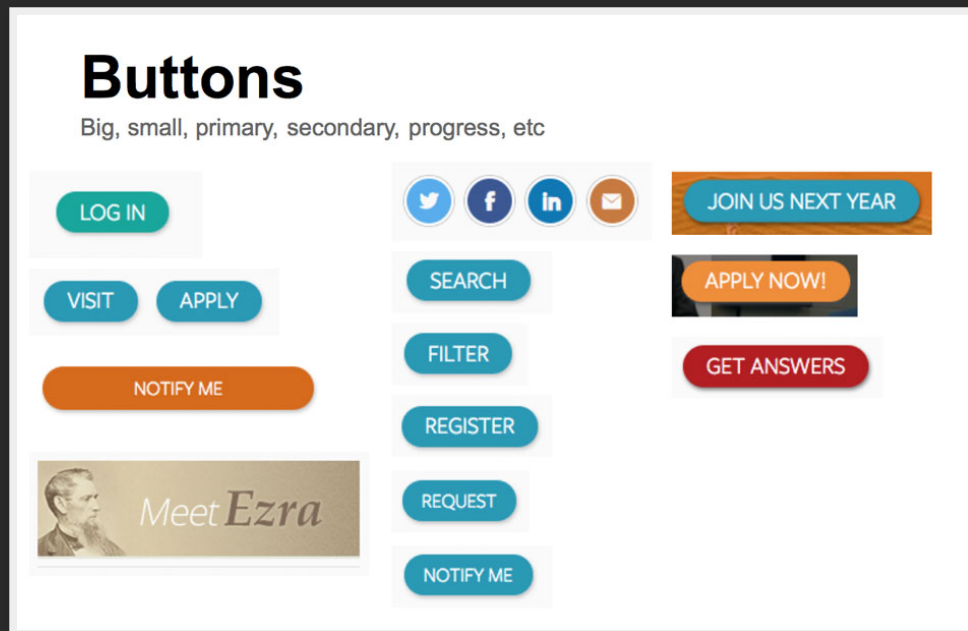
Gluten free pizza

[VIEW RECIPE >](#)



How do we solve these problems?

Existing projects - Interface inventory



New projects - Styleguide

Demo Umami Quicktour

Umami

Search by keyword, ingredient, dish Search

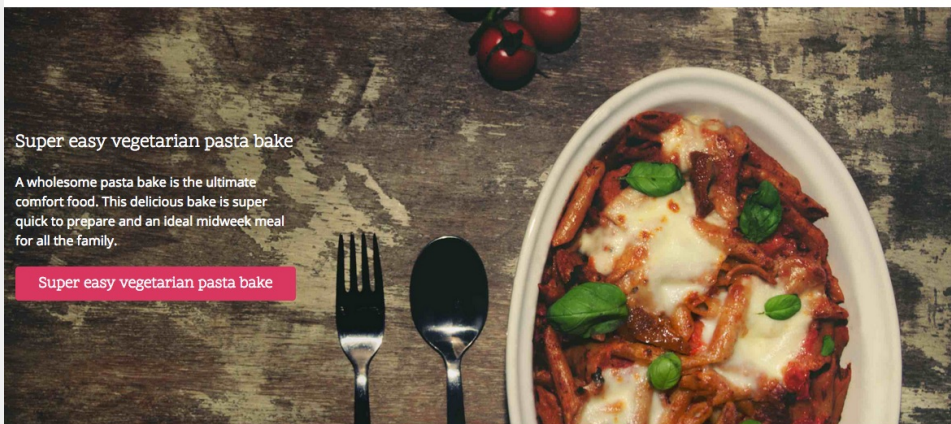
Log in

umami
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Super easy vegetarian pasta bake

A wholesome pasta bake is the ultimate comfort food. This delicious bake is super quick to prepare and an ideal midweek meal for all the family.

[Super easy vegetarian pasta bake](#)

Skip the spirits with delicious mocktails

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Fiery chili sauce

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Crema catalana

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Umami

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Recipe Banner

Super easy vegetarian pasta bake

A wholesome pasta bake is the ultimate comfort food. This delicious bake is super quick to prepare and an ideal midweek meal for all the family.

Super easy vegetarian pasta bake

Promoted Card Grid

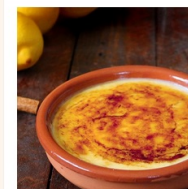
Skip the spirits with delicious mocktails

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Fiery chili sauce

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Crema catalana

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Enter Pattern Lab

patternlab.io

Umami Pattern Lab

Search by keyword, ingredient, dish Search

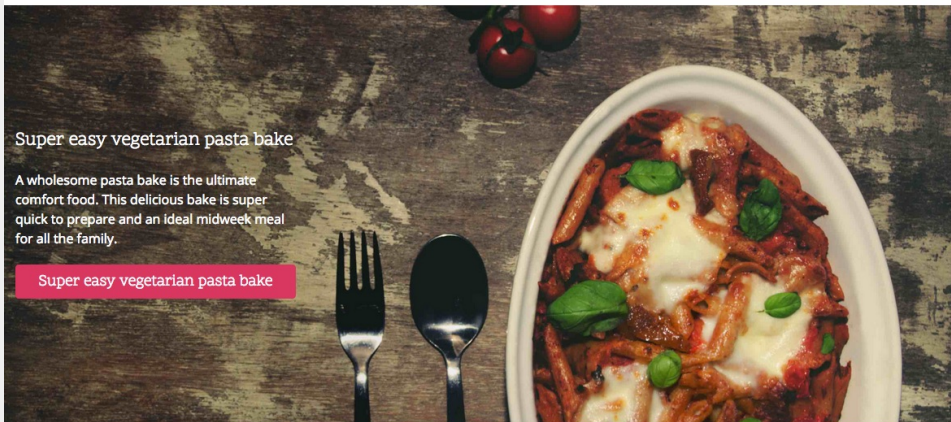
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Fiery chili sauce

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Crema catalana

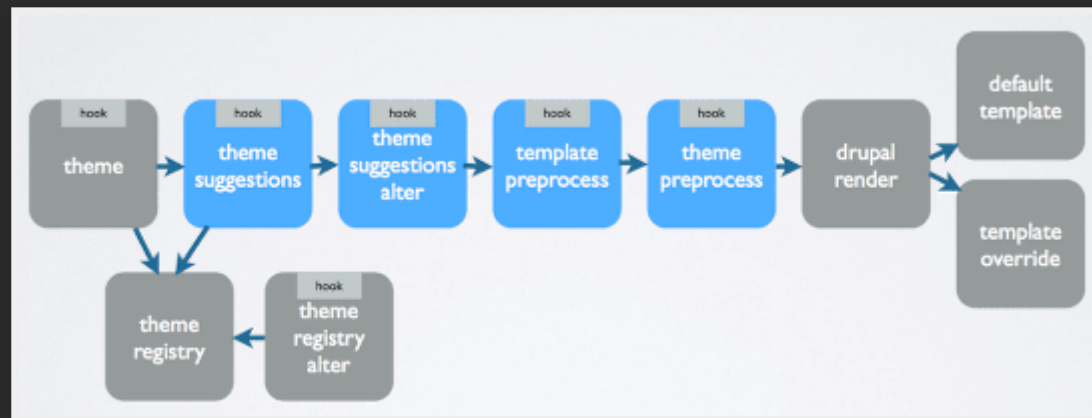
[VIEW RECIPE >](#)

Enter Drupal

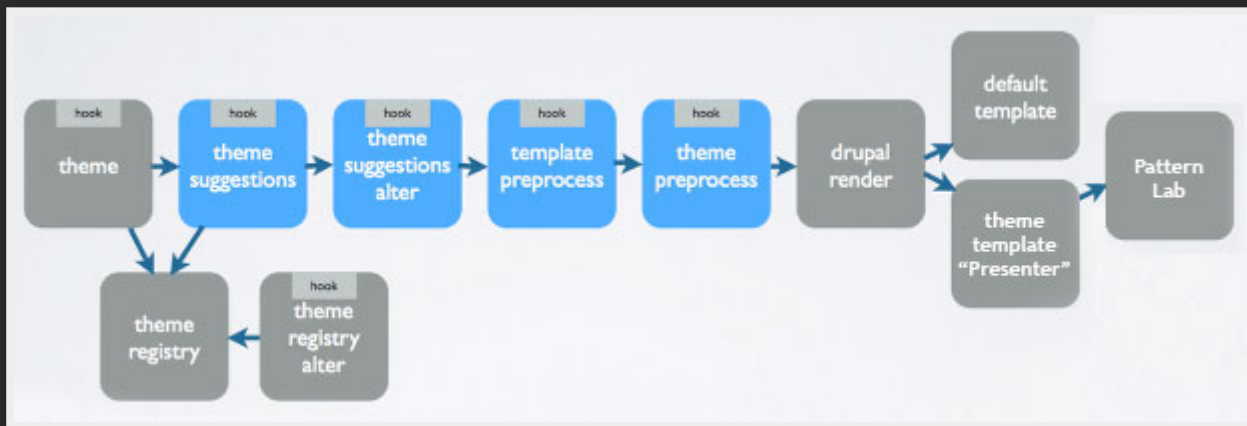
What gets rendered?

- fields
- nodes
- blocks
- views
- forms
- entities (i.e. paragraph bundles)
- layouts
- media

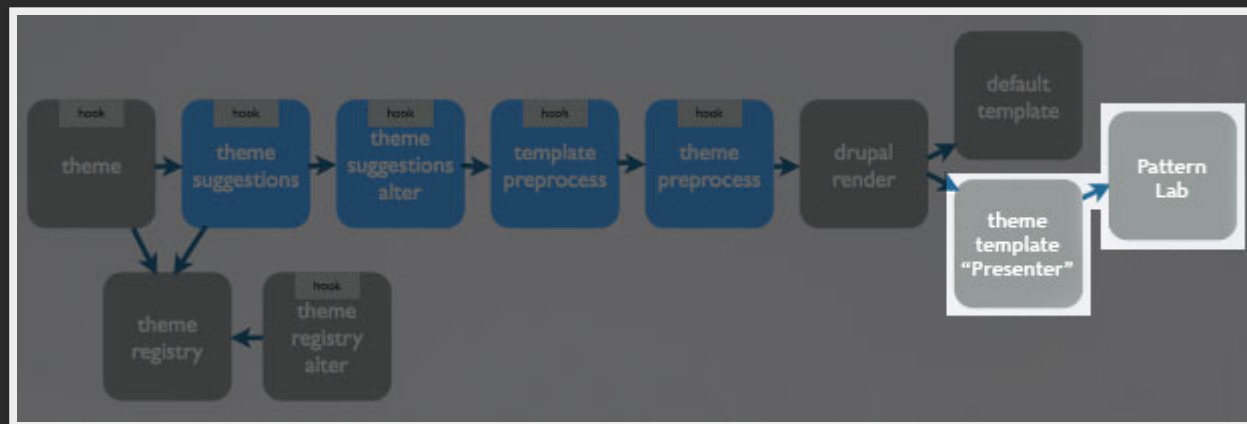
Theme Render Pipeline



Theme Render Pipeline with Pattern Lab



Theme Render Pipeline with Pattern Lab




```
<div class="recipe-banner">
  <div class="recipe-banner__wrapper">
    <div class="recipe-banner__image">
      {{ see next slide }}
    </div>
    <div class="recipe-banner__content">
      <h2 class="recipe-banner__title">{{ banner_title }}</h2>
      <div class="recipe-banner__summary">
        <p>{{ banner_summary }}</p>
      </div>
      <div class="recipe-banner__link">
        <a href="{{ banner_link_url }}" class="button">{{ banner_
      </div>
    </div>
  </div>
</div>
```

```
<div class="recipe-banner__image">
  {% if banner_img_src %}
    {% include "@atoms/04-images/00-image/responsive-image.twig"
      "img_src": banner_img_src,
      "img_alt": banner_img_alt,
      "output_image_tag": banner_image_output_image_tag,
      "responsive_image_base_class": 'image',
    } %}
  {% endif %}
</div>
```

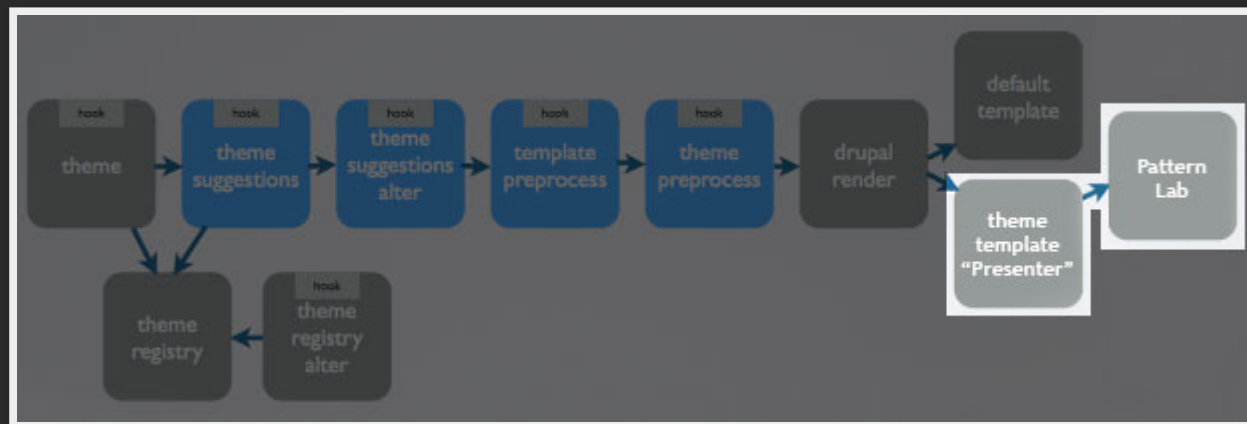
```
{# @see core umami theme template for block--bundle--banner-block
{% set banner_img_src
    = content.field_banner_image.0['#item'].entity.uri.value %}

{% set link = content.field_content_link|field_value[0] %}

{% include "@molecules/recipe-banner/recipe-banner.twig" with {
    "banner_image_output_image_tag": TRUE,
    "banner_img_src": banner_img_src|image_style('scale_crop_7_3_la
    "banner_img_alt": content.field_banner_image.0['#item'].alt,
    "banner_title": content.field_title|field_value,
    "banner_summary": content.field_summary|field_value,
    "banner_link_url": link['#url'],
    "banner_link_text": link['#title']
}%}
}
```

Where do I make my pattern again?

fields · nodes · blocks · views · forms · entities ·
layouts · media ·



Examples

Further Resources and Frontiers

- Drupal Twig Slack: <https://drupaltwig-slack.herokuapp.com>
- Emulsify.info
- Mark Conroy's blog: <https://mark.ie>
- My blog: a-fro.com
- Bolt Design System - PL with webcomponents

Questions?