

PATTERN LIBRARIES & WORDPRESS

Chasing the Holy Grail

ADAM TOMAT

Senior full-stack developer at [Rareloop](#)

OUTLINE

PATTERN LIBRARIES





PATTERN LIBRARIES



“Ensuring a website is consistent and easy to maintain are two of the biggest headaches faced by larger organisations. Fortunately pattern libraries can help.”

“A pattern library documents all of these ‘patterns’ and defines how they behave, what they look like and how they are coded.”

– Paul Boag


“We’re not designing pages, we’re designing systems of components.”

– Stephen Hay

- Design pages, develop pages
- Create a design system, develop pages
- Create a design system, develop a design system

PRIMER

- Runs on PHP
- Supports multiple templating languages, including Twig
- Data is defined for a view as json, and is automatically passed into the view
- Show me one

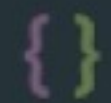
 **patterns**

 **components**

 **headings**

 **page-heading**

 **sass**

 **data.json**

 **template.twig**

```
// template.twig
```

```
<h1 class="page-heading">{{ title }}</h1>
```

```
// data.json
```

```
{  
    "title": "Hello World"  
}
```


WHY CHASE THE
HOLY GRAIL?

“According to legend, it has
special powers and is
designed to provide
happiness, eternal youth and
food in infinite abundance.”

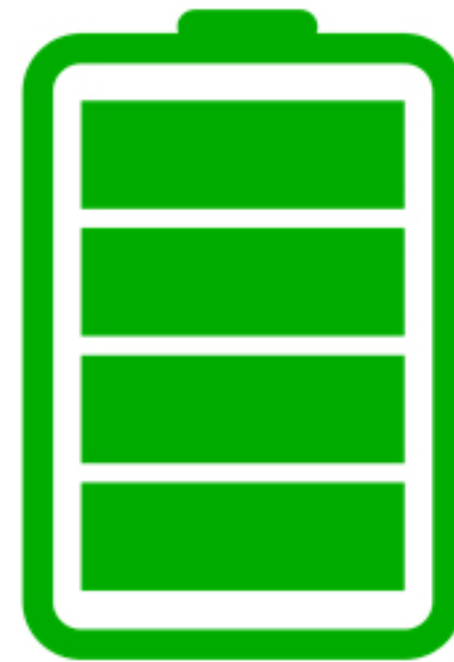
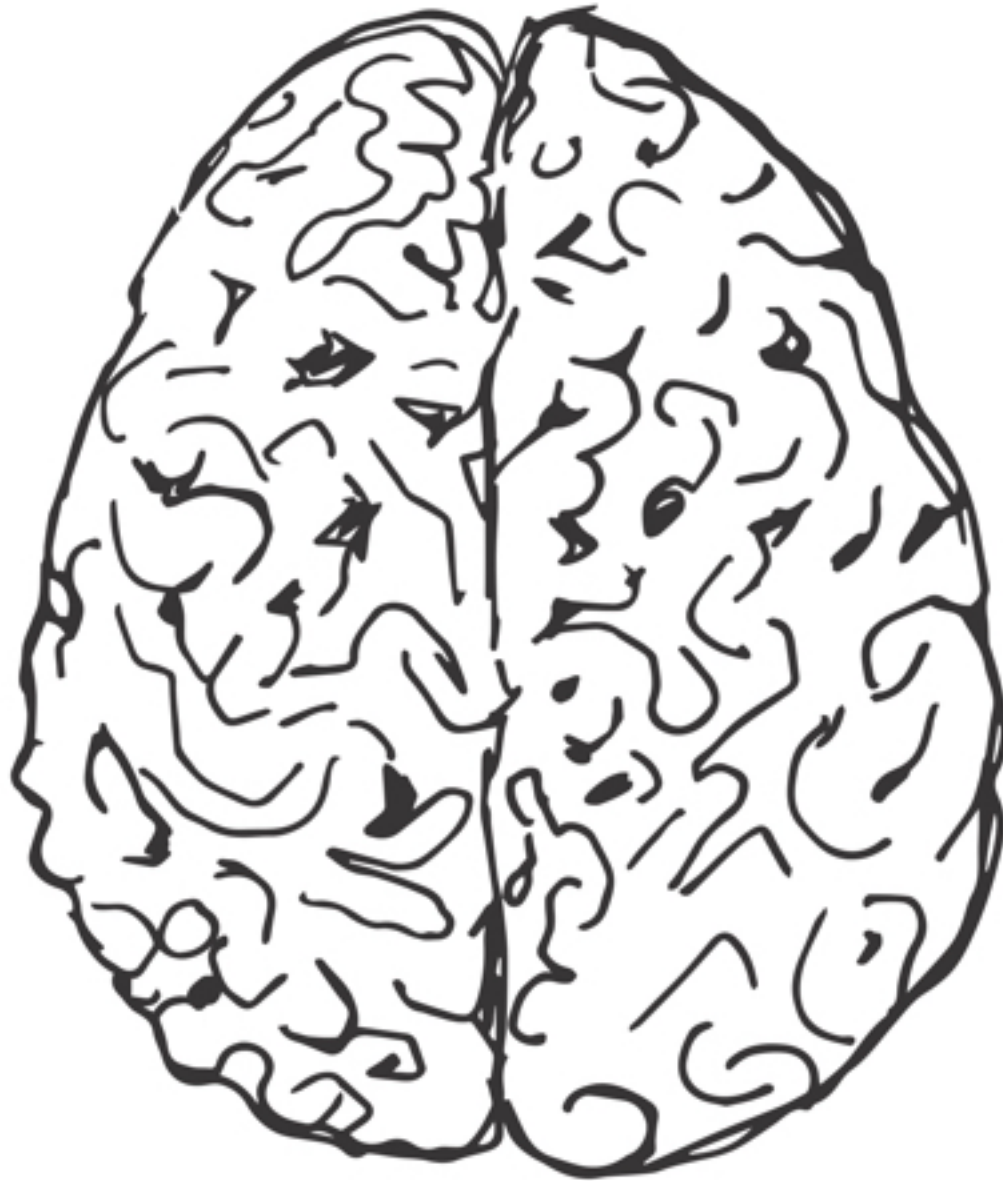
[Wikipedia](#)

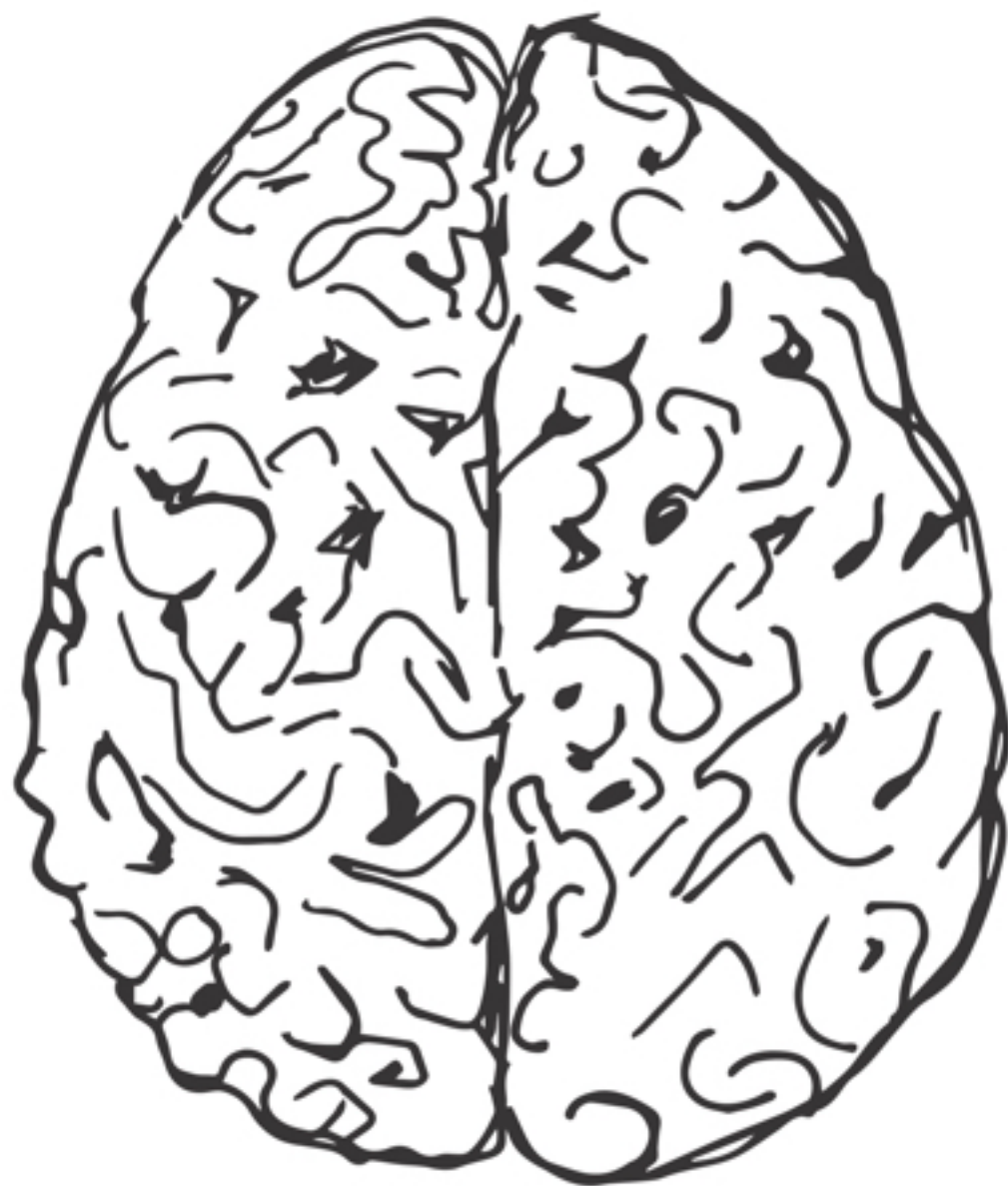
MAKE CHANGE

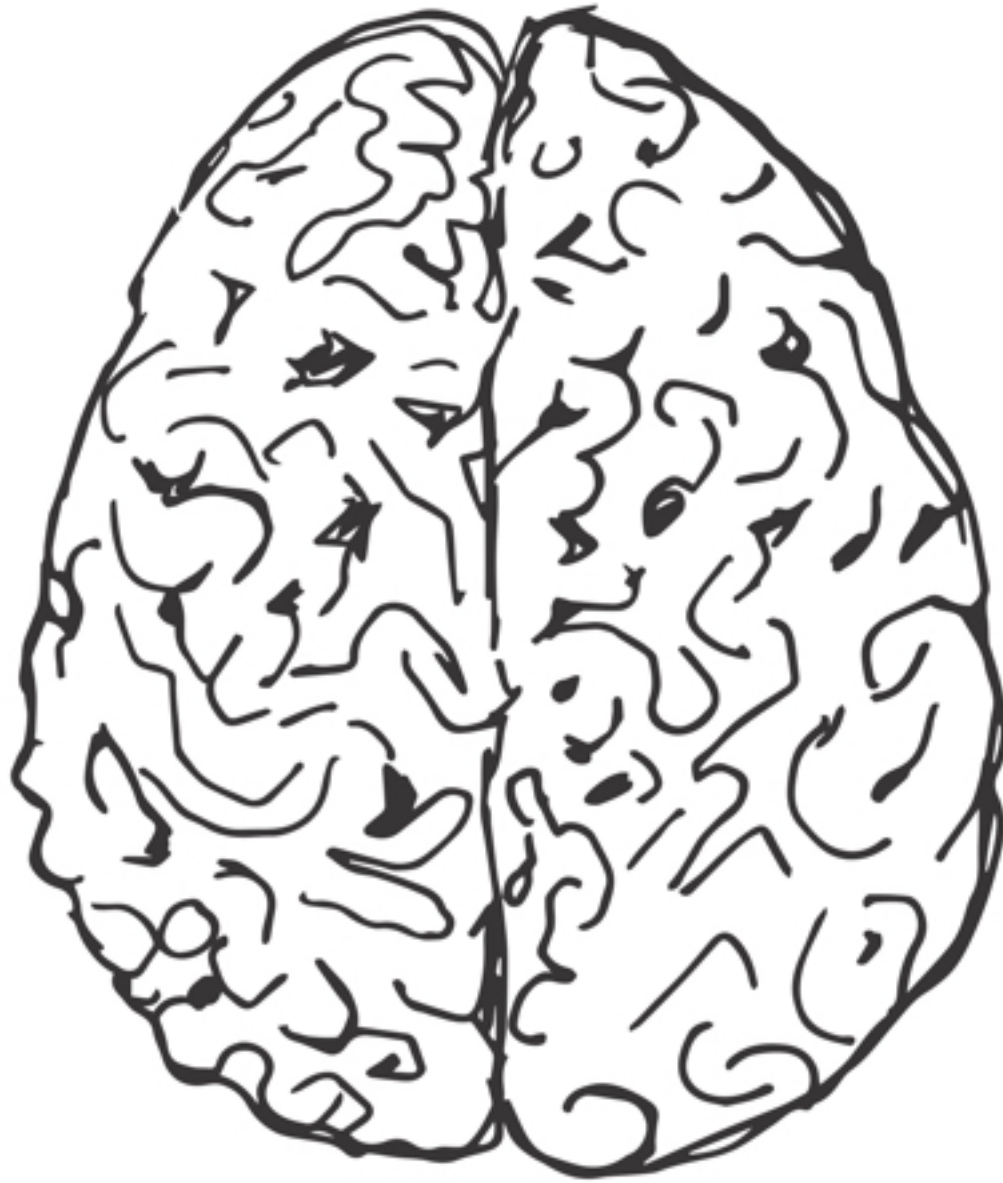
EASIER

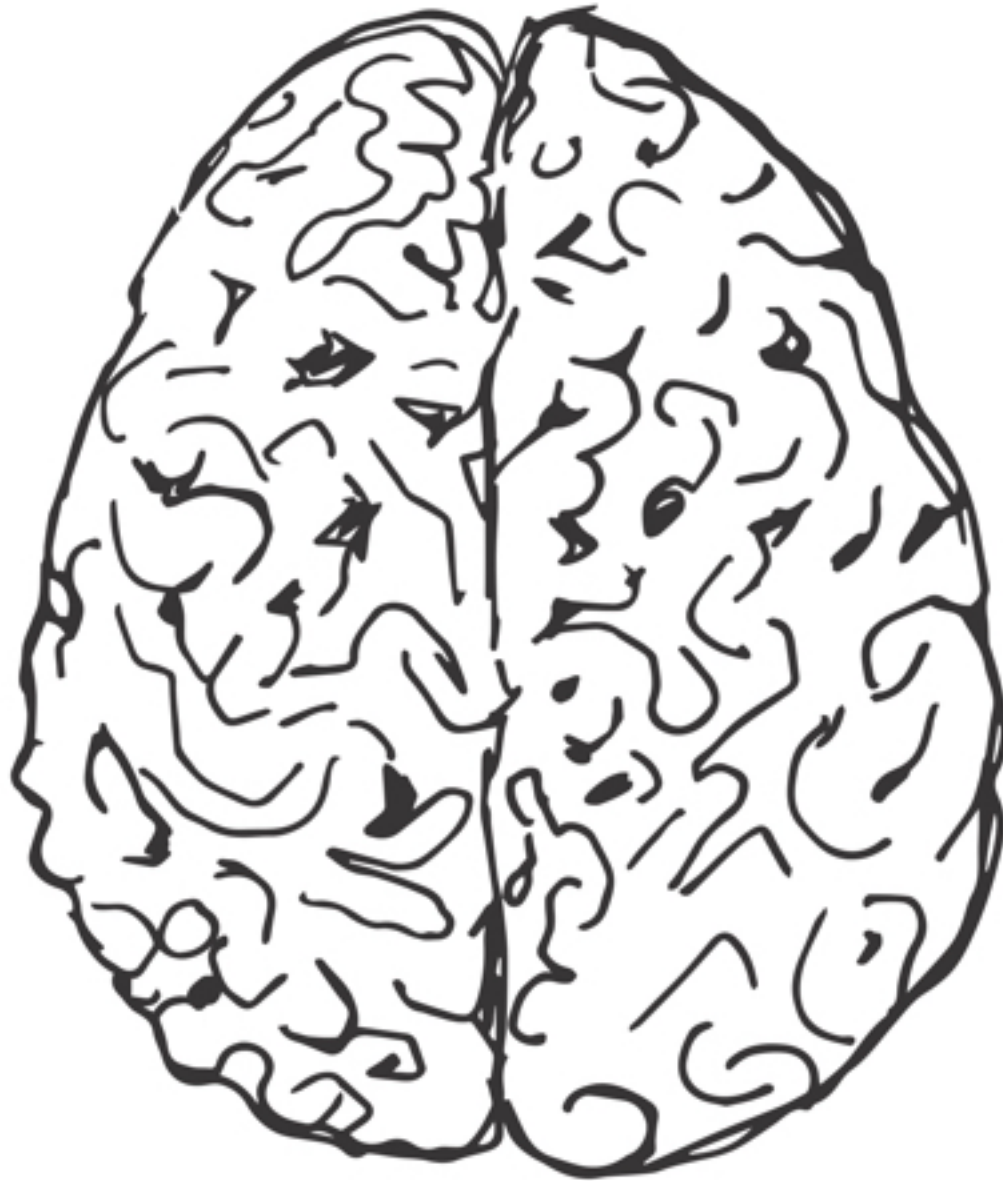
GROUP THINKING

TOGETHER









SWITCHING TASKS IS

HARD

Example



***COMMON CODE
FOUND IN WORDPRESS***

```
<?php if (!empty($mobileNumber) || !empty($phoneNumber)) : ?>
    <div class="contact-details--phone">
        <?php if (!empty($phoneNumber)) : ?>
            <span class="contact-details--phone__item">
                Office: <?php echo $phoneNumber; ?>
            </span>
        <?php endif; ?>

        <?php if (!empty($mobileNumber)) : ?>
            <span class="contact-details--phone__item">
                Mobile: <?php echo $mobileNumber; ?>
            </span>
        <?php endif; ?>
    </div>
<?php endif; ?>
```

```
<div>
    <?php foreach ($managers as $staff) : ?>
        <div class="staff staff--manager">
            <div class="staff__title"><?php echo $staff->name; ?></div>
            <div class="staff__role"><?php echo $staff->role; ?></div>
        </div>
    <?php endforeach; ?>
</div>

<div>
    <?php foreach ($employees as $employee) : ?>
        <div class="staff">
            <div class="staff__title"><?php echo $employee->name; ?></div>
            <div class="staff__role"><?php echo $employee->role; ?></div>
        </div>
    <?php endforeach; ?>
</div>
```

ISOLATE

COMMON COMPONENTS

```
<div>
    <?php
        foreach ($managers as $staff) {
            include('components/staff.php');
        } ?>
</div>
```

```
<div>
    <?php
        foreach ($employees as $staff) {
            include('components/staff.php');
        } ?>
</div>
```

```
<?php $isManager = ($staff->role === 'manager'); ?>
```

```
<div class="staff"<?php echo $isManager ? ' staff--manager' : null; ?>">  
  <div class="staff__title"><?php echo $staff->name; ?></div>  
  <div class="staff__role"><?php echo $staff->role; ?></div>  
</div>
```




LOGIC

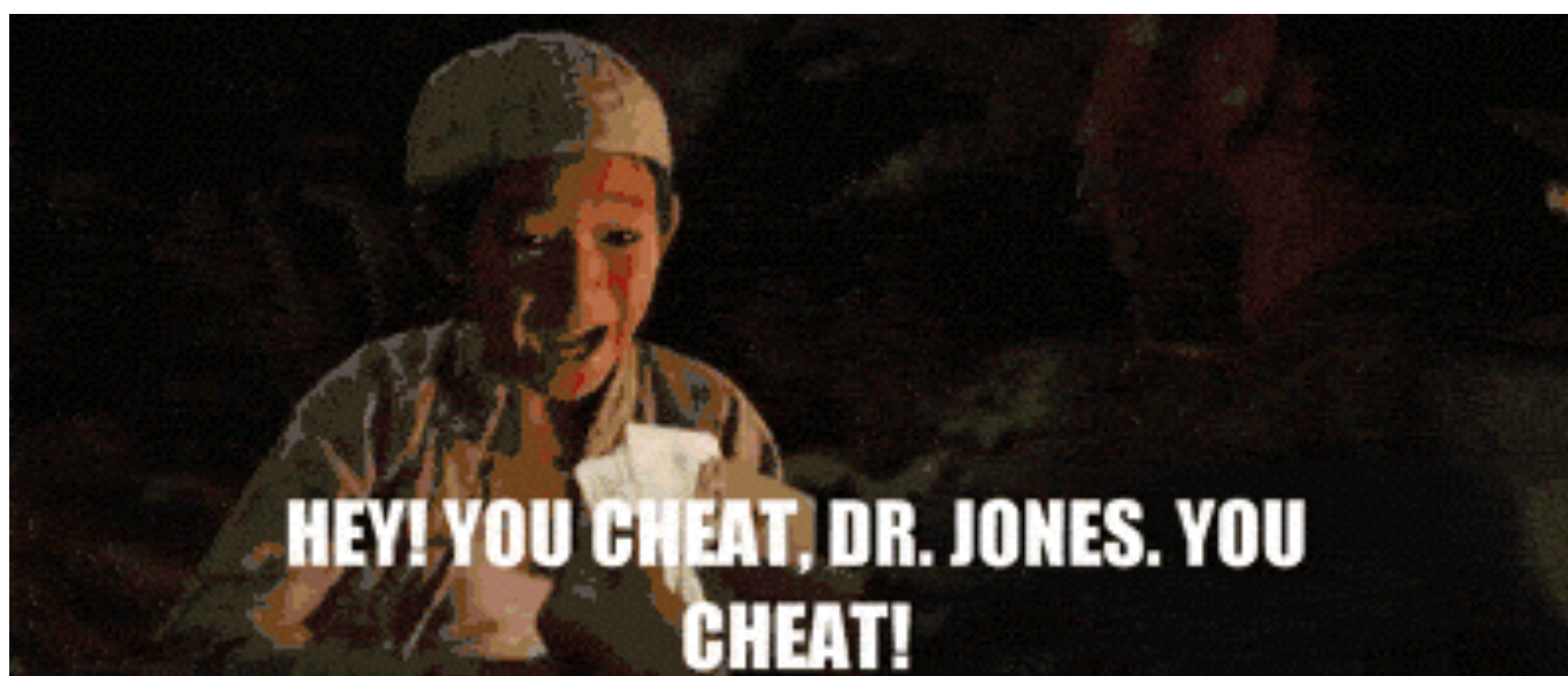
```
<?php
the_content();

// Get child posts
$query = "SELECT * FROM $wpdb->posts
        WHERE post_parent = ".$post->ID."
        AND post_type = 'page'
        ORDER BY menu_order";

$children = $wpdb->get_results($query, "OBJECT");

// If we have results, output each page
if ($children !== false && !empty($children)) { ?>
    <div class="portfolios">
        <div class="row portfolios__group">
            <?php foreach ($children as $childPage) : ?>
                <a class="portfolio__item" href="<?php echo get_permalink($childPage->ID); ?>">
                    <?php echo $childPage->post_title; ?>
                </a>
            <?php } ?>
        </div>
    </div>
<?php } ?>
```

MVC



[All](#)[Videos](#)[Maps](#)[Images](#)[Shopping](#)[More ▾](#)[Search tools](#)

About 148,000,000 results (0.47 seconds)

Shop for timber on Google

**PriceBuster
Decking ...****£2.39**

eDecks Gard...

**Wickes
Treated Timber****£3.99**

Wickes

**Discount
Decking ...****£1.19**

eDecks Gard...

**Timber Stud
Infill x 2100 ...****£5.99**

buildingmater...

**Brown -
Standard ...****£2.57**

eDecks Gard...

**Timber Planed
(T)18mm ...****£29.00**

B&Q

★★★★★ (4)

Sponsored ⓘ

See results about

[Lumber](#)

Lumber is wood that has been processed into beams and p
stage in the process of wood ...

[Timber \(Song by Pitbull\)](#)

Artist: Pitbull

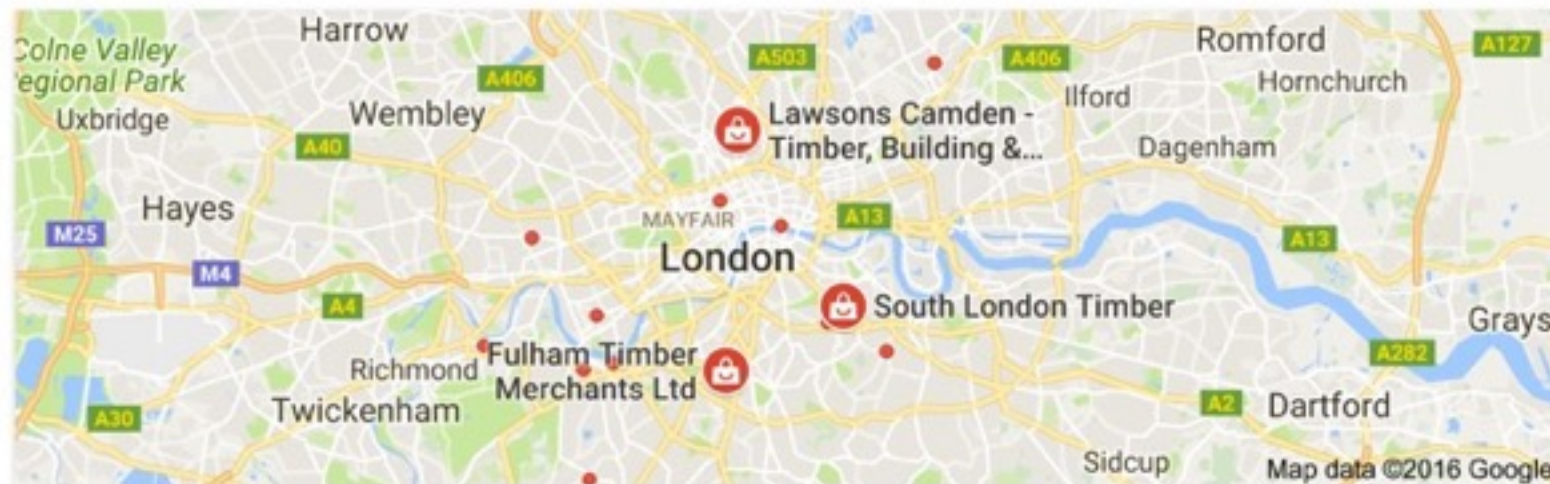
Featured artist: Kesha

Timber - Free Delivery On Orders £50+ - wickes.co.uk

Ad www.wickes.co.uk/ ▾

Wide Range of Sizes & Treatments. Shop Wickes™ Online Now

Types: Constructional Timber, Joinery Timber, Timber Scaffold Boards, Timber Floorboards, Timber F...

📍 **London** - 020 8840 0669 - Open today · 6:00 am – 8:00 pm ▾

Lawsons Camden - Timber, Building & Fencing Supplies

1 review · Building Materials Supplier

Supplier of timber & building materials

53 Blundell St · 020 7619 6470

Opens at 07:00

[WEBSITE](#)[DIRECTIONS](#)

South London Timber

Upstatement

[Work](#) [Jobs](#) [About](#)



“A faster, easier and more powerful way to build themes. Because WordPress is awesome, but the loop isn’t.”

CONTROLLERS

```
<?php
// single.php
$context = Timber::get_context();

$context['foo'] = 'Bar!';
$context['post'] = new Timber\Post();

Timber::render('single.twig', $context);
```

VIEWS

```
{% extends "base.twig" %}
```

```
{% block content %}
```

```
    <h1 class="big-title">{{ foo }}</h1>
```

```
    <h2>{{ post.title }}</h2>
```

```
    
```

```
    <div class="body"> {{ post.content }} </div>
```

```
{% endblock %}
```

```
{% extends "base.twig" %}
```

```
{% block content %}  
    <h1 class="big-title">{{ title }}</h1>  
    <h2>{{ subTitle }}</h2>  
      
    <div class="body"> {{ content }} </div>  
{% endblock %}
```

```
<?php
// 404.php
$context = Timber::get_context();

$context['title'] = 'Page not found!';
$context['subTitle'] = 'Error 404';
$context['image'] = 'some/url/404.jpg';
$context['content'] = 'Oops, cannot find this page :(';

Timber::render('single.twig', $context);
```

YOU DON'T NEED

WORDPRESS

PATTERN LIBRARY

BEST PRACTICES

VIEWS CAN STILL HAVE LOGIC



4 / 10

Our device score

i *Want to know how we came to this score?*

```
{% set colour = 'bad' %}
```

```
{% if score >= 4 and score <= 7 %}
```

```
    {% set colour = 'ok' %}
```

```
{% elseif score >= 8 %}
```

```
    {% set colour = 'good' %}
```

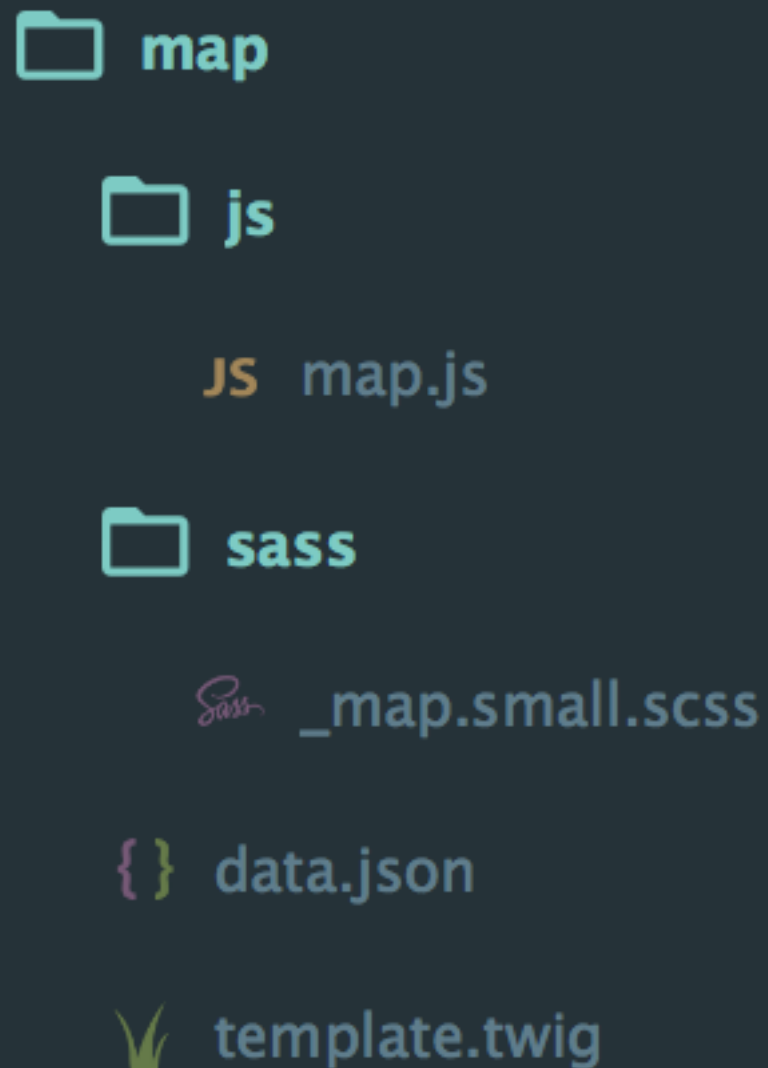
```
{% endif %}
```

```
<div class="score score--{{ colour }}" data-score="{{ score }}">
```

***KNOWING WHEN TO HARD-CODE.
DON'T ABSTRACT EVERYTHING.***

[View example](#)

KEEP YOUR COMPONENT'S SASS AND JS WITH YOUR MARKUP



A file explorer view showing the structure of a component. The root folder is 'map'. Inside 'map', there are three subfolders: 'js', 'sass', and 'data.json'. The 'js' folder contains a file 'map.js'. The 'sass' folder contains a file '_map.small.scss'. The 'data.json' file is at the root level of the component. The 'template.twig' file is also at the root level of the component.

- map
 - js
 - map.js
 - sass
 - _map.small.scss
 - data.json
- template.twig

IT KNOWS NOTHING (ABOUT WORDPRESS)



***SOMETIMES IT'S OKAY
(THAT IT KNOWS ABOUT WORDPRESS)***



MIGRATING PRIMER TO WORDPRESS

```
{% extends 'base.twig' %}
```

```
{% block templateContent %}
```

```
    <div class="slab-blue slab--pad home-banner">
```

```
        <div class="inner">
```

```
            <span class="heading-1">We're Digital Artisans.</span>
```

```
            <span class="home-sub">
```

```
                An expert team, passionate about crafting bespoke websites & apps
```

```
            </span>
```

```
            <a href="{{ link }}">Get to know us</a>
```

```
        </div>
```

```
    </div>
```

```
{% endblock %}
```

```
{
```

```
'link': '/templates/about'
```

```
}
```

```
<?php
// page-home.php
$context = Timber::get_context();

$aboutPage = new Timber/Post(2);
$context['link'] = $aboutPage->link;

Timber::render('home.twig', $context);
```

HOW TO MIGRATE

- Copy across all twig templates
- Copy across assets (minified css/js, images, fonts)
- Implement controller



THE SAME

REPO

THE SAME
TEMPLATES

THE SAME
ASSETS

HOW TO MIGRATE

- ~~Copy across all twig templates~~
- ~~Copy across assets (minified css/js, images, fonts)~~
- Implement controller



OH, YEAH !

QUESTIONS?



WE'RE HIRING

FULL STACK DEVELOPER

- Laravel
- Angular
- WordPress (but optimised)
- Primer
- Cordova
- JavaScript ES2015
- Gulp

WHAT YOU CAN EXPECT

Month 1: You'll work on a number of existing projects, ranging from websites to apps, to backend systems assisting with the development of new features and getting familiar with our coding style. You'll work closely with our other developers, helping to suggest solutions to technical challenges but not be expected to complete these alone.

Month 3: You'll be up to speed with our ongoing and upcoming projects and have gained experience in a range of coding styles. You'll be taking more responsibility for the direction & development of new features, engaging other developers for collaborative input rather than prescriptive instructions. You'll take an active role in studio life, getting involved socially and helping us to build upon our culture.

Month 6: You'll be capable of working autonomously on long running tasks, understanding how your work fits into the larger project. You'll work together with others to complete larger projects but be responsible for the delivery of your part. As an integral part of the team you'll be relied upon to push forward our internal tooling and help to drive our coding standards and conventions.

RESOURCES

- Primer
- Lumberjack
- Timber
- Bedrock