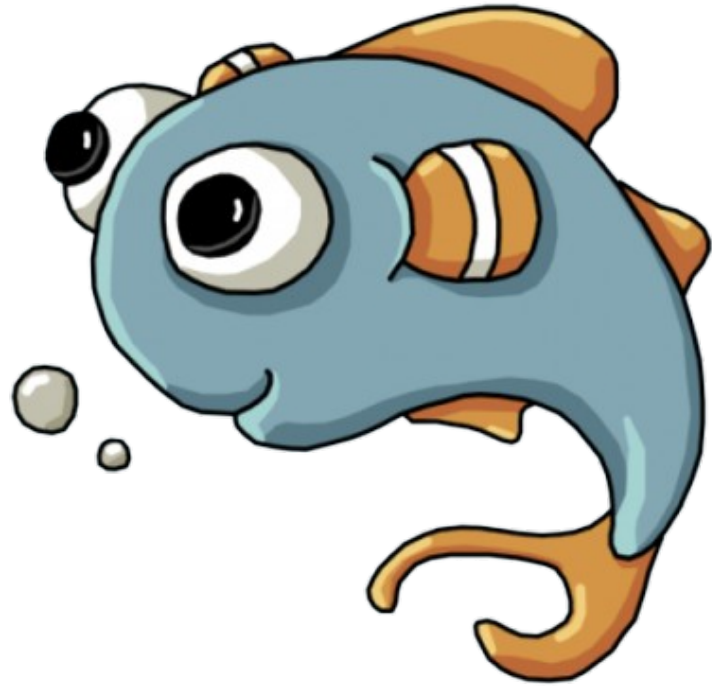


# Building static websites with Sculpin

Oliver Davies





# What is a static website?

```
.htaccess  
assets/images/od-logo.jpg  
bco/index.html  
build/tailwind.css  
call/index.html  
daily/2024/03/18/automated-drupal-11-compatibility-fixes/index.html  
drupal-upgrade/index.html  
favicon.ico  
index.html  
podcast/19-sam-mortenson/index.html  
pricing/index.html  
talks/taking-flight-with-tailwind-css/index.html  
talks/tdd-test-driven-drupal/index.html
```



# What is Sculpin?

- Static site generator.
- Developed by Beau Simensen.
- Maintained by Kevin Boyd (beryllium).
- CLI tool.
- Built on Symfony components.
- Markdown + Twig = Static HTML.



# Why use a static site generator?

- Rapid development.
- Templating.
- Security.
- Performance.
- Easy and cheap to host.
- Fun vs. work.



# What do I use it for?

- My personal website.
- Some client websites.
- HTML prototypes and testing.
- Learning YAML and Twig (and some Symfony).

# Installation

```
composer require sculpin/sculpin
```

```
composer create-project sculpin/blog-skeleton my-blog
```

```
composer create-project opdavies/sculpin-skeleton my-site
```



# Using Sculpin

- Configuration in `app/config`
- Source files in `source`.
  - Templates in `source/_templates` or `source/_layouts`.
  - Includes in `source/_includes` or `source/_partials`.

```
app/  
  config/  
    sculpin_kernel.yml  
    sculpin_site.yml  
composer.json  
composer.lock  
output_dev/  
output_prod/  
source/  
  _includes/  
  _templates/  
  index.md  
vendor/
```



```
app/  
  config/  
    sculpin_kernel.yml  
    sculpin_site.yml  
composer.json  
composer.lock  
output_dev/  
output_prod/  
source/  
  _includes/  
  _templates/  
  index.md  
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```
app/  
  config/  
    sculpin_kernel.yml  
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app/  
  config/  
    sculpin_kernel.yml  
    sculpin_site.yml  
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composer.lock  
output_dev/  
output_prod/  
source/  
  _includes/  
  _templates/  
  index.md  
vendor/
```



# Generate a site

- `vendor/bin/sculpin generate`
- `--server`
- `--watch`
- `--env`

# source/index.md

---

```
layout: default  
title: Hello!
```

---

Hello, World!



# source/index.md

---

```
layout: default  
title: Hello!
```

---

Hello, World!

# source/index.md

---

```
layout: default  
title: Hello!
```

---

Hello, World!

# source/index.md

```
---  
layout: default  
title: Hello!  
---
```

Hello, World!

# source/index.md

```
---  
layout: default  
title: Hello!  
---
```

Hello, World!

# output\_dev/index.html

```
<!DOCTYPE html>
<html>
  <head>
    <title>Hello!</title>
  </head>
  <body>
    <p>Hello, World!</p>
  </body>
</html>
```

# output\_dev/index.html

```
<!DOCTYPE html>
<html>
  <head>
    <title>Hello!</title>
  </head>
  <body>
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<!DOCTYPE html>
<html>
  <head>
    <title>Hello!</title>
  </head>
  <body>
    <p>Hello, World!</p>
  </body>
</html>
```

# Configuration

- Stored in app/config
  - sculpin\_site.yml
  - sculpin\_site\_{env}.yml
- Key-value pairs

---

name: oliverdavies.uk

menu\_links:

- { title: Home, href: / }
- { title: About, href: /about }



# Using on pages

```
<!DOCTYPE html>
<html>
  <head>
    <title>{{ site.name }}</title>
  </head>
</html>
```

# YAML front matter

```
---
```

```
layout: post
```

```
title: New blog post
```

```
draft: yes
```

```
---
```

# YAML front matter

```
---
```

```
layout: post  
title: New blog post  
draft: yes
```

```
---
```

# YAML front matter

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layout: post  
title: New blog post  
draft: yes  
---
```

# YAML front matter

```
---  
layout: post  
title: New blog post  
draft: yes  
---
```



# More front matter

```
---  
layout: post  
title: New blog post  
draft: yes  
tags:  
  - drupal  
  - php  
  - sculpin  
---
```

# Even more front matter

```
---  
layout: post  
title: New blog post  
draft: yes  
tags:  
  - drupal  
  - php  
  - sculpin  
tweets: yes  
foo: bar  
---
```

# Using on pages

---

...

testimonials:

- { name: ..., role: ..., text: ..., url: ... }
- { name: ..., role: ..., text: ..., url: ... }
- { name: ..., role: ..., text: ..., url: ... }

---

```
{% for testimonial in page.testimonials %}
  <h2>{{ testimonial.name }} - {{ testimonial.role }}</h2>
  <p>{{ testimonial.text }}</p>
{% endfor %}
```



# Using on pages

---

...

testimonials:

- { name: ..., role: ..., text: ..., url: ... }
- { name: ..., role: ..., text: ..., url: ... }
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# Using on pages

---

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testimonials:

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# Using on pages

---

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testimonials:

- { name: ..., role: ..., text: ..., url: ... }
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# Using on pages

---

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testimonials:

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- { name: ..., role: ..., text: ..., url: ... }
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{% endfor %}
```

# Using on pages

---

...

testimonials:

- { name: ..., role: ..., text: ..., url: ... }
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---

```
{% for testimonial in page.testimonials %}
  <h2>{{ testimonial.name }} - {{ testimonial.role }}</h2>
  <p>{{ testimonial.text }}</p>
{% endfor %}
```



# Layouts

```
{# source/_layouts/base.html.twig #}
```

```
<!DOCTYPE html>
```

```
<html lang="{{ site.locale|default('en') }}">
```

```
  <head>
```

```
    <title>{{ site.name|default('Sculpin Skeleton') }}</title>
```

```
  </head>
```

```
  <body>
```

```
    {% block body %}{% endblock %}
```

```
  </body>
```

```
</html>
```

# Layouts

```
{# source/_layouts/base.html.twig #}
```

```
<!DOCTYPE html>
```

```
<html lang="{{ site.locale|default('en') }}">
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```
  <head>
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```
    <title>{{ site.name|default('Sculpin Skeleton') }}</title>
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```
  </head>
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```
  <body>
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```
    {% block body %}{% endblock %}
```

```
  </body>
```

```
</html>
```

# Layouts

```
{# source/_layouts/base.html.twig #}
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```
<html lang="{{ site.locale|default('en') }}">
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  <head>
```

```
    <title>{{ site.name|default('Sculpin Skeleton') }}</title>
```

```
  </head>
```

```
  <body>
```

```
    {% block body %}{% endblock %}
```

```
  </body>
```

```
</html>
```



# Layouts

```
{# source/_layouts/page.html.twig #}
```

```
{% extends 'base' %}
```

```
{% block body %}
```

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

```
{% endblock %}
```

# Layouts

```
{# source/_layouts/page.html.twig #}  
  
{% extends 'base' %}  
  
{% block body %}  
    {% block content %}{% endblock %}  
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# Layouts

```
{# source/_layouts/page.html.twig #}
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```
{% extends 'base' %}
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```
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```
    {% block content %}{% endblock %}
```

```
{% endblock %}
```

# Layouts

```
{# source/_layouts/page.html.twig #}  
  
{% extends 'base' %}  
  
{% block body %}  
    {% block content %}{% endblock %}  
{% endblock %}
```

# Includes

```
{% include 'about-author' with {  
    avatar: site.avatar,  
    work: site.work,  
} only %}
```

```
{% for link in links %}  
    {% include 'menu-link' with { link } only %}  
{% endfor %}
```

# Content types

```
# app/config/sculpin_kernel.yml

sculpin_content_types:
  daily_emails:
    permalink: daily/:slug_title/
```



# Accessing custom content types

```
---  
title: My Daily Email Archive  
layout: default  
use:  
  - daily_email  
---  
  
{% for email in data.daily_emails %}  
  <p>{{ email.title }}</p>  
{% endfor %}
```

# Accessing custom content types

```
---  
title: My Daily Email Archive  
layout: default  
use:  
  - daily_email  
---  
  
{% for email in data.daily_emails %}  
  <p>{{ email.title }}</p>  
{% endfor %}
```



# Accessing custom content types

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---  
title: My Daily Email Archive  
layout: default  
use:  
  - daily_email  
---  
  
{% for email in data.daily_emails %}  
  <p>{{ email.title }}</p>  
{% endfor %}
```

**Making things more dynamic**

```
{{ 'today' }}
```

```
{{ 'today' | date }}
```

```
{{ 'today' | date('Y') }}
```

```
{{ 'today' | date('Y') - 2007 }} # 18 (years of experience)
```



```
{{ 'today' }}
```

```
{{ 'today' | date }}
```

```
{{ 'today' | date('Y') }}
```

```
{{ 'today' | date('Y') - 2007 }} # 18 (years of experience)
```



```
{{ 'today' }}
```

```
{{ 'today' | date }}
```

```
{{ 'today' | date('Y') }}
```

```
{{ 'today' | date('Y') - 2007 }} # 18 (years of experience)
```



```
{{ 'today' }}
```

```
{{ 'today' | date }}
```

```
{{ 'today' | date('Y') }}
```

```
{{ 'today' | date('Y') - 2007 }} # 18 (years of experience)
```

---

title: Daily Email Archive

use: [daily\_emails]

---

This is an archive of the `{{ data.daily_emails|length }}` email messages I have sent to my daily email list since the 12th of August, 2022.

This is an archive of the 775 email messages I have sent to my daily email list since the 12th of August, 2022.



---

title: Building Static Websites with Sculpin

events:

- name: PHP Berkshire

date: 2024-08-28

location: Reading, UK

url: <https://www.meetup.com/php-berkshire/events/301850284>

- name: BrumPHP

date: 2024-05-23

location: Birmingham, UK

url: <https://www.eventbrite.com/e/brumphp-23rd-may-2024-tickets-803037766577>

---



```
{% set talkCount = 0 %}  
  
{% for talk in data.talks %}  
  {% for event in talk.events if 'today'|date('U') >= event.date|date('U') %}  
    {% set talkCount = talkCount + 1 %}  
  {% endfor %}  
{% endfor %}
```

<p>I have given {{ talkCount }} talks.</p>

```
{% set talkCount = 0 %}
```

```
{% for talk in data.talks %}
```

```
  {% for event in talk.events if 'today'|date('U') >= event.date|date('U') %}
```

```
    {% set talkCount = talkCount + 1 %}
```

```
  {% endfor %}
```

```
{% endfor %}
```

```
<p>I have given {{ talkCount }} talks.</p>
```

```
{% set talkCount = 0 %}
```

```
{% for talk in data.talks %}
```

```
  {% for event in talk.events if 'today'|date('U') >= event.date|date('U') %}
```

```
    {% set talkCount = talkCount + 1 %}
```

```
  {% endfor %}
```

```
{% endfor %}
```

```
<p>I have given {{ talkCount }} talks.</p>
```



```
{% set talkCount = 0 %}
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{% for talk in data.talks %}
```

```
  {% for event in talk.events if 'today'|date('U') >= event.date|date('U') %}
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        {% set talkCount = talkCount + 1 %}  
    {% endfor %}  
{% endfor %}
```

<p>I have given {{ talkCount }} talks.</p>

```
{% set talks = site.talks|filter(talk => talk.speaker == page.name) %}

{% if talks is not empty %}
  <section>
    <h2>Talks by {{ page.name }}</h2>

    <div>
      <ul>
        {% for talk in talks %}
          <li><a href="#0">{{ talk.title }}</a></li>
        {% endfor %}
      </ul>
    </div>
  </section>
{% endif %}
```

```
{% set talks = site.talks|filter(talk => talk.speaker == page.name) %}

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    </div>
  </section>
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```

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  <section>
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    <div>
      <ul>
        {% for talk in talks %}
          <li><a href="#0">{{ talk.title }}</a></li>
        {% endfor %}
      </ul>
    </div>
  </section>
{% endif %}
```

**Demo**

# Extending Sculpin

```
# app/config/sculpin_kernel.yml

...

services:
    App\TwigExtension\TalkExtension:
        tags:
            - { name: twig.extension }
```


opdavies/sculpin-twig-markd...  
https://packagist.org/packages/opdavies/sculpin-twig-markdown-bundle

Packagist The PHP Package Repository  
Composer 2 is available! Browse Submit Create account Sign In

Search packages...

# opdavies/sculpin-twig-markdown-bundle

composer require opdavies/sculpin-twig-markdown-bundle

Maintainers  
  
Details  
[github.com/opdavies/sculpin-twig-ma...](#)  
[Source](#)  
[Issues](#)

Installs: 3 852  
Dependents: 0  
Suggesters: 0  
Security: 0  
Stars: 0  
Watchers: 1  
Forks: 0  
Open Issues: 3

0.2.0 2019-11-11 15:04 UTC

<b>requires</b> <ul style="list-style-type: none"><li>php: &gt;=5.3.3</li></ul>	<b>requires (dev)</b> <p>None</p>	<b>suggests</b> <ul style="list-style-type: none"><li>sculpin/sculpin: @stable</li></ul>
<b>provides</b> <p>None</p>	<b>conflicts</b> <p>None</p>	<b>replaces</b> <p>None</p>

dev-master  
0.2.0  
0.1.1  
0.1.0  
dev-add-tests

This package is auto-updated.  
Last update: 2021-08-28 14:05:28 UTC

© MIT da9b055a1981419a0e7d5b5e8e1de517d1d9d91e  
Oliver Davies <oliver@oliverdavies.uk>  
#twig #markdown #sculpin

```
// app/SculpinKernel.php

use Opdavies\Sculpin\Bundle\TwigMarkdownBundle\SculpinTwigMarkdownBundle;
use Sculpin\Bundle\SculpinBundle\HttpKernel\AbstractKernel;

final class SculpinKernel extends AbstractKernel
{
    protected function getAdditionalSculpinBundles(): array
    {
        return [
            SculpinTwigMarkdownBundle::class,
        ];
    }
}
```

# Thanks!

## References:

- <https://sculpin.io>
- <https://github.com/sculpin/sculpin>
- <https://code.oliverdavies.uk/opdavies/sculpin-demo>
- <https://code.oliverdavies.uk/opdavies/oliverdavies.uk>

## Me:

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