

Hello, OKTech.jp

An Introduction,
and some things you might find useful

Hello everyone.

My name is Chris, and I like to make websites.

When I came to Osaka earlier this year, I didn't know anyone.

So I went to an OWDDM event and I met some cool people.

I really appreciate having an anchor to the real world – a human connection with other tech people.

It's one of the reasons I decided to stay in Osaka, and why I volunteered to help out.

Thank You, Martin, being the pillar that allows this Meetup and it's Community to exist.

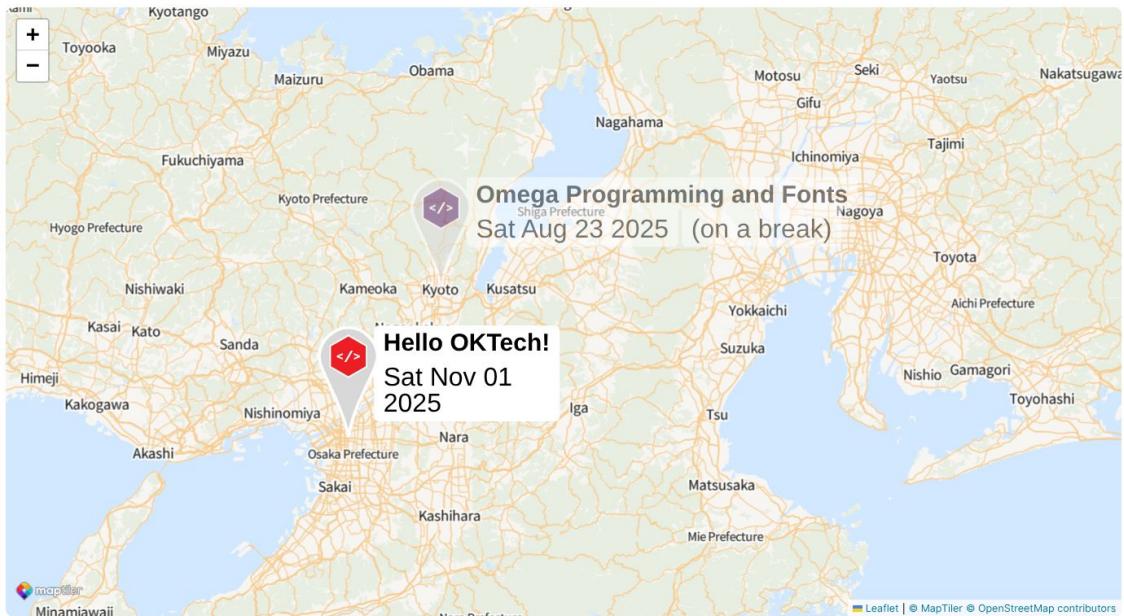
please clap

In this presentation, I thought it might be interesting to show you the new OKTech website, and some things I learned while making it.

Let's get cracking.

Goodbye, **owddm.com**

Before we say Hello,



Copyright © 2025 OSAKA/KYOTO WEB DESIGNERS AND WEB DEVELOPERS MEETUP - [CODE OF CONDUCT](#)

let's say goodbye. to owddm.com

we will miss you

may your eternal soul live on in the internet archive.

Let Designers Design & Developers Develop

As you may know, OWDDM stood for Osaka Web **Designers and Developers** Meetup.

I wanted to start by recognising the importance of non-developers – both in this community, and in tech projects in general.

We developers often can't help but think about the nitty gritty technical implementation.

So when it comes to design, we're always thinking about what's **technically** easy, or **technically** fancy, rather than what's purely the best design.

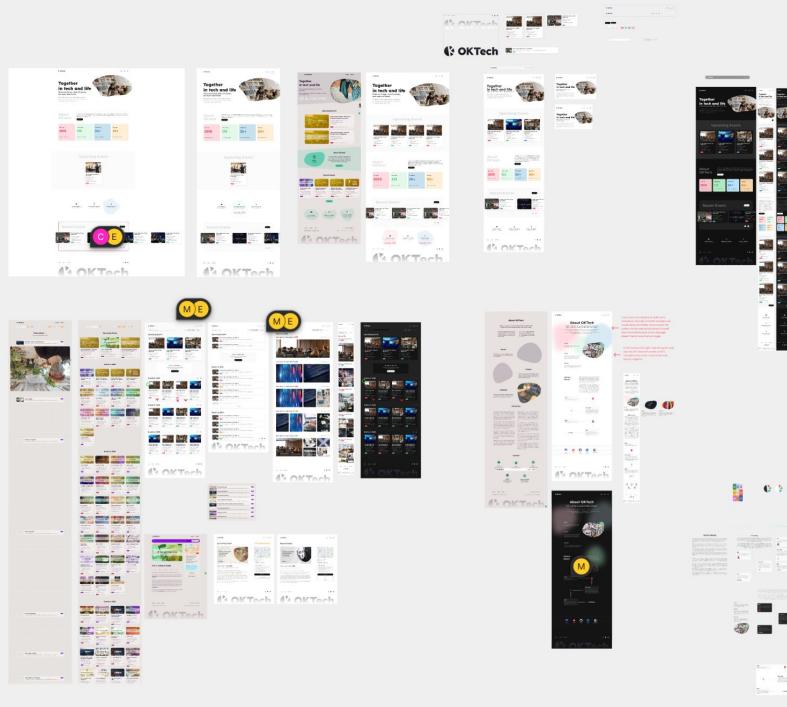
That's why developers need non-developers, to guide us with their fresh perspectives.



Evey

Lucky for OKTech.jp, a designer stepped forward and volunteered to help.

This is Evey, and, up until today, I only knew her by this avatar on discord.



Evey spent many hours mocking up and finessing designs for the new website in Figma.

Let's zoom in a bit.

OKTech

Together in tech and life

Build cool things, share life hacks, and meet kind minds.

2K+ Members Kaisai's largest foreign Technology Group

Web Development | Programming | Design | Hardware | Frontend | Backend | AI | Networking | DevOps | Security | Physics

Upcoming Events

Docker Deep Dive Docker Deep Dive

Feb 24, 2025 • Saturday
13:30PM to 16:45PM
大鹏新区大鹏办事处西涌村7号
Kingspace Kaisai

Docker Deep Dive Docker Deep Dive

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Web Development | Programming | Design | Hardware | AI | Frontend | Backend | Fullstack | DevOps | Security | Networking | Physics

Upcoming Events

Autumn Adventure in Uji

Sunday, October 26, 2025
10:00 AM to 3:00 PM (5 hours)
Yahen Uji Shisan

Hello OKTech!

Saturday, November 1, 2025
6:30 PM to 9:30 PM (3 hours)
Mae Coffee Roaster

Elephant Cupping Experience Part 2: Breaking It

Starts in 23 days

Here's the new OKTech landing page.

On the left, Evey's design in Figma.

On the right, my attempt to convert it to HTML and CSS.

The new landing page is quite different from OWDDM, isn't it?

Instead of a clinical map of events, visitors are first presented with what OKTech is really about – human connection.

Welcoming, friendly, real people. Together, in Tech and Life.

About OKTech

A volunteer, non-profit group organizing monthly meetups in the Kansai region of Japan. We invite people from all walks of web-life and encourage members to present topics they enjoy. Join us for technical workshops, study sessions, and social gatherings in Osaka and Kyoto.

[Learn More ↗](#)

First Event
2015

Started our journey

Total Events
172

Events and counting

Participants
2K+

Community members

Speakers
85+

Expert voices shared

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[Learn More ↗](#)

First Event
2014

Started our Journey

Total Events
149

Events and counting

Venues
51+

Places we've met

Participants
2K+

Community members

Recent Events

[All Events ↗](#)

Docker Deep Dive Docker Deep Dive
Feb 19, 2023 - Saturday
10:00 AM to 12:00 PM
〒 〒550-0050 大阪府大阪市北区梅田1丁目1番1号
[View Details](#)

Docker Deep Dive Docker Deep Dive
Feb 19, 2023 - Saturday
10:00 AM to 12:00 PM
〒 〒550-0050 大阪府大阪市北区梅田1丁目1番1号
[View Details](#)

Docker Deep Dive Docker Deep Dive
Feb 24, 2023 - Sunday
10:00 AM to 12:00 PM
〒 〒550-0050 大阪府大阪市北区梅田1丁目1番1号
[View Details](#)

Study Session / Elephant Corral to Exercise Part 1...
Sunday, October 16, 2022
10:00 AM to 12:00 PM (2 hours)
〒 〒550-0050 大阪府大阪市北区梅田1丁目1番1号
[View Details](#)

OKTech Study Session - Breaking Boundaries with...
Sunday, October 23, 2022
10:00 AM to 12:00 PM (2 hours)
〒 〒550-0050 大阪府大阪市北区梅田1丁目1番1号
[View Details](#)

Fear in the Software Engineering
Sunday, September 25, 2022
10:00 AM to 12:00 PM (2 hours)
〒 〒550-0050 大阪府大阪市北区梅田1丁目1番1号
[View Details](#)

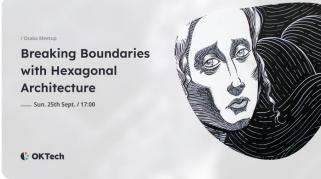
OKTech Study Session - Elephants 3: Putting the...
Sunday, September 24, 2022
10:00 AM to 12:00 PM (2 hours)
〒 〒550-0050 大阪府大阪市北区梅田1丁目1番1号
[View Details](#)

Omega Programming and Forum
Sunday, August 27, 2023
10:00 AM to 12:00 PM (2 hours)
〒 〒550-0050 大阪府大阪市北区梅田1丁目1番1号
[View Details](#)

Scrolling down the landing page, and OKTech's proof-by-numbers is showcased.

OKTech

Recent Events



i Studio Meeting

Breaking Boundaries with Hexagonal Architecture

— Sun. 25th Sept. / 17:00



Fear & Coding in Osaka Speaker

Community, Psychology, Stress Management, Web Design, Workospace

Summer break - in case you had one - is over and the heat is still on! 😅

This month we have two talks about how tech is going. Sacha will be talking about [State of HTML](#), and the things he learned about how HTML developers are doing these days.

And in our thular presentation, Martin will be exploring an aspect rarely reflected upon when talking about tech: Emotion, specifically "fears". Over the years, he had many difficult situation and only now learned what they have in common. He will discuss fears such as "What if my code is breaking something?", "What if I can't make the deadline?", "What if my family hates me for staying up late?", and more! (→ [Discord Thread](#))

On a side note: This is going to be the last OWODOM Meetup. Our name will change next month. [Join our Discord](#) and next meetup for more about it.



i Studio Meeting

Hello OKTech!

Sat. 1st Nov. / 18:30



Community Building, Computer Programming, Logo Design, Web Development

OK... What? 🤔 Solve the riddle! We celebrate **OK... Tech!** 🤔

Join us for the first official **OKTech** Osaka Meetup! We are ditching our super-long name for something easier to remember that gives more flexibility to do things. New name, New Logo, New Homepage!

Come and celebrate with us! 🎉

Each event has its own beautiful page, with clearly laid out details.

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We welcome people from all backgrounds and encourage members to share topics they're passionate about.

Join us in Osaka and Kyoto for technical workshops, study sessions, and social gatherings.

オーケーテックは、関西地域で毎月開催される技術系ミートアップを運営するボランティアによる非営利団体で、誰でも参加可能であり、発表や交流を通じて学び合える場を提供しています。

Attend

The first step is to come to an OKTech event. Learn about exciting technologies, and maybe make some like-minded friends!



Present

If you have a topic you're passionate about, why not share it with others? Presenting at an OKTech event gives you the chance to improve your speaking skills, grow your presence, and help others learn.

Volunteer

OKTech relies on volunteers to keep things running. If you would like to help organize, have ideas to help us grow, or just want to get involved, let us know!

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We have the most interactive and engaging About page I've had the pleasure of building.

Design - SP / 990px

OKTech Event About

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2K+ Members Kaisai's largest foreign Technology Group

- Web Development
- Programming
- Design
- Hardware
- Frontend | Backend
- AI
- Networking
- DevOps
- Security
- Picnics

Design - PC / 1440px / Events -Grid

OKTech Event About

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Design - SP / 360px / Events -Grid

OKTech Event About

All Location | Search Events... Q

Grid List **Gallery** Newest ▼

Events in 2025

Docker Deep Drive Osaka

Feb 24, 2025 • Saturday

Not only do we have multiple page layouts,

But Evey also took the time to implement responsive design variants for mobile.

Design - SP / 393px

 OKTech

[Event](#) [About](#)

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[Web Development](#) [Programming](#) [Design](#)
[Hardware](#) [Frontend | Backend](#) [AI](#)
[Networking](#) [DevOps](#) [Security](#) [Picnics](#)



...

Design - SP / 393px

 OKTech

[Event](#) [About](#)

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[Networking](#) [DevOps](#) [Security](#) [Picnics](#)



...

And perhaps most importantly, she provided themes for both light and dark mode!



Evey

So please, let's thanks Evey for her VERY hard work designing OKTech.jp!

Thank you Evey.

And a shout out also to Karim and Martin again for your continued input during the buildout, and of course, the Logo Crew.

Please Visit OKTech.jp

The best way to show your appreciation would be to visit the website.



Join the Discord

Chat with our community



Subscribe to Calendar

Never miss an event



Make a Presentation

Share your ideas

While you're there, I ask that you Subscribe to the Calendar feed.

If you click this button,

Subscribe to OKTech Events

X

📅 Calendar Feed (ICS)

<https://oktech.jp/oktech-events.ics>



↑ Add this link to Outlook, iCal, Google Calendar, or any calendar app that supports ICS feeds.

RSS Feed (XML)

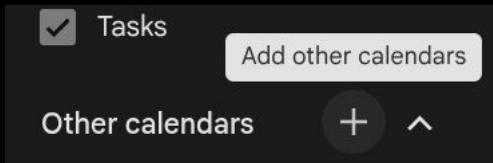
<https://oktech.jp/rss.xml>



↑ If you remember what RSS is, you know what to do.

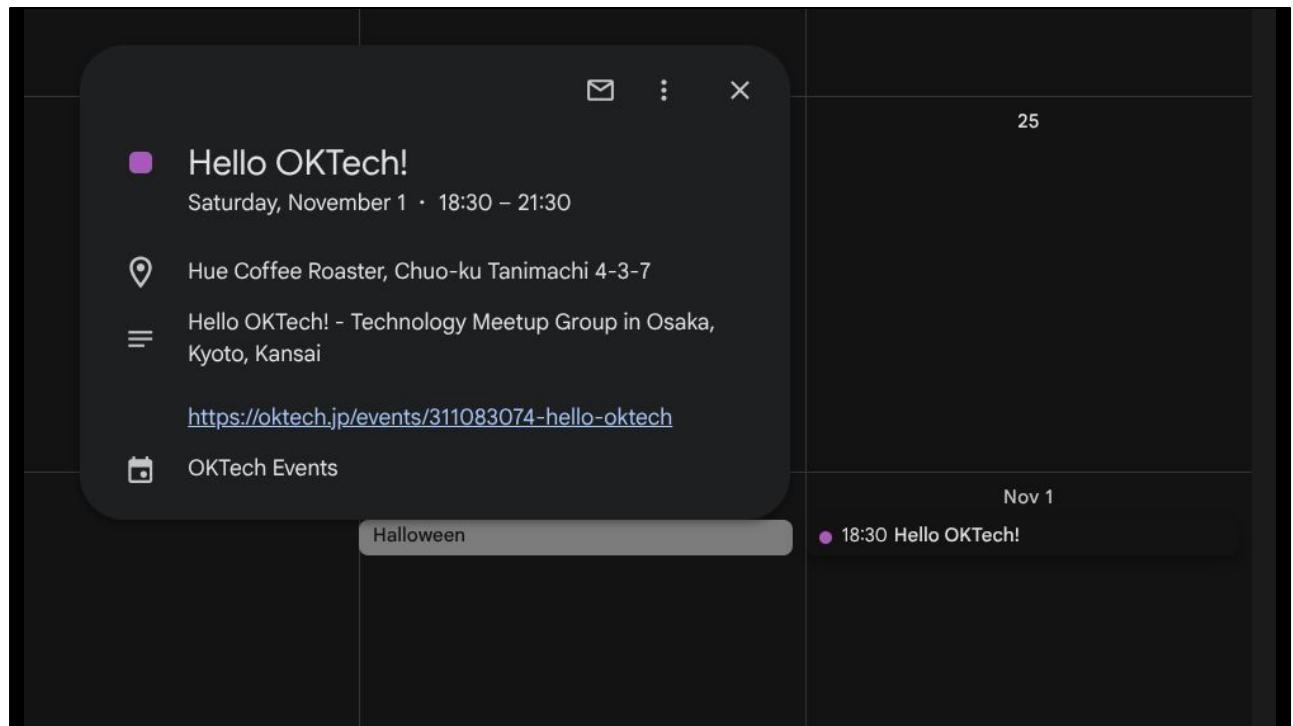
Close

You will be shown a URL that you can copy and paste into your favourite calendar app.



- Subscribe to calendar
- Create new calendar
- Browse calendars of interest
- From URL
- Import

Here's how you do it on Google Calendar.



And from then on, you'll automatically get updates about the latest OKTech events right in your calendar.

Many of us rely on [Meetup.com](#), which is doing a fine job right now, but who knows what might happen in the future.

It's best to get updates straight from the source.

OKTech, Let's Tackle Tech Together!

Now,

No OKTech event would be complete without a bit of nerding out over technology.

So here is a collection of random tips, tricks and things I learned while making
[OKTech.jp](#).

package.json is your friend

The Web Devs probably already know this one,

But if you happen to stumble upon a JavaScript project in the wild,

a good way to understand what it's doing is to take a peek inside

package.json

The screenshot shows a GitHub repository page for the user 'oktech.jp'. The repository is named 'oktech.jp'. The 'Code' tab is selected. The repository has 9 commits, with the most recent being 'Create OKTech Website' by 'b46deab' yesterday. The repository is public and has 1 star, 1 watching, and 1 fork. The repository details on the right include an 'About' section for 'OKTech Website', a 'Languages' section showing TypeScript (91.1%), Astro (6.6%), and CSS (2.3%), and a 'Report repository' link.

Code Issues Pull requests Actions Projects Security Insights Settings

oktech.jp Public

main Go to file Code

kurisu-dotto-komu Show cancelled status in I... b46deab - yesterday 9 Commits

File	Message	Time
.devcontainer	Create OKTech Website	4 days ago
.github/workflows	Create OKTech Website	4 days ago
content	Hiking Cancelled	yesterday
scripts	Mobile gallery styling, update todos	2 days ago
src	Show cancelled status in ICS feed	yesterday
test	Create OKTech Website	4 days ago
.env.local.example	Create OKTech Website	4 days ago
.gitignore	Create OKTech Website	4 days ago
README.md	Create OKTech Website	4 days ago
TODO.md	Mobile gallery styling, update todos	2 days ago
astro.config.ts	Refactor the astro URL config logic	3 days ago
knip.config.ts	Create OKTech Website	4 days ago
package-lock.json	Create OKTech Website	4 days ago
package.json	Create OKTech Website	4 days ago

About

OKTech Website

oktech.jp

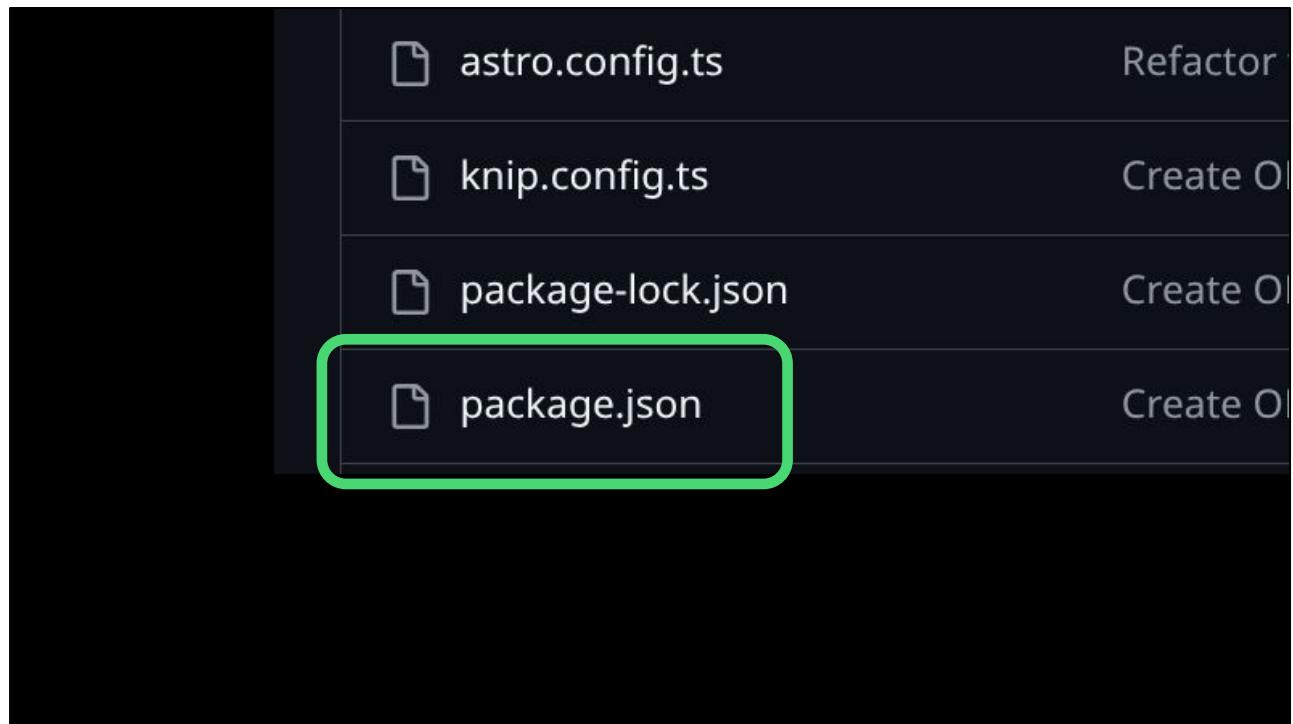
- Readme
- Activity
- Custom properties
- 1 star
- 1 watching
- 1 fork

Report repository

Languages

TypeScript 91.1% Astro 6.6% CSS 2.3%

Here's the [OKTech](#) website Github Repo - it's open source of course.



And if you scroll down the list of files and and you'll see a **package.json**

```
"name": "oktech-web",
"type": "module",
"version": "0.0.1",
"scripts": {
  "dev": "astro dev --host",
  "build": "astro build",
  "preview": "astro preview --host",
  "start": "npm run build && npm run preview",
  "checks": "npm-run-all format typecheck knip",
  "import": "tsx ./scripts/import-data",
  "analyze-bundle": "ANALYZE_BUNDLE=true astro build && e2e",
  "test": "playwright test"
}.
```

Inside that file, is a ‘scripts’ section, which will give you some clues as to what’s going on.

You can run any of these with `npm run`, `build` for example.

We got “dev” and “preview”, also using something called `astro`, and some other useful commands like “analyze-bundle”.

```
  },
  "devDependencies": {
    "@playwright/test": "^1.56.1",
    "@react-spring/web": "^10.0.3",
    "@tailwindcss/typography": "^0.5.19",
    "@tailwindcss/vite": "^4.1.15",
    "astro": "^5.14.7",
    "daisyui": "^5.3.7",
    "fuse.js": "^7.1.0",
    "osm-static-maps": "^4.0.2",
    "puppeteer": "^24.25.0",
    "react": "^19.2.0",
    "tailwindcss": "^4.1.15",
    "typescript": "^5.9.3",
    "yet-another-react-lightbox": "^3.25.0"
  }
```

There's also a "dependencies" section.

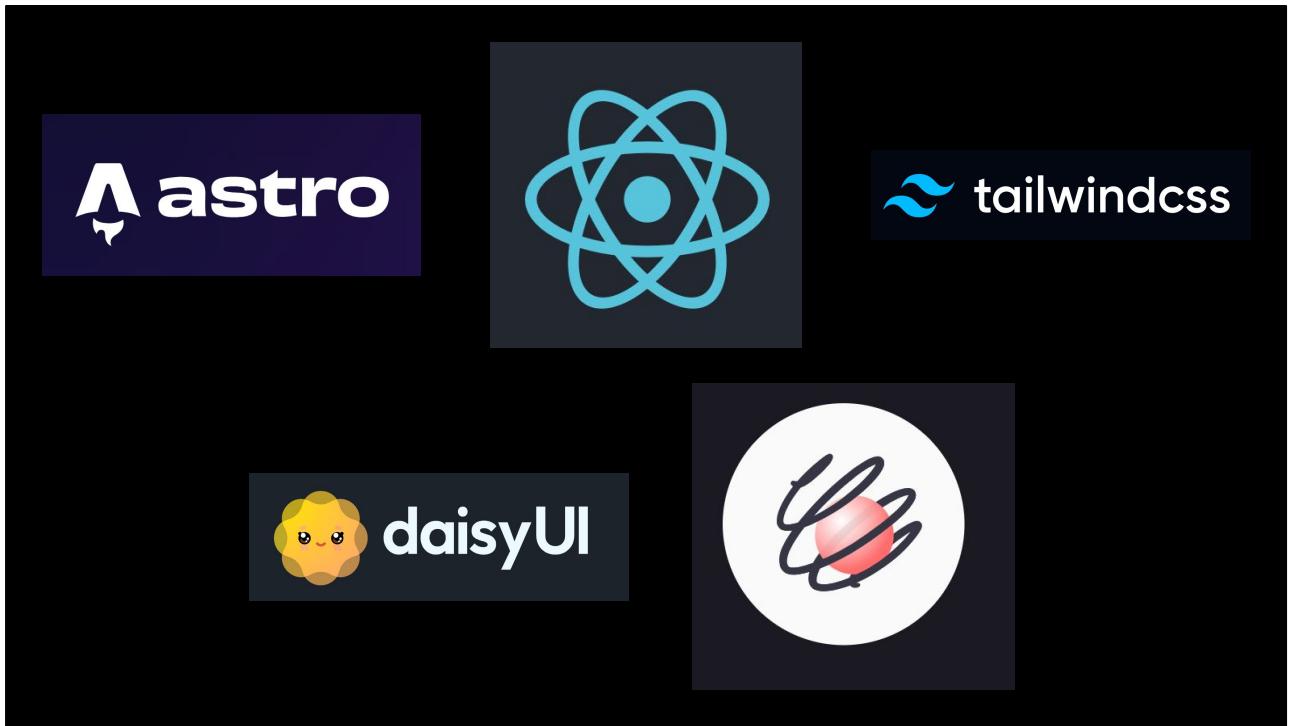
These are the third party libraries used by the project.

You can see Astro again.

Typescript, React, and Tailwind might be familiar.

Has anyone heard of Daisy UI?

How about React-spring?



That's right, the presence of these libraries give you a good picture of how this project works.

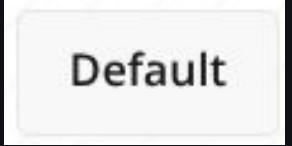
Astro is the foundation,
React for presentation,
Tailwind and Daisy decoration,
And React Spring does animation

Finally, **Daisy UI** is OK Tech

Since we were *just* talking about design, let's start with a closer look at Daisy UI

```
<button
  class="px-4 py-2 bg-gray-600 hover:bg-gray-700 text-black font-semibold rounded-lg shadow-md
  focus:outline-none focus:ring-2 focus:ring-gray-400 focus:ring-offset-2 transition"
>
  Default
</button>
```

```
<button class="btn">Default</button>
```

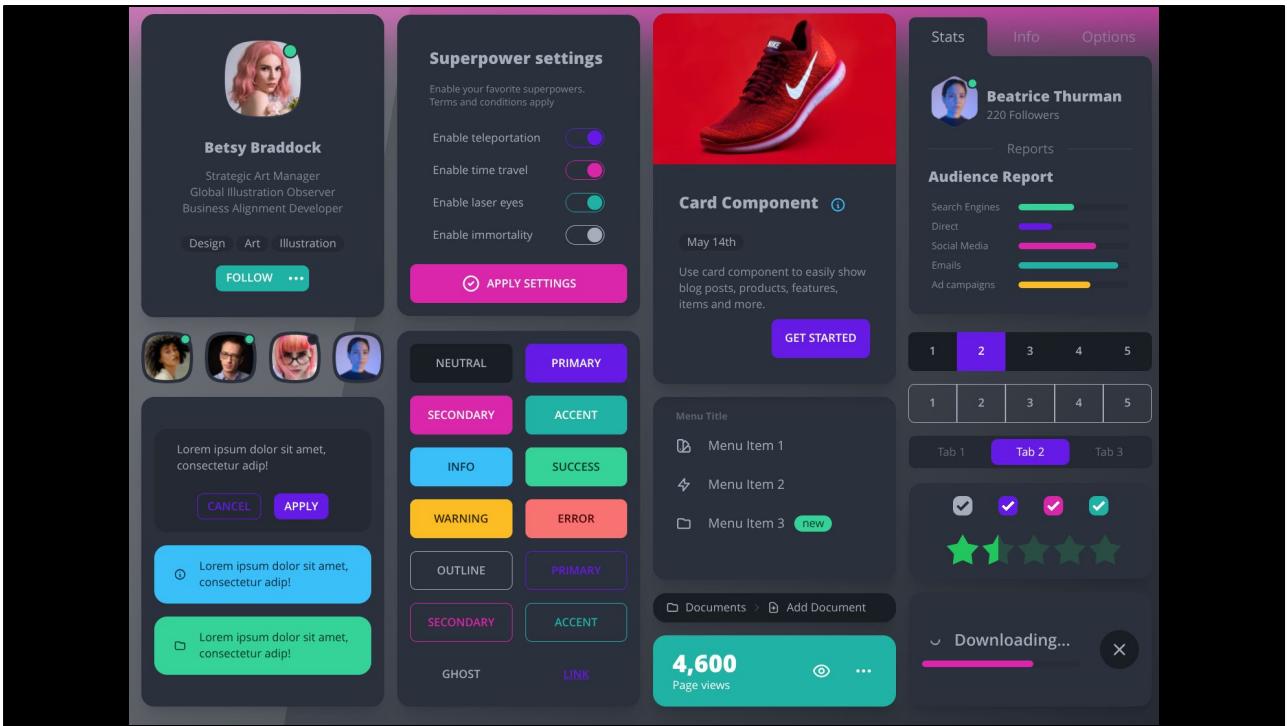


Default

Daisy is the most popular free and open-source component library for the Tailwind CSS framework.

The basic idea is that it provides pre-made classes and components that don't come with base Tailwind.

For example, instead of composing a bunch of classes yourself to construct a button, you can just write `btn`.

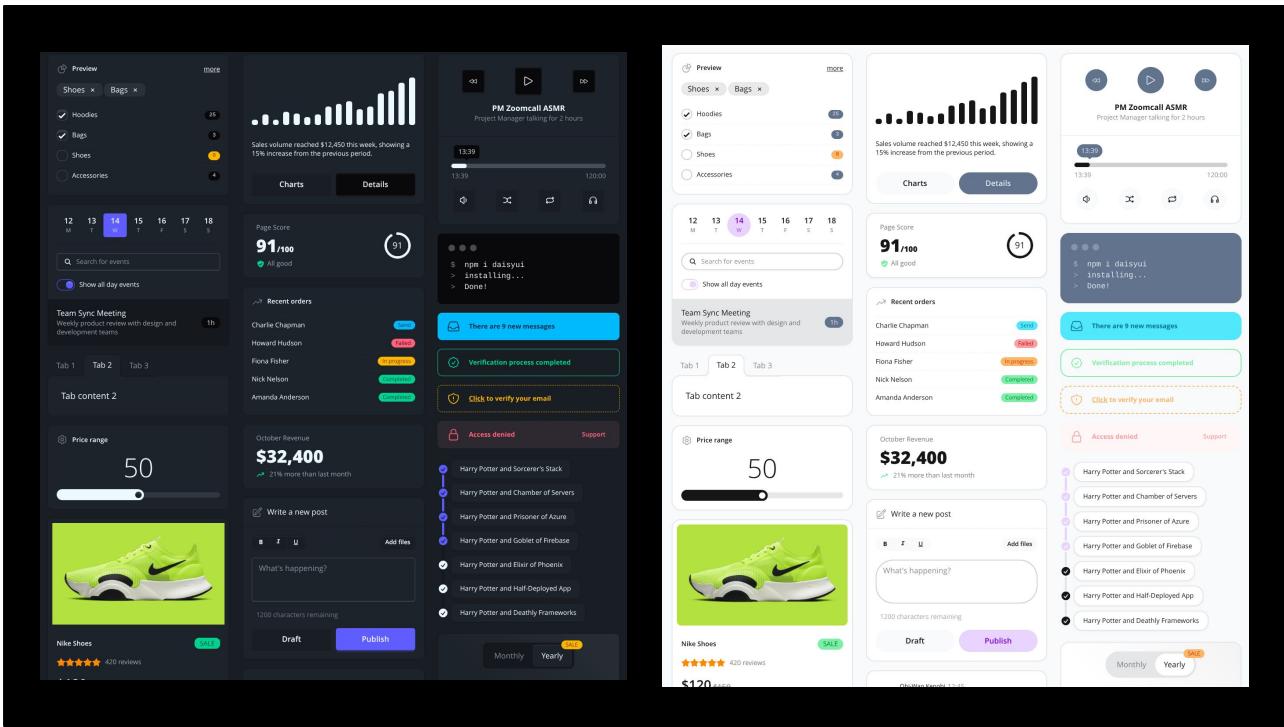


A few years ago I evaluated Daisy v3 in a project, and it was a pretty nice developer experience.

But to be frank, it was a little bit ugly.

Anyway, I thought I'd give it another chance for OKTech.jp

And with a bit of good timing, it turns out a new version of Daisy had just come out earlier this year.



This is Daisy v5. Looking much more modern now.

All these components, and more, are provided.

Things like modals and popovers normally require custom logic in React, but Daisy handles this for you in native CSS.

With Daisy, you can cover, like, 90% of common interactions, saving you time to focus on other stuff.

Since Daisy is built on top of Tailwind, you can also easily tweak components if they aren't perfect, by adding Tailwind classes.

Bright

GRayscale

0	100	200	300	400	500	600	700	800	900
#FFFFFF	#F0F0F0	#E0E0E0	#D0D0D0	#C0C0C0	#B0B0B0	#A0A0A0	#909090	#808080	#707070

LOGO COLORS

R	G	B	K	M	E
#FF0000	#00FF00	#0000FF	#000000	#FF0000	#000000

SUPPORT COLORS

R/B/G	G/B/G	B/B/G	Q/B/G	LIGHT YELLOW	ORANGE	VIOLET	INDIGO	TEAL
#FFC0E0	#C0E0F0	#B0E0F0	#A0E0F0	#FFEB3B	#FFC080	#90C9F0	#80C9F0	#70C9F0

Bright/Greyscale

base-900	base-800	base-700	base-600	base-500	base-400	base-300	base-200	base-100	base-0
#111111	#333333	#555555	#777777	#999999	#B0B0B0	#D0D0D0	#E0E0E0	#F0F0F0	#FFFFFF

Dark/Greyscale

base-900	base-800	base-700	base-600	base-500	base-400	base-300	base-200	base-100	base-0
#A9A9A9	#A1A1A1	#A3A3A3	#A5A5A5	#A7A7A7	#A9A9A9	#A1A1A1	#A3A3A3	#A5A5A5	#A7A7A7

Bright/Colour

Brand / LOGO R	Brand / LOGO G	Brand / LOGO B	Brand / LOGO Orange	Brand / LOGO Light Orange	Brand / LOGO Green	Brand / LOGO Blue	Brand / LOGO Teal	Brand / LOGO Yellow	Brand / LOGO Light Yellow
#F00000	#00FF00	#0000FF	#FF8000	#FFDAB9	#00A9F0	#0070C9	#008080	#FF0080	#FFDAB9

Dark/Colour

Brand / LOGO R	Brand / LOGO G	Brand / LOGO B	Brand / LOGO Orange	Brand / LOGO Light Orange	Brand / LOGO Green	Brand / LOGO Blue	Brand / LOGO Teal	Brand / LOGO Yellow	Brand / LOGO Light Yellow
#F00000	#00FF00	#0000FF	#FF8000	#FFDAB9	#00A9F0	#0070C9	#008080	#FF0080	#FFDAB9

Dark

GRayscale

0	100	200	300	400	500	600	700	800	900
#FFFFFF	#F0F0F0	#E0E0E0	#D0D0D0	#C0C0C0	#B0B0B0	#A0A0A0	#909090	#808080	#707070

LOGO COLORS

R	G	B	K	
#FF0000	#00FF00	#0000FF	#000000	#FF0000

SUPPORT COLORS

R/B/G	G/B/G	B/B/G	Q/B/G	LIGHT YELLOW	ORANGE	VIOLET	INDIGO	TEAL
#FFC0E0	#C0E0F0	#B0E0F0	#A0E0F0	#FFEB3B	#FFC080	#90C9F0	#80C9F0	#70C9F0

Bright/Greyscale

base-100	base-200	base-300	base-400	base-500	base-600	base-700	base-800	base-900	base-0
#F0F0F0	#E0E0E0	#D0D0D0	#C0C0C0	#B0B0B0	#A0A0A0	#909090	#808080	#707070	#606060

Dark/Greyscale

base-100	base-200	base-300	base-400	base-500	base-600	base-700	base-800	base-900	base-0
#A9A9A9	#A1A1A1	#A3A3A3	#A5A5A5	#A7A7A7	#A9A9A9	#A1A1A1	#A3A3A3	#A5A5A5	#A7A7A7

Bright/Colour

Light Blue	Light Yellow	Light Orange	Light Teal	Light Purple	Light Red	Light Green	Light Teal	Light Orange	Light Yellow
#00A9F0	#FF0080	#FFDAB9	#008080	#FF0080	#F00000	#00FF00	#008080	#FF0080	#FFDAB9

Dark/Colour

Light Blue	Light Yellow	Light Orange	Light Teal	Light Purple	Light Red	Light Green	Light Teal	Light Orange	Light Yellow
#00A9F0	#FF0080	#FFDAB9	#008080	#FF0080	#F00000	#00FF00	#008080	#FF0080	#FFDAB9

Moreover, Daisy has a robust theme system that integrates with Tailwind.

To create a custom OKTech theme, the color palettes provided by Evey could be simply copy and pasted into Daisy's config.

```

@plugin "daisyui/theme" {
  name: "light";
  default: true;
  prefersdark: false;
  color-scheme: "light";

  /* additional base colors */
  --color-base-0: rgb(255, 255, 255); /* FFFFFF */
  --color-base-100: rgb(250, 250, 250); /* FAFAFA */
  --color-base-200: rgb(224, 224, 224); /* E0E0E0 */
  --color-base-300: rgb(214, 214, 214); /* D6D6D6 */
  --color-base-400: rgb(184, 184, 184); /* B8B8B8 */
  --color-base-500: rgb(146, 146, 146); /* 929292 */
  --color-base-600: rgb(110, 110, 110); /* 6E6E6E */
  --color-base-700: rgb(75, 75, 75); /* 4B4B4B */
  --color-base-800: rgb(43, 43, 43); /* 2B2B2B */
  --color-base-900: rgb(17, 17, 17); /* 111111 */

  /* also, map primary, secondary, accent */
  --color-primary: var(--logo-blue-light);
  --color-primary-content: var(--logo-blue);
  --color-secondary: var(--logo-green-light);
  --color-secondary-content: var(--logo-green);
  --color-accent: var(--logo-red-light);
  --color-accent-content: var(--logo-red);
}

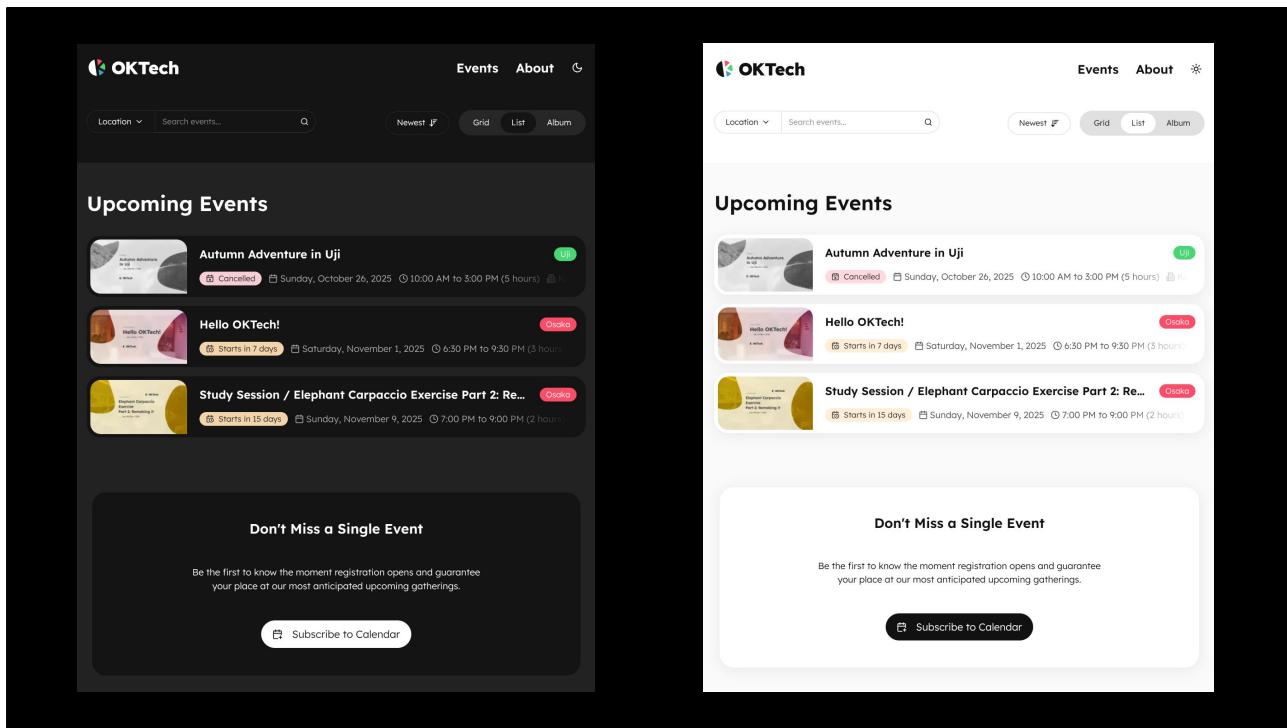
@plugin "daisyui/theme" {
  name: "dark";
  default: false;
  prefersdark: true;
  color-scheme: "dark";

  --color-base-0: rgb(20, 20, 20); /* 141414 */
  --color-base-100: rgb(34, 34, 34); /* 222222 */
  --color-base-200: rgb(39, 39, 39); /* 272727 */
  --color-base-300: rgb(43, 43, 43); /* 2B2B2B */
  --color-base-400: rgb(79, 79, 79); /* 4F4F4F */
  --color-base-500: rgb(112, 112, 112); /* 707070 */
  --color-base-600: rgb(115, 115, 115); /* 737373 */
  --color-base-700: rgb(173, 173, 173); /* ADBDBD */
  --color-base-800: rgb(241, 241, 241); /* 2B2B2B */
  --color-base-900: rgb(255, 255, 255); /* 111111 */
}

```

Defining CSS variables would either create new utility classes, like `text-base-800`

...or would override existing variables, and become magically integrated into the Daisy component library



Upcoming Events

-  **Autumn Adventure in Uji** Upcoming
Cancelled Sunday, October 26, 2025 10:00 AM to 3:00 PM (5 hours)
-  **Hello OKTech!** Upcoming
Starts in 7 days Saturday, November 1, 2025 6:30 PM to 9:30 PM (3 hours)
-  **Study Session / Elephant Carpaccio Exercise Part 2: Re...** Upcoming
Starts in 15 days Sunday, November 9, 2025 7:00 PM to 9:00 PM (2 hours)

Don't Miss a Single Event

Be the first to know the moment registration opens and guarantee your place at our most anticipated upcoming gatherings.

 [Subscribe to Calendar](#)

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 [Subscribe to Calendar](#)

And of course, Daisy supports dark mode!

Why should I care so much about Dark Mode, you ask?

Everybody Loves Dark Mode

Well, *everyone* loves dark mode. Or at least they should.

What's not to love? Less battery wasted. Your eyes are less strained. You get better sleep.

With dark mode, people live happier, healthier, longer lives.

If everyone used Dark Mode, the world would be a better place.

For these reasons and more, Dark Mode is becoming trendy.

chrome://flags/#enable-force-dark

Auto Dark Mode for Web Contents

Automatically render all web contents using a dark theme. – Mac, Windows, Linux, ChromeOS, Android

[#enable-force-dark](#)

And before long, it will likely become standard practice.

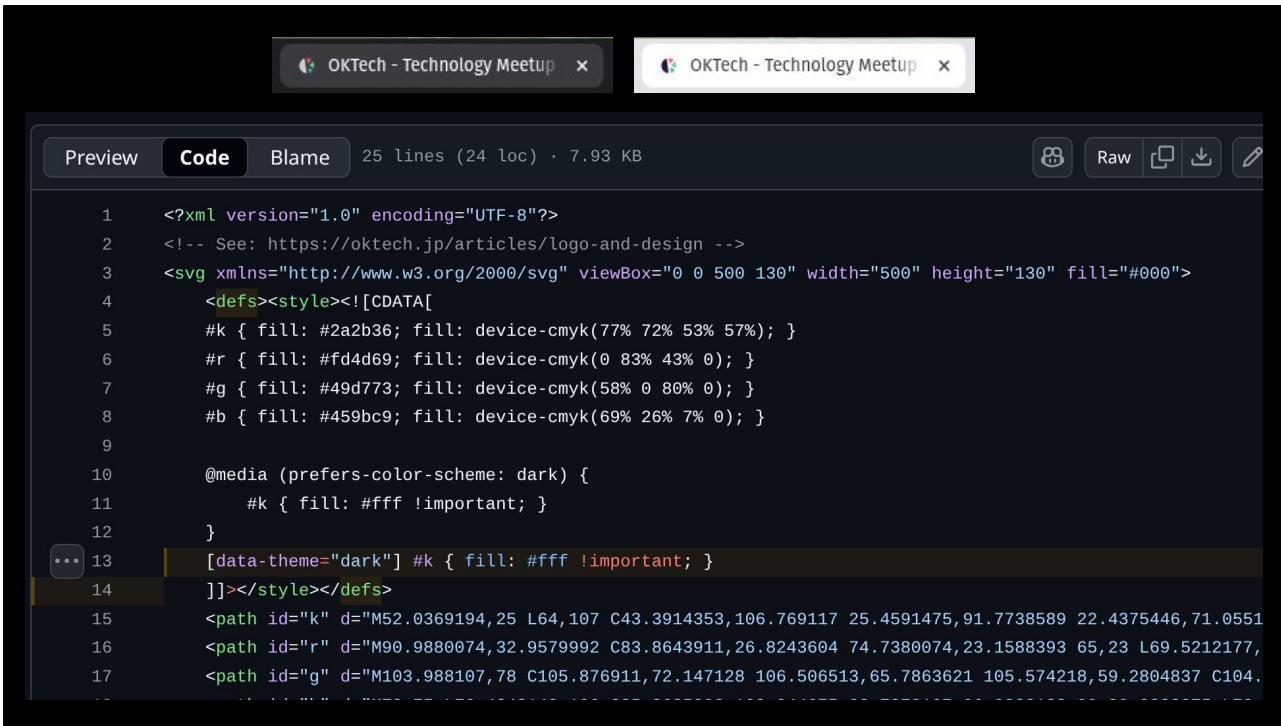
Did you know If you have a Chrome-based browser and enter this in the URL bar,

You can force all websites to render in dark mode.

Right now this feature is a hidden flag, but more browsers are enabling it as a non-hidden option.

If your website doesn't have a dark mode already, you'll soon lose control over what your visitors see when they visit your website.

Providing both a light and dark theme will ensure your visitors get an experience that you determine.



```
1  <?xml version="1.0" encoding="UTF-8"?>
2  <!-- See: https://oktech.jp/articles/logo-and-design -->
3  <svg xmlns="http://www.w3.org/2000/svg" viewBox="0 0 500 130" width="500" height="130" fill="#000">
4      <defs><style><![CDATA[
5          #k { fill: #2a2b36; fill: device-cmyk(77% 72% 53% 57%); }
6          #r { fill: #fd4d69; fill: device-cmyk(0 83% 43% 0); }
7          #g { fill: #49d773; fill: device-cmyk(58% 0 80% 0); }
8          #b { fill: #459bc9; fill: device-cmyk(69% 26% 7% 0); }
9
10         @media (prefers-color-scheme: dark) {
11             #k { fill: #fff !important; }
12         }
13         [data-theme="dark"] #k { fill: #fff !important; }
14     ]]></style></defs>
15     <path id="k" d="M52.0369194,25 L64,107 C43.3914353,106.769117 25.4591475,91.7738589 22.4375446,71.0551
16     <path id="r" d="M90.9880074,32.9579992 C83.8643911,26.8243604 74.7380074,23.1588393 65,23 L69.5212177,
17     <path id="g" d="M103.988107,78 C105.876911,72.147128 106.506513,65.7863621 105.574218,59.2804837 C104.
```

And did you know that SVG's support Dark Mode?

Here, you can see the same OKTech SVG favicon appearing in both dark mode and light mode, based on the operating system user preferences.

This is achieved with the `prefers-color-scheme` media selector, which can be used to override individual shape colors.

It's even applied in contexts outside the dom, such as bookmarks.



Just keep in mind that this doesn't work on IE6 yet.

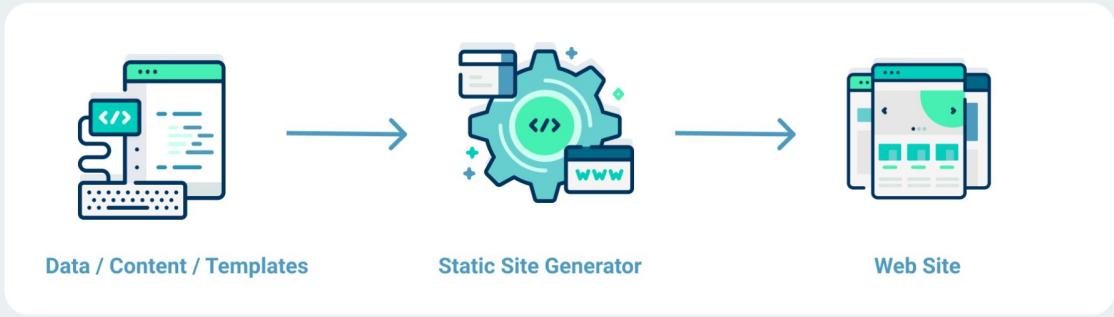
Dynamic Static Site Generation

Let's move away from visuals now, and on to the logistics of how we deliver OKTech.jp.

You might have heard of **Static Site Generation**.

But I'm going to be a bit special and call what we're doing **Dynamic SSG**.

BUILD TIME



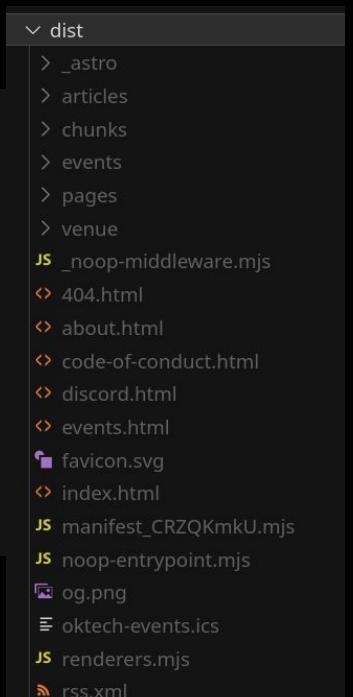
To recap, “Static Site Generation”, is a technique used by frameworks like Jekyll or Gatsby, and started off as a way to create sites with very static content like a blog or API documentation.

Basically, you have a bunch of markdown and templates, you run a build process, and it outputs HTML and CSS that you can host wherever you like.

“Static” is good because, with no application server involved, it’s far less hackable, and incredibly cheap to serve.

```
node → /workspaces/oktech.jp (main-new) $ npm run build
> oktech-web@0.0.1 build
> astro build

URL: http://localhost:4321
02:56:38 [content] Syncing content
02:56:39 [content] Synced content
02:56:39 [types] Generated 1.59s
02:56:39 [build] output: "static"
02:56:39 [build] mode: "static"
02:56:39 [build] directory: /workspaces/oktech.jp/dist/
02:56:39 [build] Collecting build info...
02:56:39 [build] ✓ Completed in 1.60s.
02:56:39 [build] Done building site in 1.60s
```



Indeed, for [OKTech.jp](#), an `npm run build` step outputs a `dist` folder with a bunch of HTML files.

This output can be published to Github Pages, which provides free hosting.

Normally, you'd set up your Github Repo to build and deploy any time files in the repo get updated.

But we're not normal.

The screenshot shows a GitHub repository page for 'oktechjp/public'. The repository is marked as 'Public'. The README file contains the following text:

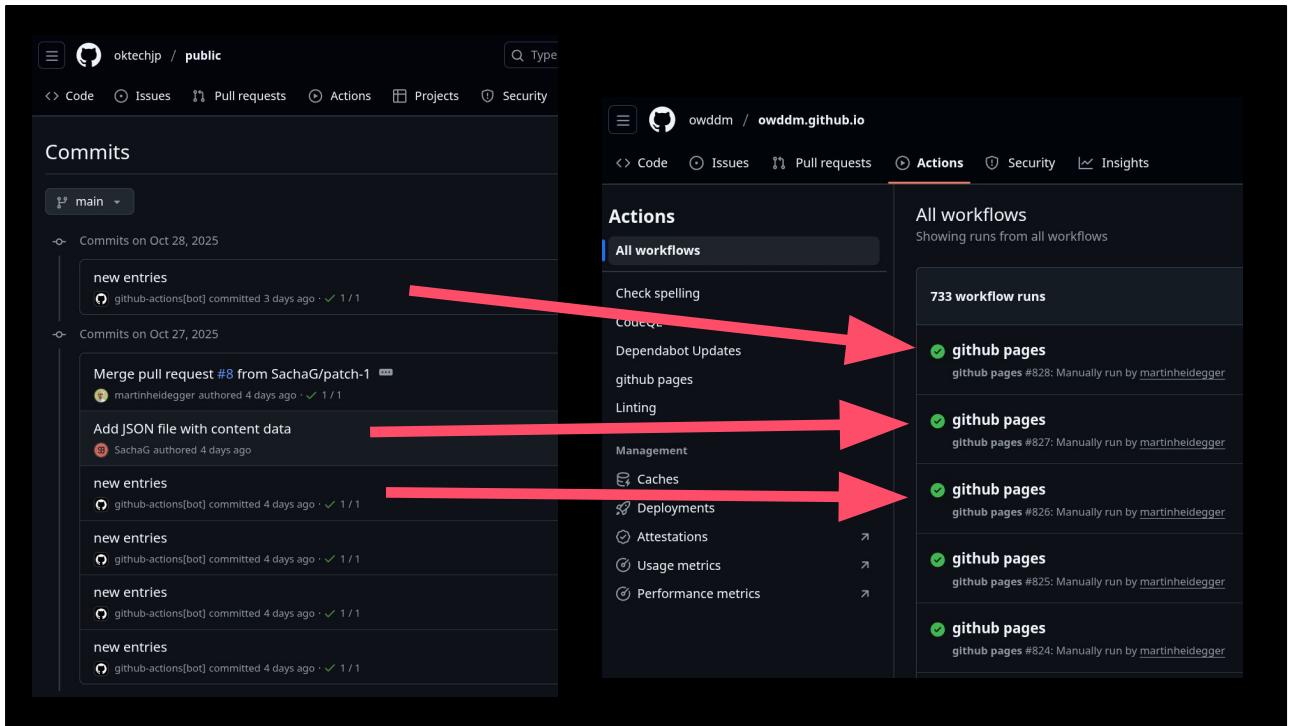
```
Public Data of the OWDDM organization

This repository contains the raw public data of the OWDDM repository.

All data in this repository is licensed under the https://creativecommons.org/licenses/by-nc-sa/4.0/ License by "OWDDM.com".
```

In the OKTech Github, there's this repo called 'public' where all kinds of data is stored.

It includes event information, but also images, business cards, graphic design, and more.



The image shows a side-by-side comparison of two GitHub repositories. On the left is the 'public' repository, and on the right is the 'owddm.github.io' website repository. Red arrows point from the GitHub Actions section of the 'public' repository to the Actions and All workflows sections of the 'owddm.github.io' repository, highlighting the migration of CI/CD from the main repository to the website's GitHub page.

On the old site, whenever the **public** repo was updated, it would trigger a build of the **website** repo.

Upcoming Events



The ‘one trigger, one build’ approach is simple and works most of the time, but it’s not perfect.

Consider the new “upcoming events” section.

If we only trigger a build when we add a new event, then this section will still show stale recently-ended events until a new event is added.

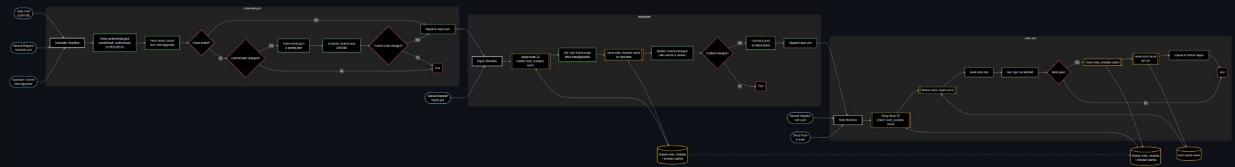
Github Workflows

Are Super Powerful

So, we created some custom Github Workflows to provide upgraded functionality and optimized builds.

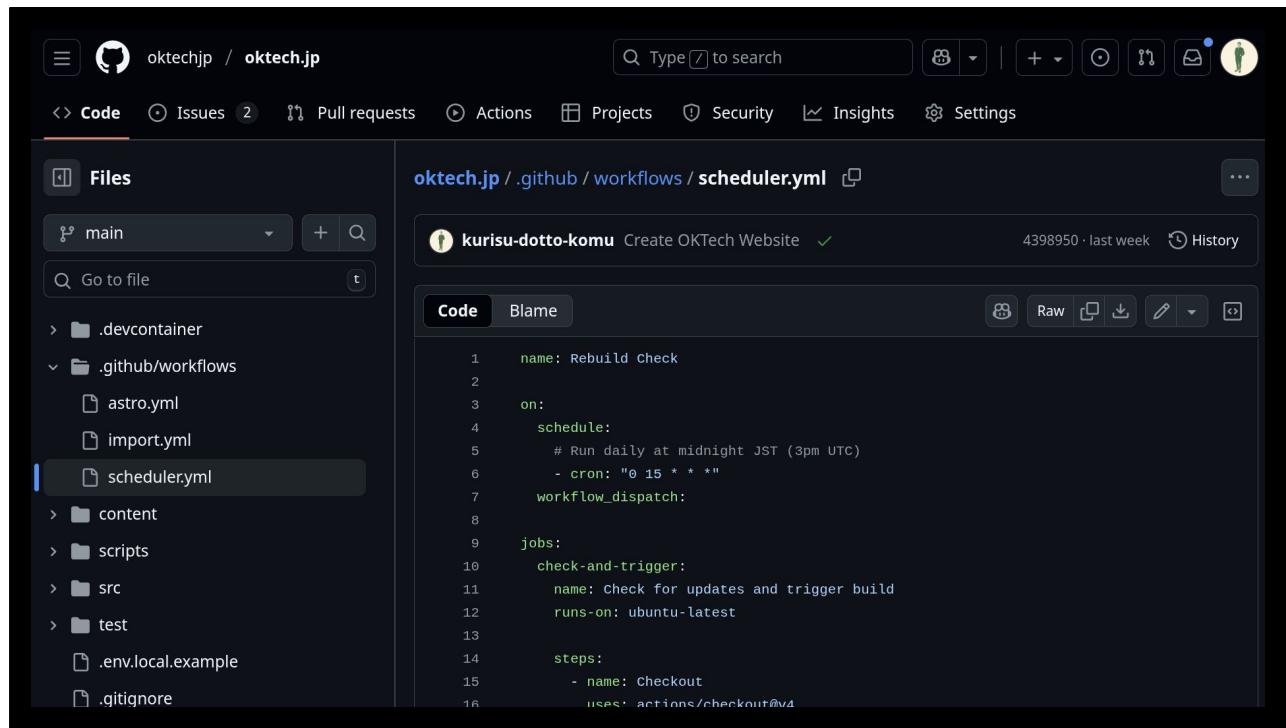
And I want to encourage you developers to try more complex Github Workflows, with the help of AI it's not that difficult, and can be quite powerful.

Schedule -> Import -> Astro (Build)



In the case of OKTech, the new website has 3 Workflow files.

Scheduler, Import, and Build.



oktechjp / oktech.jp

Type to search

Code Issues 2 Pull requests Actions Projects Security Insights Settings

Files

main Go to file

.devcontainer .github/workflows astro.yml import.yml scheduler.yml content scripts src test .env.local.example .gitignore

oktech.jp / .github / workflows / scheduler.yml

kurisu-dotto-komu Create OKTech Website 4398950 · last week History

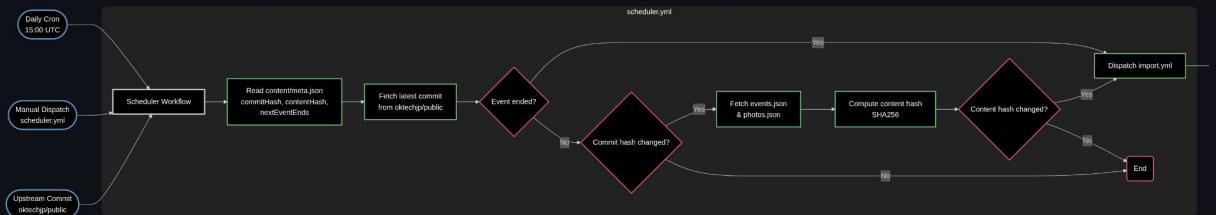
Code Blame

```
1  name: Rebuild Check
2
3  on:
4    schedule:
5      # Run daily at midnight JST (3pm UTC)
6      - cron: "0 15 * * *"
7    workflow_dispatch:
8
9  jobs:
10    check-and-trigger:
11      name: Check for updates and trigger build
12      runs-on: ubuntu-latest
13
14    steps:
15      - name: Checkout
16        uses: actions/checkout@v2
```

First, the Scheduler.

Github Workflows has a **chron** feature, which allows us to automatically trigger this workflow every day at midnight.

scheduler.yml

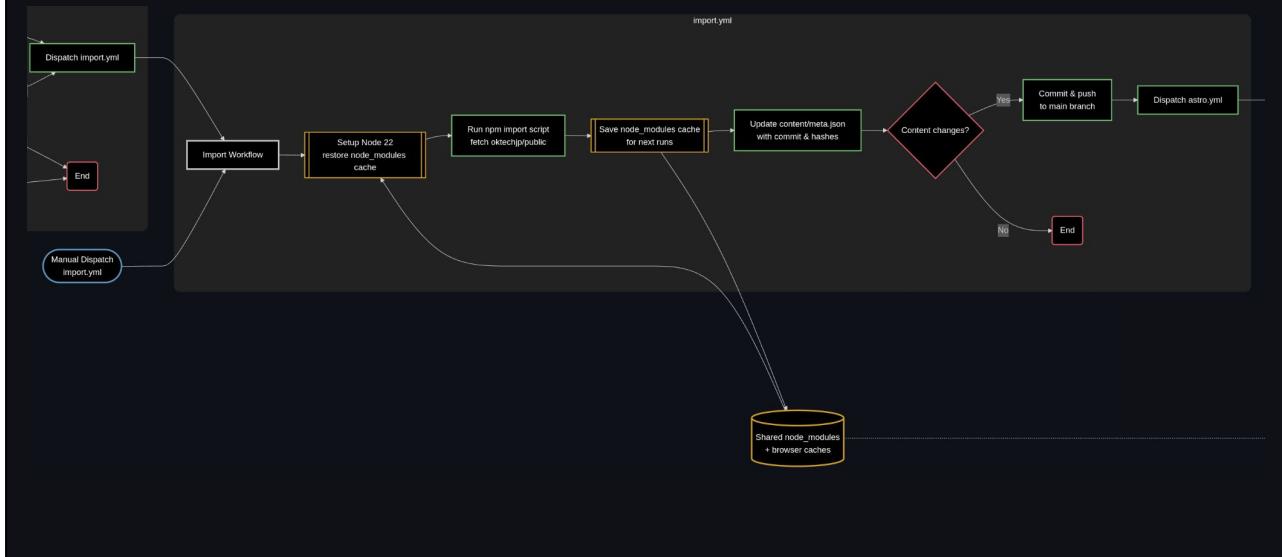


It can also be triggered manually, or whenever our that public repo gets updated, as before.

The scheduler will check if latest event has ended, or if the content hash has changed, and will trigger the next step if needed.

Otherwise, it does nothing, avoiding unnecessary builds.

import.yml



Next, the Import script runs.

It pulls data from upstream sources, using a cache to speed things up.

If new data arrives, the import script will do some image optimizations, write markdown, generate maps, and commit changes, along with a content hash, to the website repo.

But wait, why are we committing data that already exists in public?

To Commit Or Not To Commit?

Now THIS is a question I find myself asking far too often.

But in the context of the OKTech website, I think it makes a lot of sense to commit.

By committing the data, rather than just referencing it as external source, we get a number of benefits.

Reproducibility, Portability, Hotfixes, State Transitions, and more. I can explain more afterwards if you care.

—

Not only can we clone the repo and guarantee that we have a reproducible state, which helps for development and debugging.

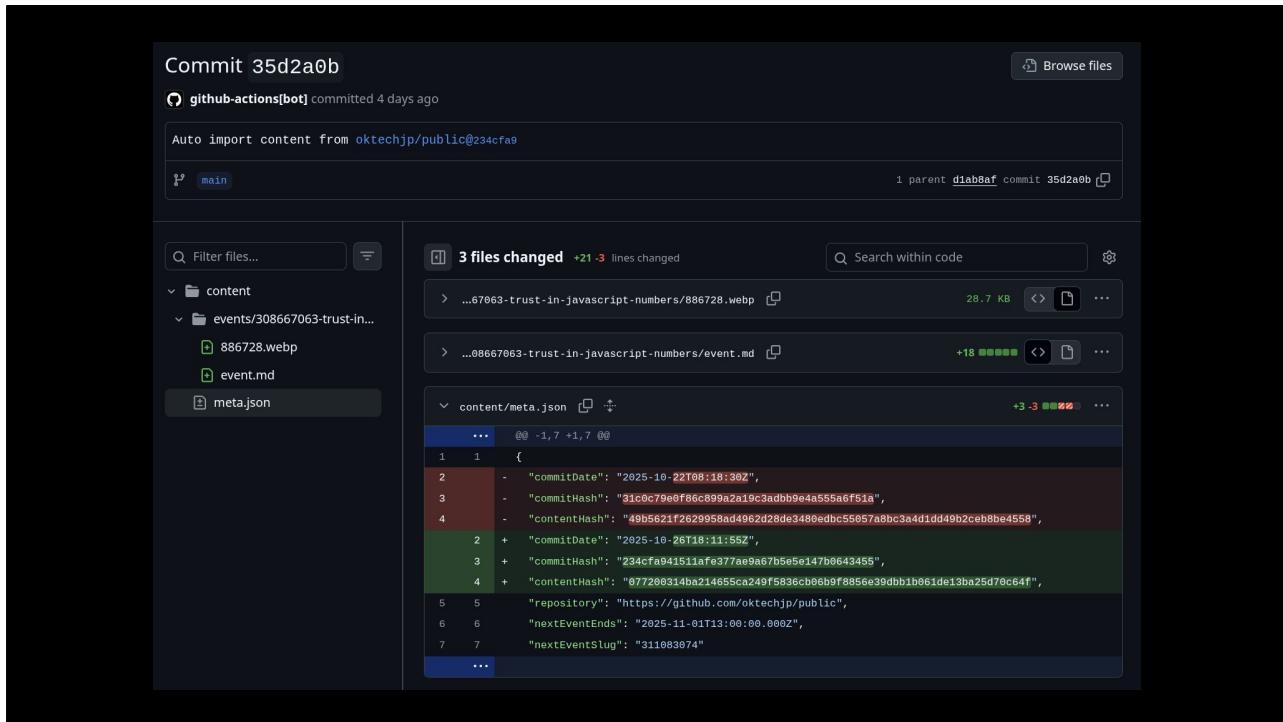
But we,

- Guarantees that the published build will look as we intend
- Can make emergency edits and hotfixes more easily
- Gain the ability to check a committed content hash to avoid unnecessary rebuilds

- Further save time on builds by not having to re-process images on a cold cache
- Give ourselves flexibility if we need to migrate to a different or multiple data sources in the future
- Can do more exotic transforms, such as map generation

And

- Easily compare state changes, allowing us to, for example, create an RSS feed entry if the status of an event is changed



Based on these advantages, the workflow is set up so that as new data come in, it creates a new commit, including a content hash in `meta.json` so the scheduler can easily check if it needs to trigger a build next time.

astro.yml



The final workflow is the build itself.

Again, with heavy use of caching,

```
5328
5329  08:13:16 [build] 181 page(s) built in 18.09s
5330  08:13:16 [build] Complete!
```

Even with thousands of images, Astro breezes through the build in a few seconds.

```
> ✓ Build with Astro 34s
  ⚡ Install Playwright browsers 0s
  ✓ Run tests 22s
    1 ► Run npm run test:dist
    10
    11 > oktech-web@0.0.1 test:dist
    12 > TEST_BUILD=true playwright test
    13
    14 [WebServer]
    15 [WebServer] > oktech-web@0.0.1 preview
    16 [WebServer] > astro preview --host --port 29390
    17 [WebServer]
    18 [WebServer] URL: https://oktech.ip
    19 [WebServer]
    20 [WebServer] astro v5.14.7 ready in 5 ms
    21 [WebServer]
    22 [WebServer] | Local http://localhost:29390/
    23 [WebServer] | Network http://10.1.1.46:29390/
    24 [WebServer]
    25
    26 Running 17 tests using 1 worker
    27 Testing latest event: Trust in JavaScript Numbers
    28 Event date: 2025-11-22T08:00:00.000Z
    29 .....
    30 17 passed (21.4s)
```

Before we actually deploy, we run a sanity check test against the distribution.

We spin up playwright, and ensure the latest event is visible on the front page and the events page.

Upcoming Events



Hello OKTech!

Starts in 5 days
Saturday, November 1, 2025
6:30 PM to 9:30 PM (3 hours)
Hue Coffee Roaster
Osaka #CommunityBuilding #ComputerProgramming



Study Session / Elephant Carpaccio Exercise Part 2...

Starts in 13 days
Sunday, November 9, 2025
7:00 PM to 9:00 PM (2 hours)
KOKOPLAZA
Osaka #DesignPatterns #EngineeringLeadership #S...



And the result is that we now have “dynamic” static HTML, and an upcoming events section that is always up to date.

Location

Javascript



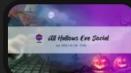
Newest

Grid

List

Album

Search Results



All Hallows Eve Social

Kyoto

⌚ Saturday, October 28, 2023 ⌈ 5:00 PM to 8:00 PM (3 hours) ⌂ Helpfeel Ltd. Kamigyo-ku Goshohachiman-chō 110-16, Kawamoto Bld. 5F



Mechanical Keyboard Social

Kyoto

⌚ Saturday, September 30, 2023 ⌈ 5:00 PM to 8:00 PM (3 hours) ⌂ Helpfeel Ltd. Kamigyo-ku Goshohachiman-chō 110-16, Kawamoto Bld. 5F



React, TypeScript and Discussions

Kyoto

⌚ Saturday, June 24, 2023 ⌈ 5:00 PM to 8:00 PM (3 hours) ⌂ Helpfeel Ltd. Kamigyo-ku Goshohachiman-chō 110-16, Kawamoto Bld. 5F



JavaScript dependency future and TypeScript at the Café

Osaka

⌚ Saturday, May 28, 2022 ⌈ 5:30 PM to 7:00 PM (1 hour 30 mins) ⌂ Laugh Rough Laugh Tennoji-ku Uehonmachi 9-3-1



Comfortable JavaScript Talks in April

Osaka

⌚ Saturday, April 22, 2017 ⌈ 6:00 PM ⌂ Aiming Inc Kita-ku Ofuka-chō 3-1, Grand Front Bld. 18F

Of course, the other “Dynamic” aspect of our SSG is that:

Even though the HTML files are static, we can still run Javascript in the client.

Since Astro lets us use React on the frontend, so we can opt-in to Client Side Rendering whenever we want to do something more ‘Dynamic’, like Searching or Animations.

When using the search box, this feels like a typical client-server interaction.

But we’re actually just fuzzy-filtering, with a client-side with a library called `fuse.js`.

Astro is Hands-Down The Best DSSG Framework

One of the reasons I was excited to help with OKTech.jp is because it would give me an opportunity to use Astro for the first time.

I've built SSG sites before in Gatsby and Next, but those tools have drawbacks.

Needless to say, I am now an Astro convert.

Would I recommend it for everything? No.

But for content-first SSG, Astro the winner.

Design Principles

Here are five core design principles to help explain why we built Astro, the problems that it exists to solve, and why Astro may be the best choice for your project or team.

Astro is...

1. **Content-driven**: Astro was designed to showcase your content.
2. **Server-first**: Websites run faster when they render HTML on the server.
3. **Fast by default**: It should be impossible to build a slow website in Astro.
4. **Easy to use**: You don't need to be an expert to build something with Astro.
5. **Developer-focused**: You should have the resources you need to be successful.

The key point of is that astro is FAST.

Not just for the end user, but for the developer too.



Vite
vite.dev

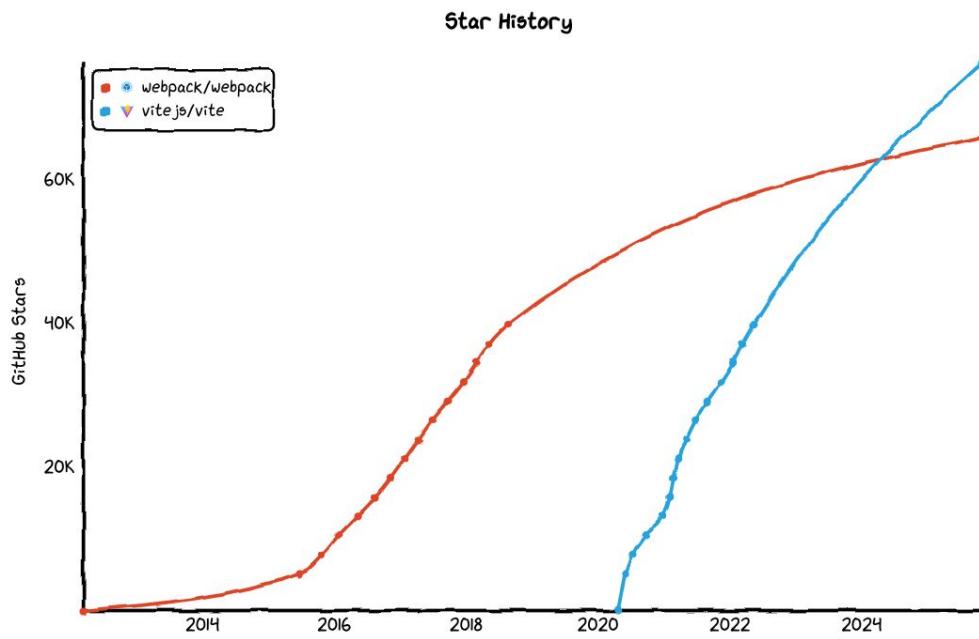
Vite | Next Generation Frontend Tooling

Vite is basically the united nations of JavaScript at this point.

One not-so-secret weapon of Astro is that under the hood, it uses Vite.

A modern, blazing-fast bundler and frontend build tool.

According to Vite, it's the United Nations of Javascript at this point.



You can think of it like the post-covid webpack.

Unless your framework already handles bundling, it's basically the defacto standard for frontend Javascript projects.

Definitely something worth getting familiar with.

Maximum Flexibility

Zero Lock-in

Astro supports every major UI framework. Bring your existing components and take advantage of Astro's optimized client build performance.

Integrate your favorite framework



React



Vue



Preact



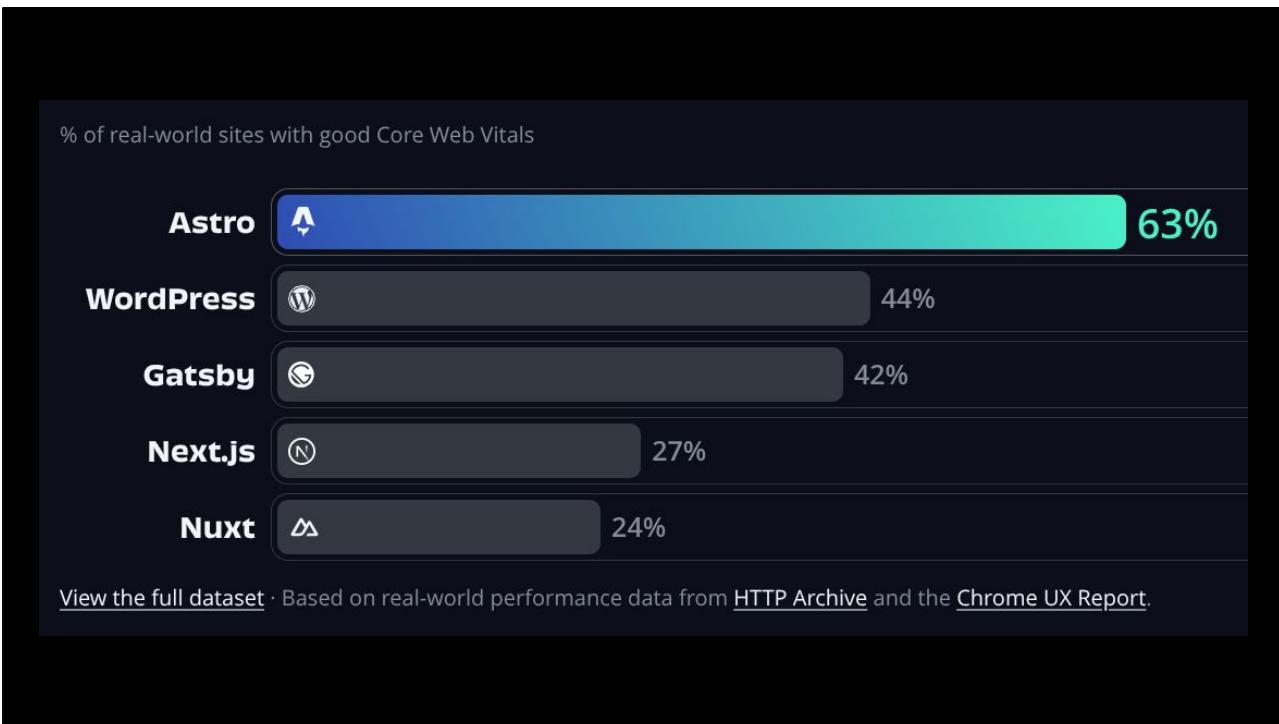
Svelte



Solid

Partly because of Vite, one key appeal of Astro is that it works with popular UI frameworks out of the box.

You can mix and match Astro Templates with React, Vue, Svelte, or even bring your own.



But the real Killer Feature is that Astro outputs extremely well-optimized distributions.

Astro beats the competition in *Core Web Vitals* - a set of metrics that measure real-world user experience for loading performance.

Faster page loads means better UX, means happier users, better SEO, more conversions, and is an easy to measure guiding light.

Using Astro? It's Worth Considering Content Collections

Since Astro is designed to be SSG-first, it also solves SSG-specific problems, like data-management.

```
src/pages/page-1.md
```

```
---
```

```
title: My page of content
```

```
---
```

```
## Introduction
```

```
I can link internally to [my conclusion](#conclusion) on the same page when writing
```

```
## Conclusion
```

```
I can visit `https://example.com/page-1/#introduction` in a browser to navigate dire
```

Most SSG frameworks, including Astro, will let you use the classic pattern of “a bunch of markdown files inside a folder.”

The framework will read the filesystem, ingest the markdown, apply a template, and output HTML based on the filename.

In this case, [page-1.md](#) yields page-1.html.

But what if we have more complex data types?

What if we want to join things like Events and Venues together?

What if each markdown file has an associated Image Gallery?

What are Content Collections?

You can define a **collection** from a set of data that is structurally similar. This can be a directory of blog posts, a JSON file of product items, or any data that represents multiple items of the same shape.

Collections stored locally in your project or on your filesystem can have entries of Markdown, MDX, Markdoc, YAML, TOML, or JSON files:

```
► └ src/
  └ newsletter/    the "newsletter" collection
    └ week-1.md    a collection entry
    └ week-2.md    a collection entry
    └ week-3.md    a collection entry
  └ authors/       the "author" collection
    { } authors.json  a single file containing all collection
                      entries
```

In a typical web application, a Database ORM could be used for this, but since we're doing SSG, we don't have that luxury.

So Astro's solution is a kind of in-memory ORM, called Content Collections.

The key advantage is that we can keep our data stored in a way that makes the most sense for maintainability and aesthetics.

While creating a standardized compatibility layer in code, providing total flexibility to read, transform, and extend it as we like.

```

// Events collection definition
export const eventsCollection = defineCollection({
  loader: eventsLoader,
  schema: eventsSchema,
});

async function eventsLoader() {
  const imports = import.meta.glob<EventMarkdownModule>("/content/events/**/event.md", {
    eager: true,
  });
  return Object.entries(imports).map(([filePath, { frontmatter }]) => {
    const dirname = path.dirname(filePath);

    // Ensure YYYY-MM-DD HH:MM format
    if (!TIMESTAMP_REGEX.test(frontmatter.dateTime)) {
      throw new Error(`Invalid date/time format for ${filePath}: ${frontmatter.dateTime}`);
    }
    // Convert to UTC from JST (+09:00)
    const [date, time] = frontmatter.dateTime.split(" ");
    const dateTime = new Date(`${date}T${time}:00+09:00`);
    if (isNaN(dateTime.getTime())) {
      throw new Error(`Invalid date/time for ${filePath}: ${frontmatter.dateTime}`);
    }

    return {
      id: path.basename(dirname),
      dateTime,
      cover: frontmatter.cover && path.join(dirname, frontmatter.cover),
      venue: frontmatter.venue ? String(frontmatter.venue) : undefined,
      devOnly: !!frontmatter.devOnly,
      title: frontmatter.title,
    };
  });
}

```

> events > 311083074-hello-oktech > event.md

 ...

 title: Hello OKTech!

 dateTime: 2025-11-01 18:30

 duration: 180

 cover: ./438931.webp

With Content Collections we define arbitrary document types, with loaders and schemas.

For example, we can import markdown files with glob query.

But you aren't limited to that – it could be reading the filesystem for images, or parsing YAML, fetching from an API, or whatever.

Before any other parts of our app know about it, we can filter it and transform the data to ensure it's conforming to the structure we expect.

A perfect example, shown here, is the start time for events.

In our markdown, it's in a shorthand format and in Japan Time for easy editability.

But within our app, we always want this as a UTC timestamp.

Instead of recalculating this in different parts of the app, we can just transform it once here.

```
function eventsSchema() {
  return z.object({
    id: z.string(),
    title: z.string(),
    description: z.string().optional(),
    readingTime: z.string().optional(),
    dateTIme: z.date(),
    duration: z.number().optional(),
    cover: z.string(),
    devOnly: z.boolean().optional().default(false),
    venue: reference("venues").optional(),
    topics: z.array(z.string()).optional(),
    howToFindUs: z.string().optional(),
    meetupId: z.number(),
    links: z.record(z.string()).optional(),
    isCancelled: z.boolean().optional(),
    attachments: z.array(attachmentSchema).optional(),
  });
}
```

Content Collections can also enforce Schemas, which ensures build-time validation and creates Typescript types.

You can even reference collections with each other based on an ID, like a database join.

```
export async function getStaticPaths() {
  const events = await getEvents();

  return events.map(({ id }) => {
    return {
      params: { eventSlug: id },
    };
  });
}

const { eventSlug } = Astro.params;

const event = await getEvent(eventSlug);
const isUpcoming = isEventUpcoming(event);
---

<SidebarPageLayout>
  Look, now, we can easily access the event types: {event.data}
  <Fragment slot="before-sidebar">
    <EventActionAlert variant="compact" event={event} client:visible />
  </Fragment>
  <Fragment slot="sidebar">
    <LocationCardEvent event={event} client:load />
  </Fragment>
}

// event.data
(property) data: Omit<{
  id: string;
  title: string;
  date: Date;
  cover: string;
  devOnly: boolean;
  meetupId: number;
  description?: string | undefined;
  readingTime?: string | undefined;
  duration?: number | undefined;
  venue?: ReferenceDataEntry<"venues", string> | undefined;
  topics?: string[] | undefined;
  howToFindUs?: string | undefined;
  links?: Record<string, string> | undefined;
}>
```

The result is that throughout your app you know exactly what kind of data you're working with.

And your build will fail with granular error messages if there's something wrong.

Okay, sorry. We may have gone in a bit too deep there.

I can see that many people's eyes glaze over when I talk about Typescript.

Let's talk about something - Lighter.

It's Time to Talk About Blobs

It's time to talk about blobs.

Logo

Event Community About

Together in tech and life

Build cool things, share life hacks, and meet kind minds.

 2K+
Activate Community members



The blob graced us early in the design process.

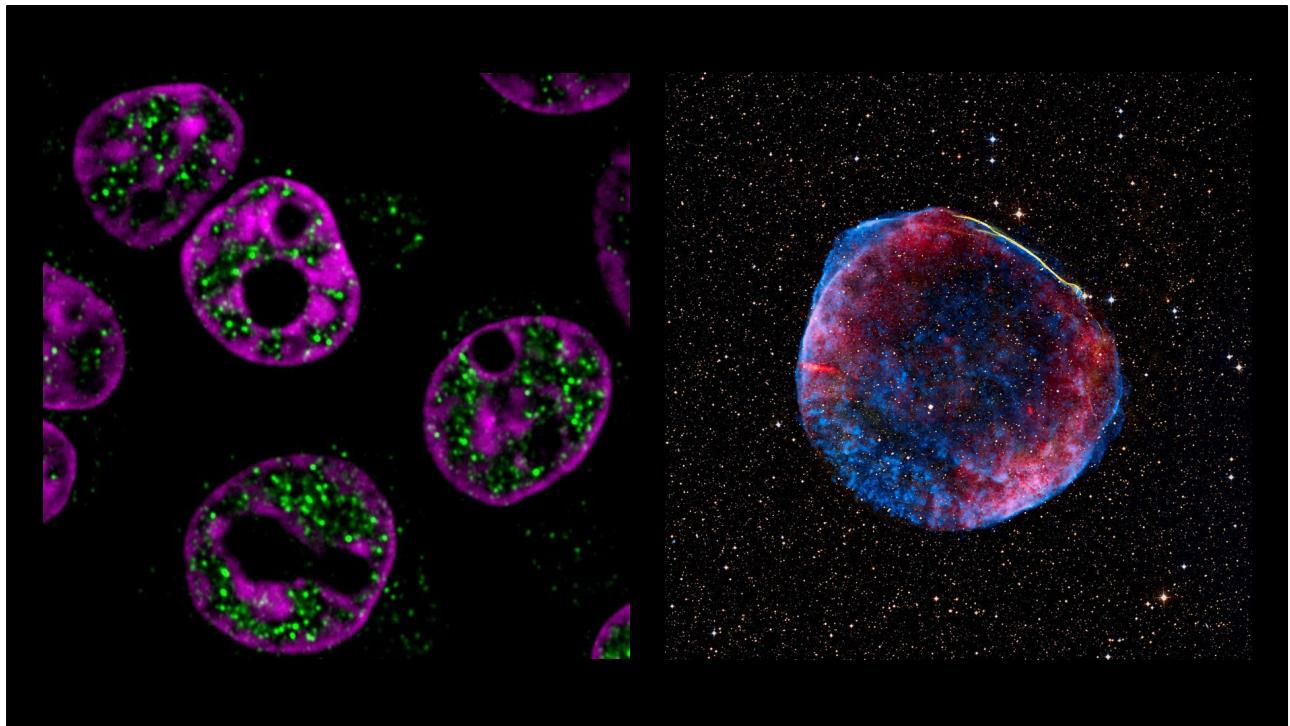
It first showed up in one of Evey's prototype mockups.

The moment I saw the Blob, I immediately recognized its beauty.

The blob is a vector, a path, a clipping mask.

The blob is unique, imperfect, human.

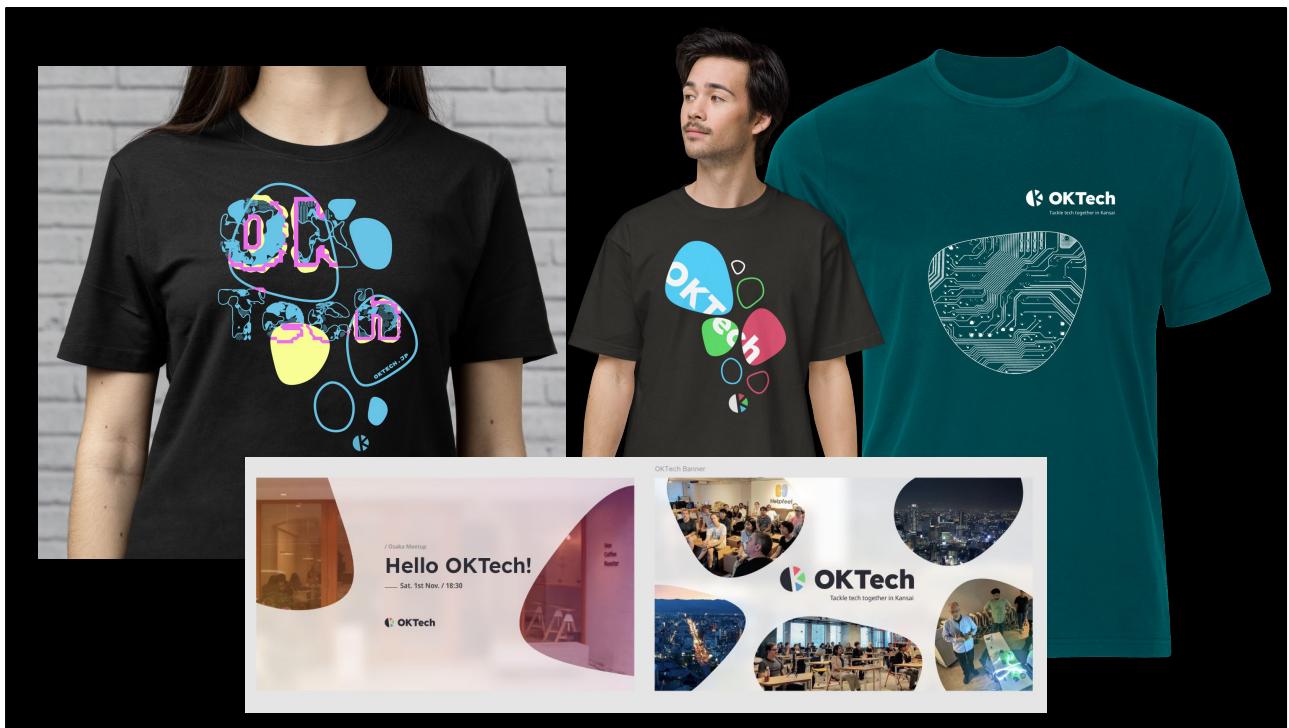
The blob is Together, in Tech and Life.



From the smallest cell, to the largest supernova.

Blobs are Within us and Without Us.

No Blobs. No Life.



The Blob was a memetic contagion.

The blob evolved and adapted independently.

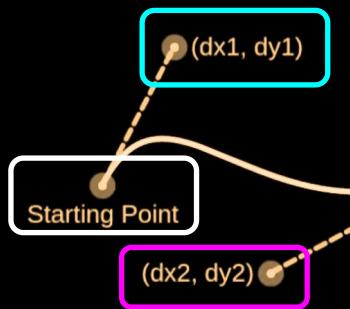
We didn't choose the blob.

The blob chose us.

What is a Blob?

But wait. What, exactly, is a Blob?

A Blob is a **closed SVG path** made from **multiple joined** **Cubic Bézier curve segments** ...in the shape of a Blob



```
<svg xmlns="http://www.w3.org/2000/svg">
  <path
    d="M43.1,-32.8
      C 52.5, -22.7, 54.2, -5, 49.1, 8.7
      C 44, 22.3, 31.9, 31.8, 16.2, 43
      ■ ■ ■
      C0.4,54.2,-19.1,67.1,-31,62.2
      C16.9,-45.3,33.8,-42.9,43.1,-32.8Z"
    />
  </svg>
```

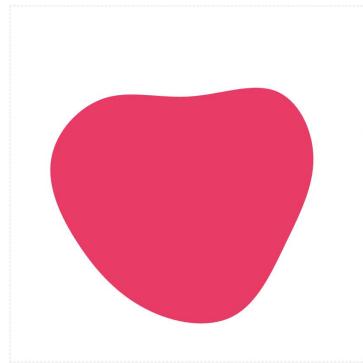
A Blob is a closed SVG path

made from multiple joined

Cubic Bézier curve segments

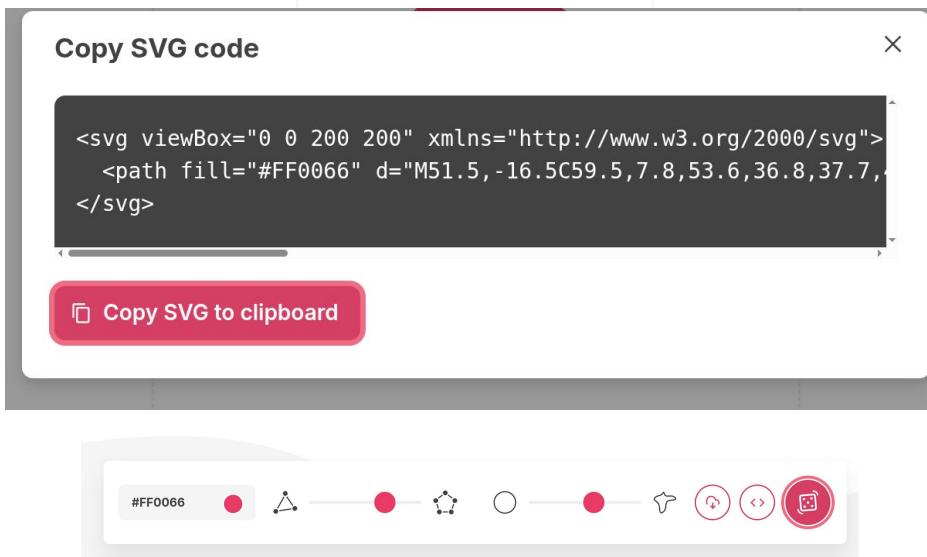
...in the shape of a Blob

blobmaker.app



Blobmaker.app is the official blob provider of the OKTech Website.

blobmaker.app



With blobmaker.app, you are just a click away
from a practically infinite number of
beautifully blobbily
Closed joined cubic bezier curve segments.

```
// Created with https://www.blobmaker.app/, then scaled with scripts/precompute-blobs.  
// you must ensure the same number of vertexes?  
export const BLOBS = [  
  "M87.73,11.83C96.03,20.74,97.53,36.36,93.03,48.46C88.53,60.46,77.85,68.84,63.99,78.7  
  "M85.32,26.04C93.72,34.37,100.00,46.64,97.95,57.60C95.91,68.55,85.61,78.20,73.70,83.  
  "M86.07,18.85C94.77,27.34,100.00,41.07,97.08,52.55C94.16,64.10,83.22,73.40,69.84,81.  
  "M92.39,21.72C100.00,28.87,98.29,45.73,92.54,58.08C86.87,70.51,77.23,78.36,67.13,81.  
  "M91.24,31.67C97.54,44.57,99.30,56.16,97.47,68.04C95.56,79.84,90.14,91.94,81.20,95.9  
  "M89.20,22.02C94.04,33.81,89.54,47.31,86.33,61.01C83.13,74.71,81.29,88.62,73.24,94.3  
  "M91.67,14.25C100.00,23.20,95.61,43.90,88.68,60.04C81.84,76.18,72.54,87.85,61.67,91.  
  "M79.00,25.98C86.70,39.11,89.52,52.65,85.67,62.68C81.75,72.71,71.17,79.24,59.35,86.0  
  "M86.61,20.99C94.22,33.06,94.72,48.40,89.57,59.08C84.48,69.77,73.85,75.86,61.72,83.4  
];
```

And we ripped those things like nobody's business.

```
<svg width={0} height={0} className="absolute">
  <defs>
    <mask id={maskId} maskUnits="objectBoundingBox" maskContentUnits="objectBoundingBox">
      <rect x="0" y="0" width="1" height="1" fill="black" />
      <path
        fill="white"
        transform="translate(0 0) scale(0.01)"
        d={getCurrentPath()}
        style={{
          transition: `d ${transitionSpeed}ms cubic-bezier(0.68,-0.55,0.265,1.55)`,
        }}
      />
    </mask>
  </defs>
</svg>
```

Did you know that you can even natively animate between Blob paths with pure CSS transitions?

Well, I didn't, until ChatGPT told me I could. And it worked!



But, unfortunately, once again, it didn't work in IE6.

And we couldn't deprive such an important user base from realistic blob transitions.

```
const useSpring = (d, config) => {
  const props = useSpring({
    d: props.blobPath,
    config: props.springConfig || { mass: 0.8, tension: 180, friction: 9 },
  });
  const maskId = `blob-mask-${props.id}`;
  return (
    <>
      <svg style={{ position: "absolute", width: 0, height: 0 }} aria-hidden="true">
        <defs>
          <clipPath id={maskId} clipPathUnits {"objectBoundingBox"}>
            <animated.path d={springs.d} transform={"translate(0.05 0.05) scale(0.009)"} />
          </clipPath>
        </defs>
      </svg>
      <div
        className={clsx(props.className, "-m-8")}
        style={{
          clipPath: `url(${maskId})`,
          WebkitClipPath: `url(${maskId})`,
          // force hardware acceleration
          WebkitTransform: "translateZ(0)",
          transform: "translateZ(0)",
        }}
      >
        {props.children}
      </div>
    </>
  );
}
```

Seriously, though, Safari did force us to find the much better alternative:

The react-spring animation library.

Now our blobs not only animated on all modern platforms, but had more realistic bogginess to them.

Here's the magic – an hidden inline SVG with a shared mask id that animates a neighbouring div's clipping path.

Animation is Low Hanging Fruit

And this is a learning I would like to share.

Developers don't really normally think about animations too much.

But nowadays, with modern animation libraries, they are very **LOW COST** and **HIGH VALUE**.

It's super easy to add extra PANASH, for very little programming.

About OKTech

A volunteer, non-profit group organizing monthly meetups in the Kansai region of Japan. We invite people from all walks of web-life and encourage members to present topics they enjoy. Join us for technical workshops, study sessions, and social gatherings in Osaka and Kyoto.

[Learn More ↗](#)

First Event

2020

Started our Journey

Total Events

64

Events and counting

Venues

22+

Places we've met

Participants

0.8K+

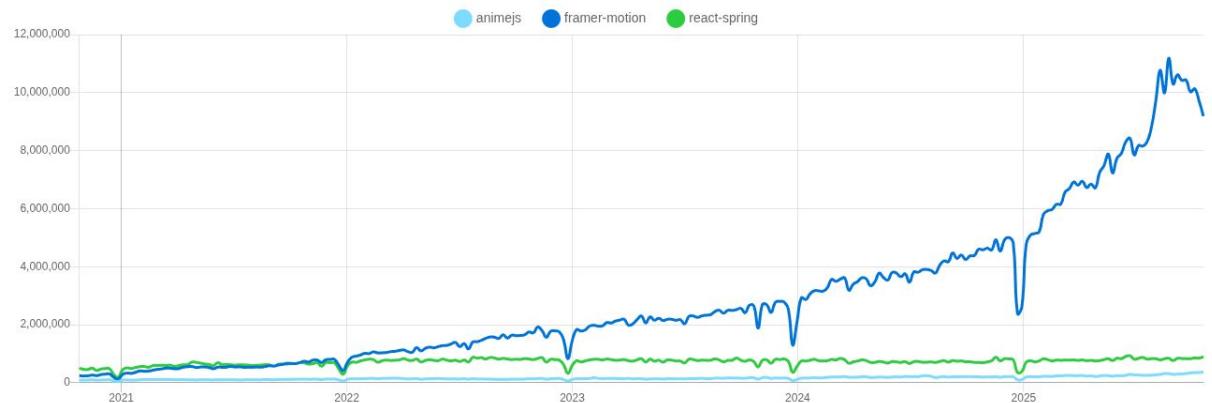
Community members

Take for example this grid. We could just keep them as static squares.

```
export default function StatsGrid({ stats }: StatsGridProps) {
  const trail = useTrail(stats.length, {
    from: { opacity: 0, transform: "translate3d(0,-80px,0)" },
    to: { opacity: 1, transform: "translate3d(0,0px,0)" },
    config: { mass: 2, tension: 60, friction: 30 },
    delay: 300,
  });
  return (
    <div className="grid grid-cols-2 gap-4 md:grid-cols-4">
      {trail.map((style, index) => (
        <animated.div key={index} style={style} className="aspect-square">
          <StatsItem stat={stats[index]} colorClass={tileColors[index % tileColors.length]} />
        </animated.div>
      )));
    </div>
  );
}
```

But with a just **few lines of code**, this otherwise boring component is *transformed* into an engaging bonanza of kodawari.

Downloads in past 5 Years ▾



I used react-spring on [OKTech.jp](#), but that maybe wasn't the right choice.

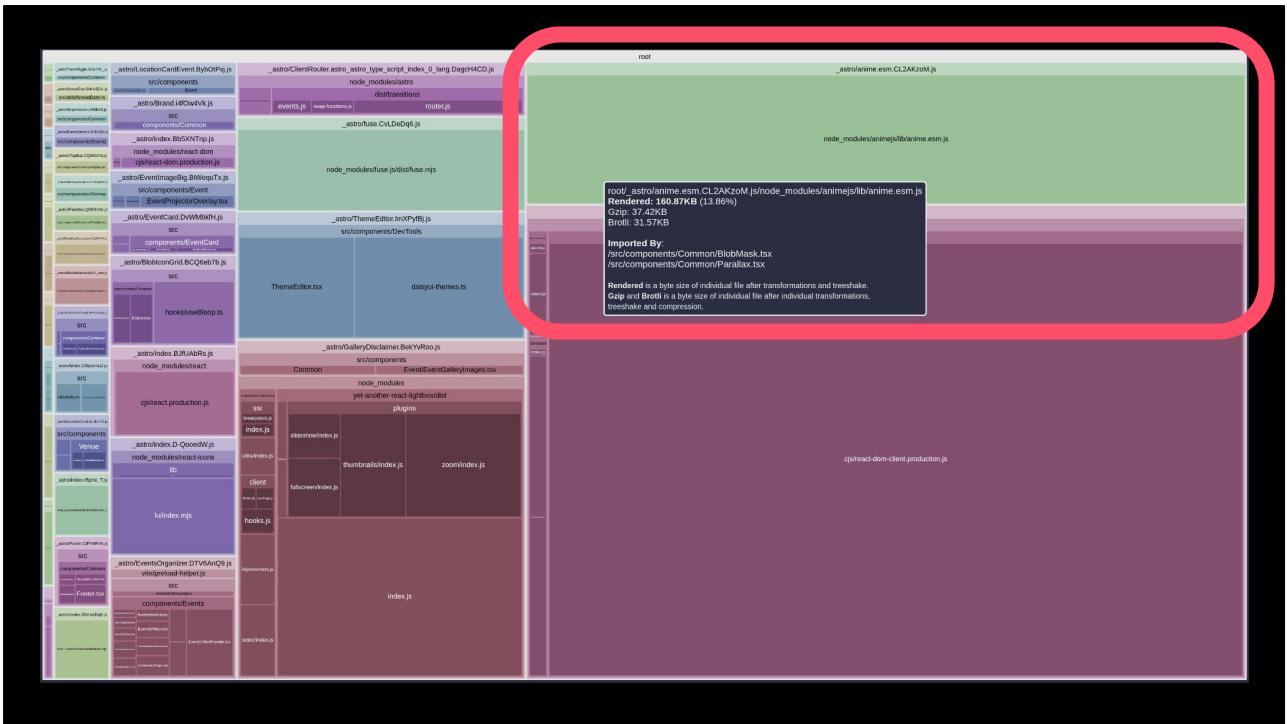
Don't get me wrong, I'm happy with it. But my rule of thumb lean towards whatever is popular.

So next time, I'll give framer-motion a try.

I actually first tried out [Anime.js](#), largely because it sounded cool, but I quickly removed it for the following reason:

Auditing **and Optimizing**

Auditing and Optimizing



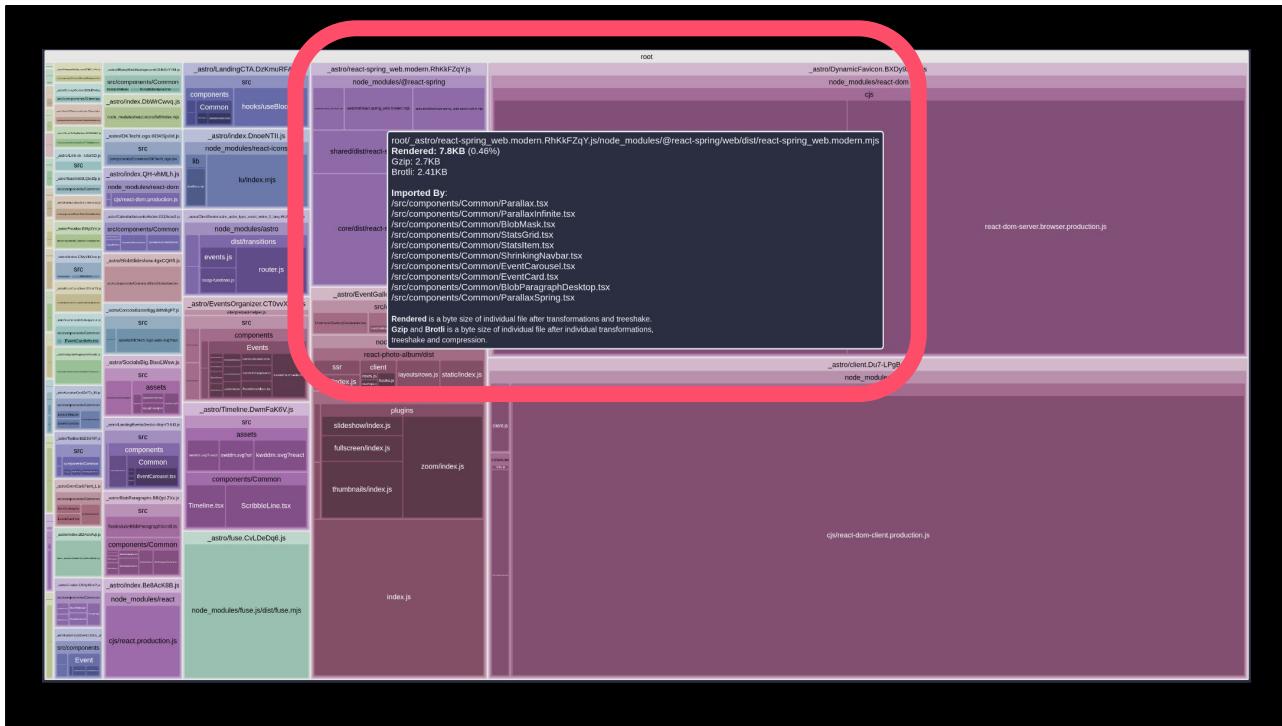
If you, like me, love to analyze bundles. You can run `npm run analyze-bundle` on this project.

You'll see this lovely visualization of which files in your distribution are heavy and light.

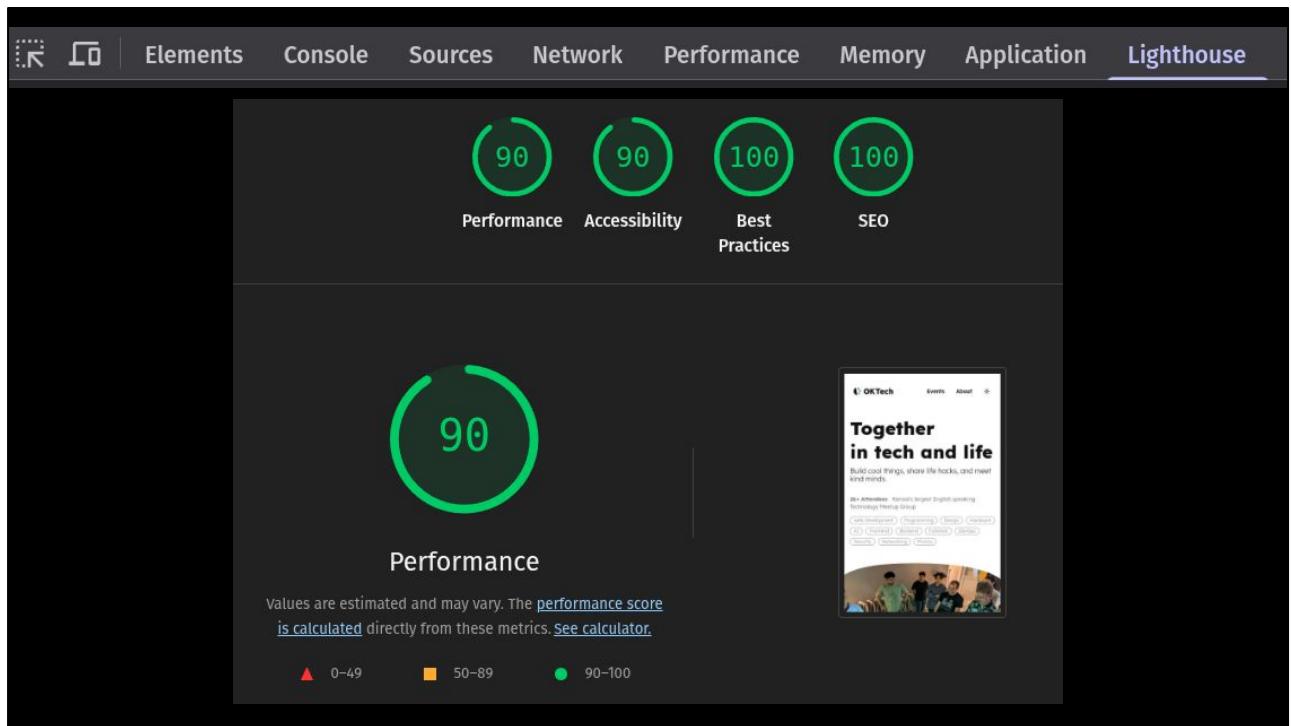
Much to my dismay, when I first analyzed the bundle, too much of it was taken up by Anime.js.

Turns out it didn't support modern tree-shaking!

So, I switch to the lighter-weight react-spring.



Ah, Much better!



Another essential auditing tool is Lighthouse.

Built into Chrome Developer Tools, it will generate a report and check the **Core Web Vitals** we talked about before.

It's always worth using this tool, as it's quick and easy and can help troubleshoot performance issues.

All green, and you're good to go.

But this might require some tedious code changes, particularly to reduce the amount of data needed to load your site.

Save The Planet

Use Image Source Sets

One thing that your Lighthouse report will recommend is the use of Image Source Sets

As we all know, the internet is a series of tubes.

Some tubes are small, some tubes are big.



And the primary purpose of these tubes sending pictures of cats.

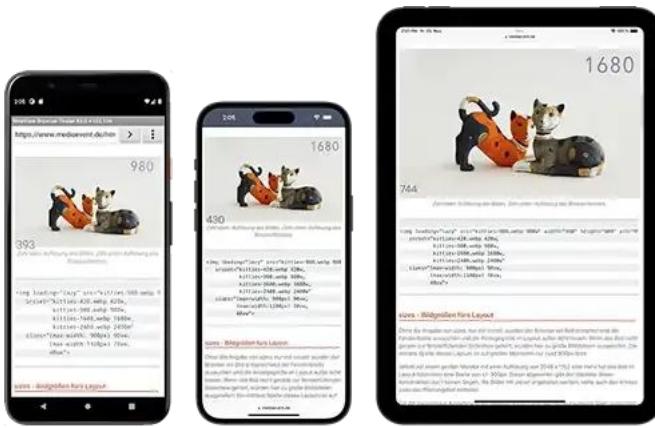


But how do we ensure that the tube is big enough for the cat?

How do we make sure that we only send a small cat to the small tube?

And a big cat through the big tube?

The industry terminology for this concept CTR – or Cat Tube Ratio, which you want to be as close to 1 as possible.



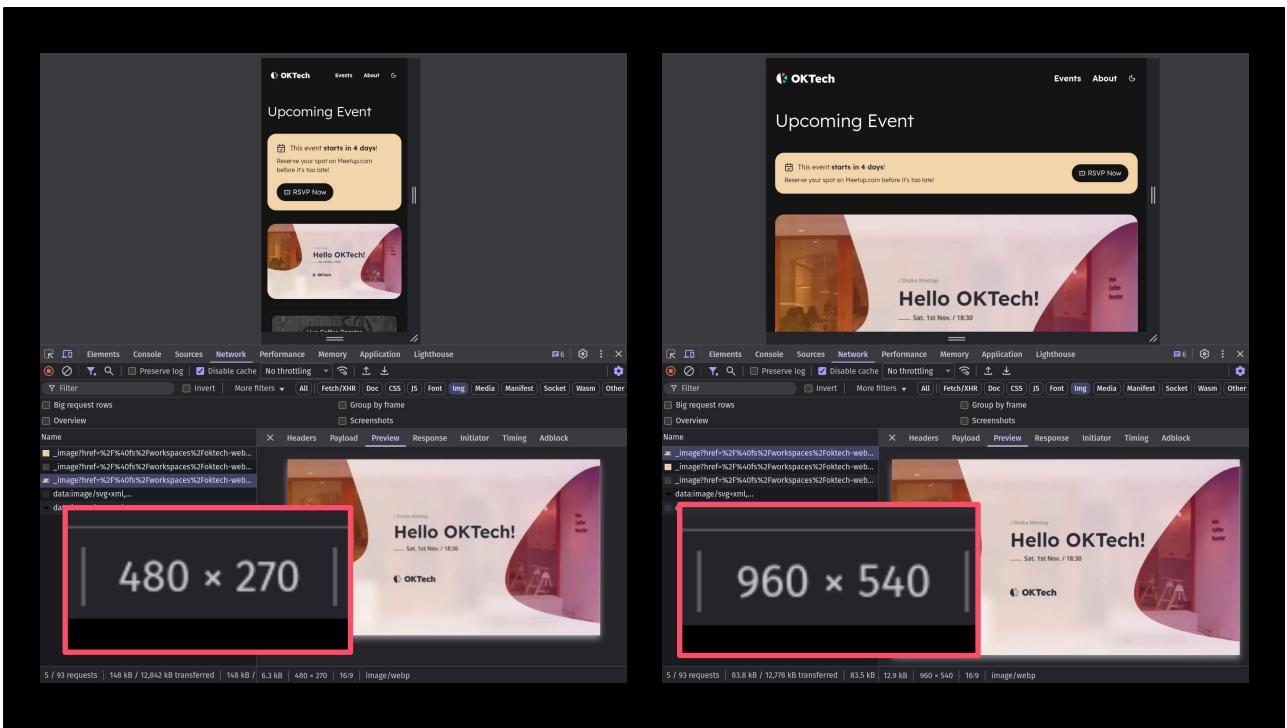
 width of the image source
 srcset="cat-160.jpg 160w,
 cat-320.jpg 320w,
 cat-640.jpg 640w,
 cat-1280.jpg 1280w" />
 Browser picks best source

To optimize your CTR, this is where a Source Set can help.

An underutilized feature of the HTML spec,

Basically, since the browser knows how wide it's viewport is, it can intelligently request the best image for that size.

Instead of trying to squeeze big cats through a small pipe, the cat we send is exactly the size that's needed!



Here it is in action on oktech.jp

Especially with image-heavy pages, it can seriously reduce data transfer.

It saves your visitors valuable data.

Things feel faster - it's better UX, especially on mobile.

And in turn, it will help out with Search Engine Optimization.

But it does require some extra steps – including preparing the images in multiple dimensions before we send them.

Thankfully, Astro does this for us.

```
src/components/MyComponent.astro
---
import { Image } from 'astro:assets';
import myImage from '../assets/my_image.png';
---
<Image src={myImage} alt="A description of my image." layout='constrained' width={800} height={600} />
```

This `<Image />` component will generate the following HTML output on a prerendered page:

```

```

When using the Image component, Astro will prepare your various sized cats automagically.

Unfortunately, however, this only works with `.astro` components, and we're using React.

Beware of Astro's Idiosyncrasies

And this leads us to my main gripe with Astro.

While it does support multiple frontend frameworks as advertised,

They're kind of a second class citizens in the Astro world.

```
<header>
  <TopBar client:load transition:persist="topbar" />
</header>
```

```
<footer>
  <Footer client:visible />
</footer>
```

```
<div class="md:col-span-5">
  <Parallax client:idle classNa
    <BlobSlideshow
```

client:only

`client:only={string}` skips HTML server rendering, and renders only on the client. It acts similarly to `client:load` in that it loads, renders, and hydrates the component immediately on page load.

You must pass the component's correct framework as a value! Because Astro doesn't run the component during your build / on the server, Astro doesn't know what framework your component uses unless you tell it explicitly.

```
<SomeReactComponent client:only="react" />
<SomePreactComponent client:only="preact" />
<SomeSvelteComponent client:only="svelte" />
<SomeVueComponent client:only="vue" />
<SomeSolidComponent client:only="solid-js" />
```

Unlike in [Next.js](#), where React is deeply integrated and can be interwoven between client and server,

In Astro, while you can render React Serverside and ship the HTML,

For anything interactive, you have to use these weird Client Directives to tell Astro when we want to opt-in.

The problem is that once you opt-in to a client component, that entire component tree also becomes a client component.

These child components can't use Astro's server-side features, including the magic Image component.

getImage()

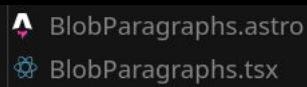
Type: `(options: UnresolvedImageTransform) => Promise<GetImageResult>`

⚠ Caution

`getImage()` relies on server-only APIs and breaks the build when used on the client.

The `getImage()` function is intended for generating images destined to be used somewhere else than directly in HTML, for example in an [API Route](#). It also allows you to create your own custom `<Image />` component.

The workaround is to implement your own image generation method with `getImage`.
You can either include the references in your Content Collection,
prop-drill them down the component tree,
or write a custom component wrapper.



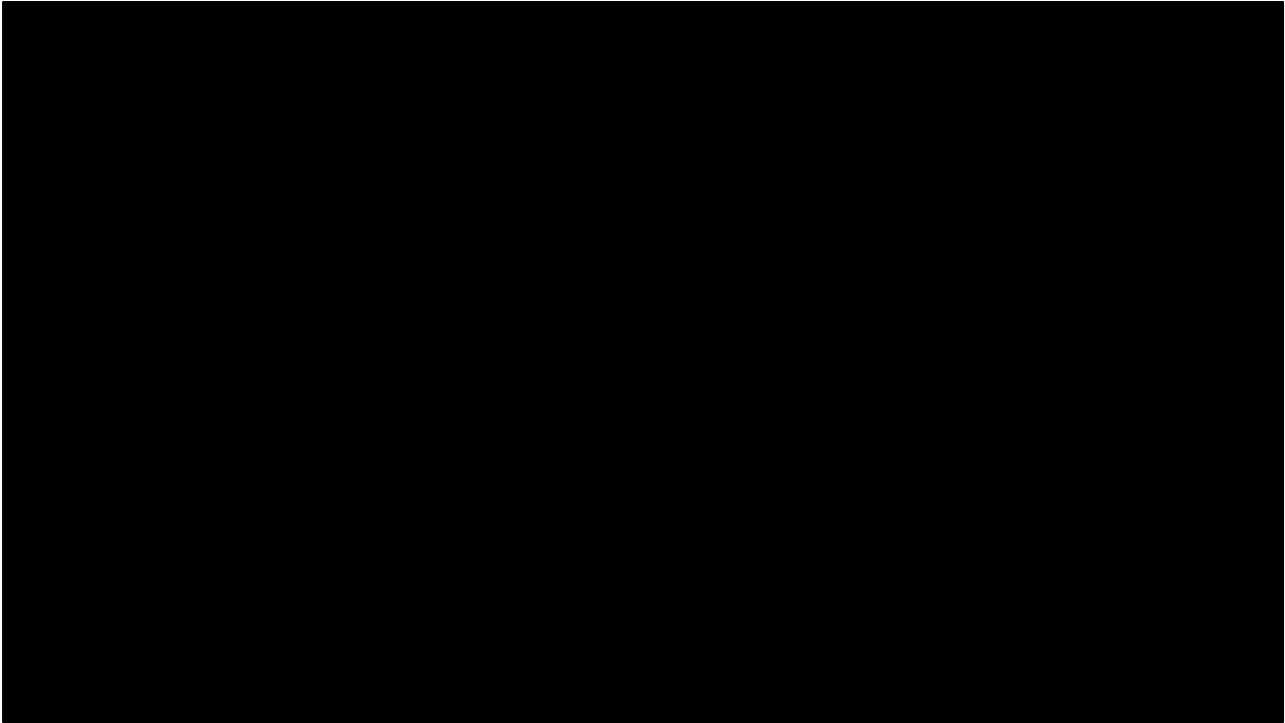
```
---  
import BlobParagraphsClient from "./BlobParagraphs";  
import { getResponsiveImage } from "@/utils/responsiveImage";  
  
interface Paragraph {  
  title: string;  
  text: string;  
  images: string[];  
  blobs?: number[];  
}  
  
interface Props {  
  paragraphs: Paragraph[];  
  blobs?: number[];  
}  
  
const { paragraphs, blobs } = Astro.props;  
  
const processedParagraphs = await Promise.all(  
  paragraphs.map(async (paragraph) => ({  
    ...paragraph,  
    images: await Promise.all(  
      paragraph.images.map((path) => getResponsiveImage(path, "blobSlideshow"))  
    ),  
  })),
);  
---  
  
<BlobParagraphsClient paragraphs={processedParagraphs} blobs={blobs} client:visible />
```

If you have an interactive component that that also uses responsive images,

You end up having to do something like this,

Where we have a Server Side Astro wrapper, providing data and generating images, passed to a Client Side React component.

It's fine, I guess, but I hope Astro can improve this experience in future, and maybe embrace React's native RSC model.



But apart from this, Astro is pretty good.

It's worth giving it a try.

What's Next, OKTech.jp?

So that concludes my bag of tricks. I hope you've learned something useful.

And I just wanted to end with a call to action.

There are some features in the future we'd like to implement, such as

Speaker Profiles, A Map Visualization, OG Image Generation,

and even some interactivity during events with Q&A, Voting, etc.

If you have any other ideas, feedback or suggestions,

or if you'd like to learn by contributing code to this modern stack,

It would be my pleasure help you and collaborate.



クリス.コム 23/10/2025, 09:12

Okay, so the website is in a v1 release state.

Just reach out to me on the OKTech discord.

Or even better, chat with me now.

Please take a one of my limited edition business cards!

Peace.

Thanks for your attention.

<https://クリス.コム>

Thank you for your attention!

PEACE.

