# Building a Portfolio Website with Next.js

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#### **About Me**

- Open source enthusiast
- Software Engineer at GudangAda
- \*\* Google Summer of Code 2019 with Django
- → Developer Student Clubs Universitas Indonesia 2019 Lead
- **OVERTION** CSUI 2017

More at laymonage.com/about







# Background

The internet is a vast space, full of people.

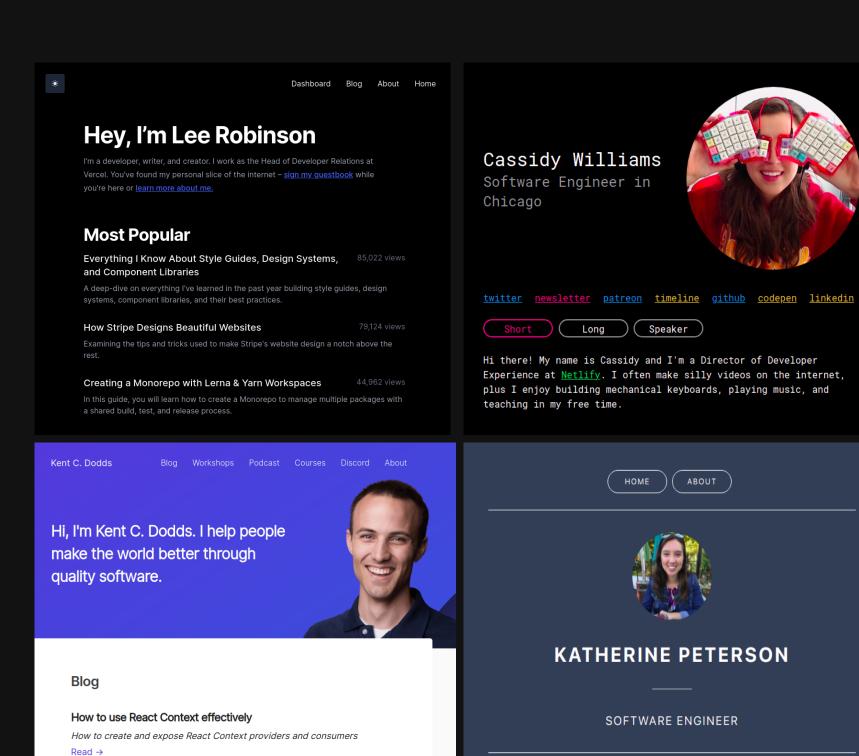
How can others find you?

How can others find your work?

## Portfolio

Your **home** on the internet.

Where people can find you and your work.



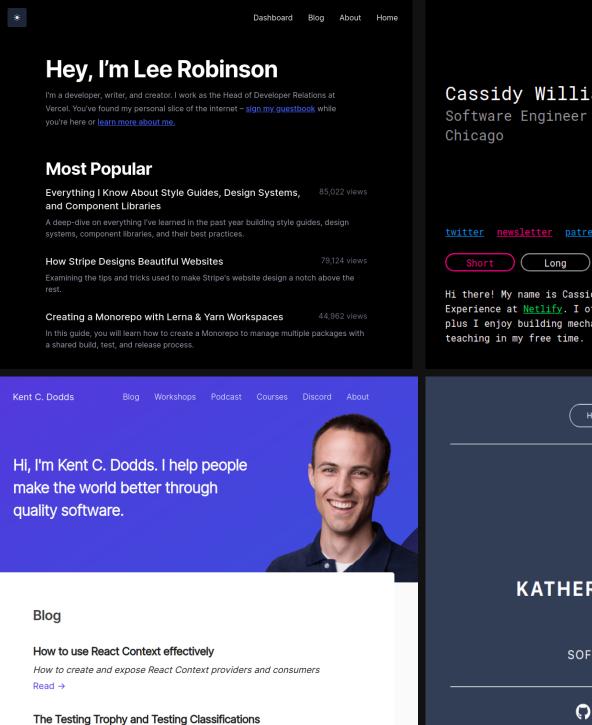
The Testing Trophy and Testing Classifications

How to interpret the testing trophy for optimal clarity

(7) 💆 in 🧳

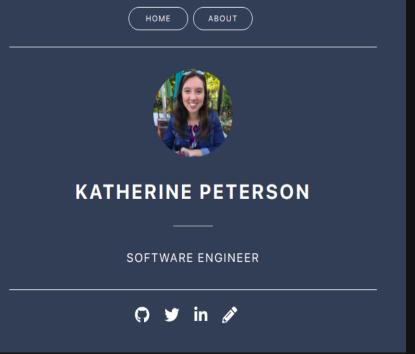
# Why?

- Show your background
- Prove that you have the know-how
- Convey your creativity and dedication
- Strengthen your personal branding
- Stand out among others



How to interpret the testing trophy for optimal clarity





#### Where to start?













## Static vs. Dynamic Website

#### **Static**

- Blazing fast
- Quick to develop
- Cheap and easier to host
- Can't be tailored to individual visitors
- Functionalities limited by client and premade assets
- Impossible to store secrets for external API authentication

#### **Dynamic**

- Can provide tailored experience
- More powerful and flexible
- Allows secure authenticated interaction with external APIs
- Slower compared to static websites
- Require knowledge of backend programming
- Expensive and harder to host

# Next.js

"The React Framework for Production"

Allows pre-rendering in two forms:

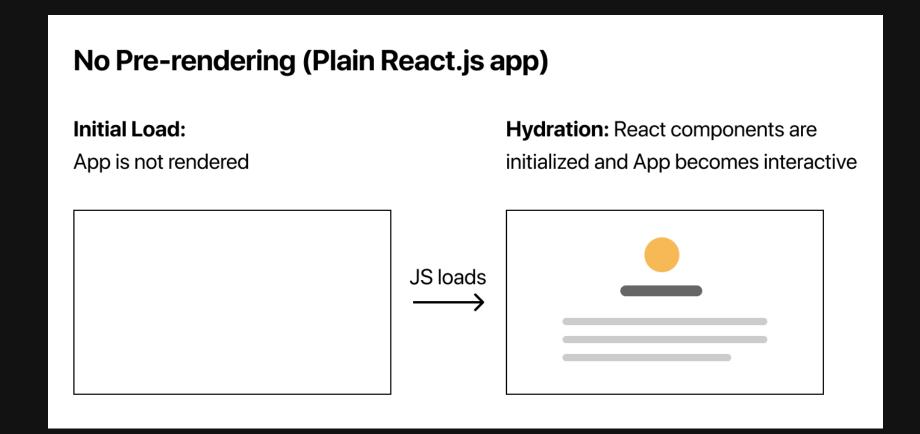
- Static Site Generation (SSG)
- Server Side Rendering (SSR)

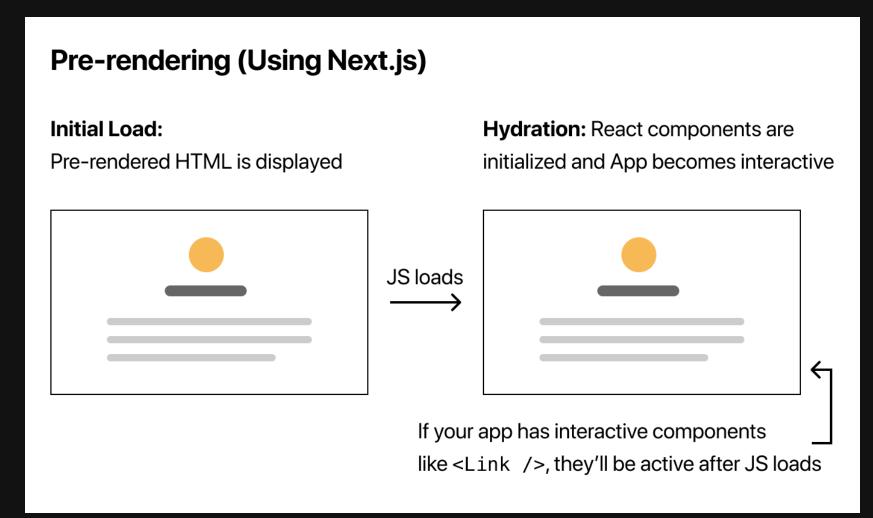
Best of both worlds!

In addition...

- API Routes
- Incremental Static Regeneration (ISR)

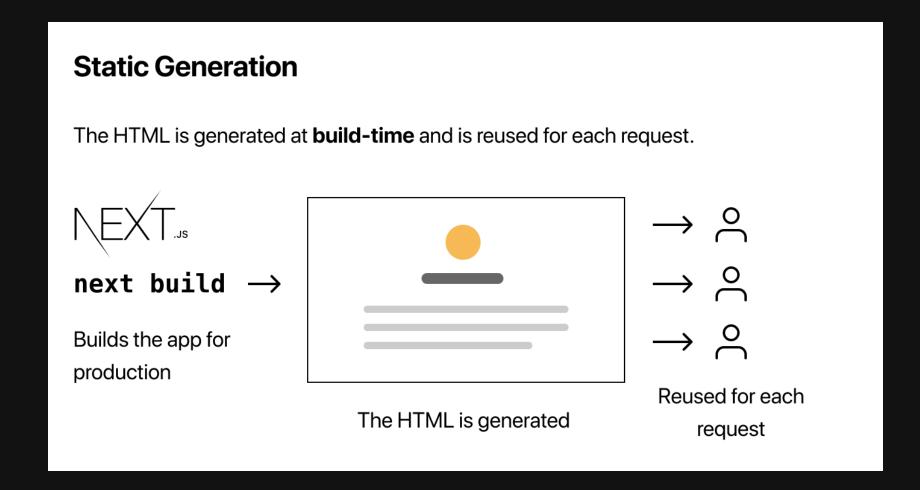
# Pre-rendering

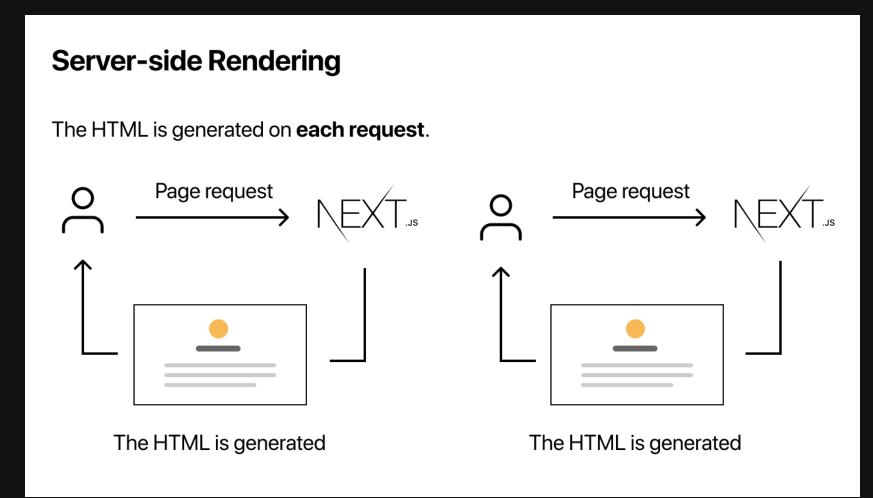




See nextjs.org/learn/basics/data-fetching/pre-rendering

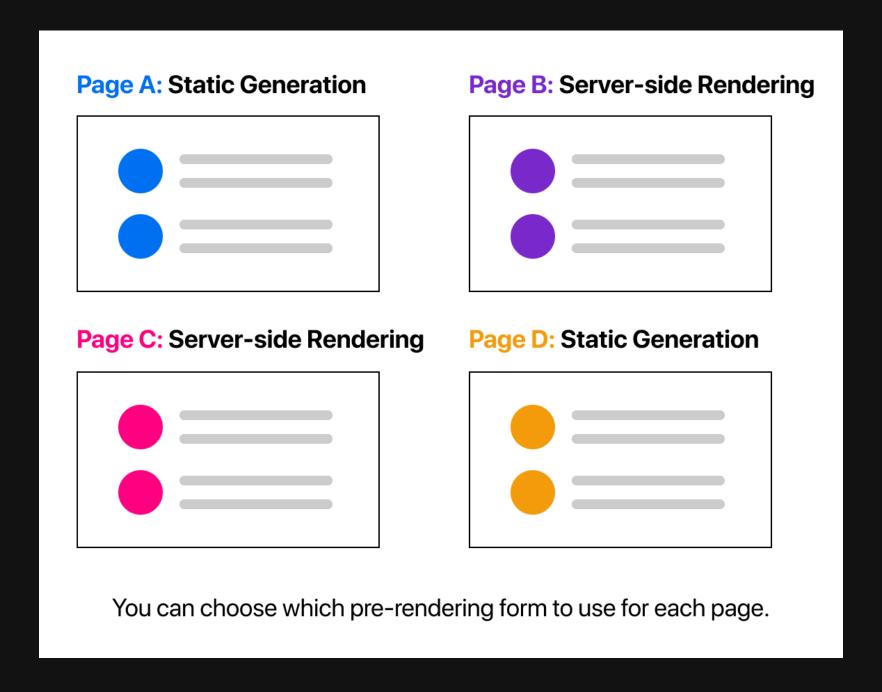
# Two Forms of Pre-rendering





See https://nextjs.org/learn/basics/data-fetching/two-forms

# Per-page Basis

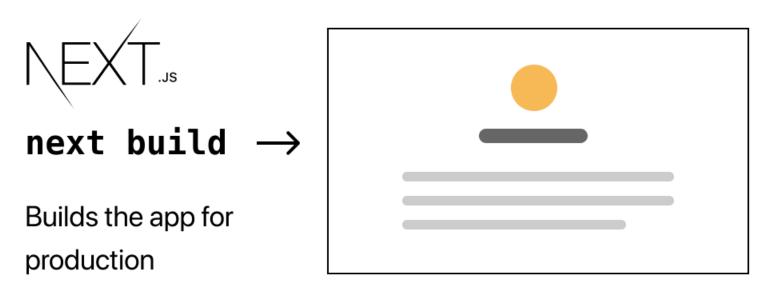


See https://nextjs.org/learn/basics/data-fetching/two-forms

## Static Generation without Data

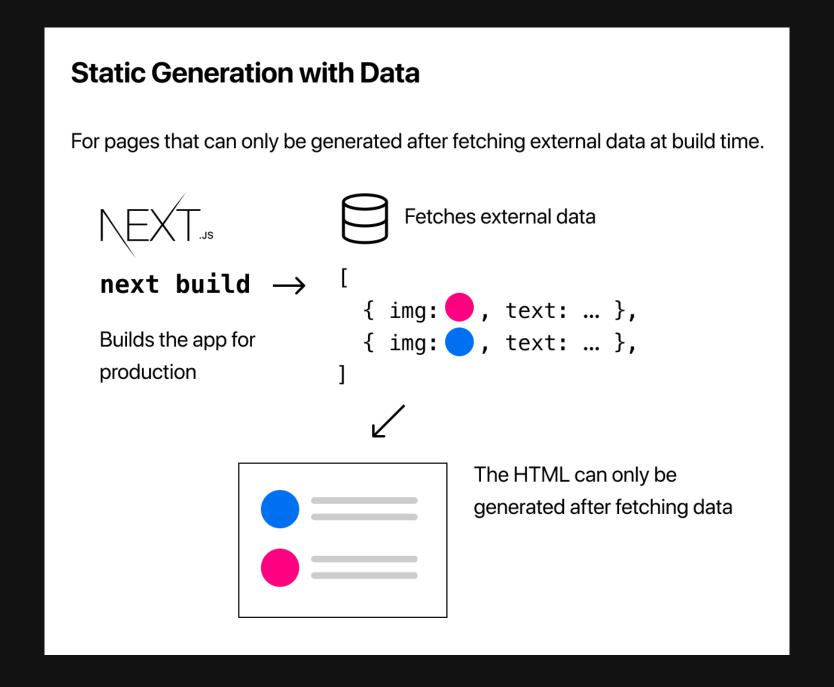


For pages that can be generated without fetching external data at build time.



The HTML is generated — no need to fetch external data

### Static Generation with Data



See https://nextjs.org/learn/basics/data-fetching/with-data

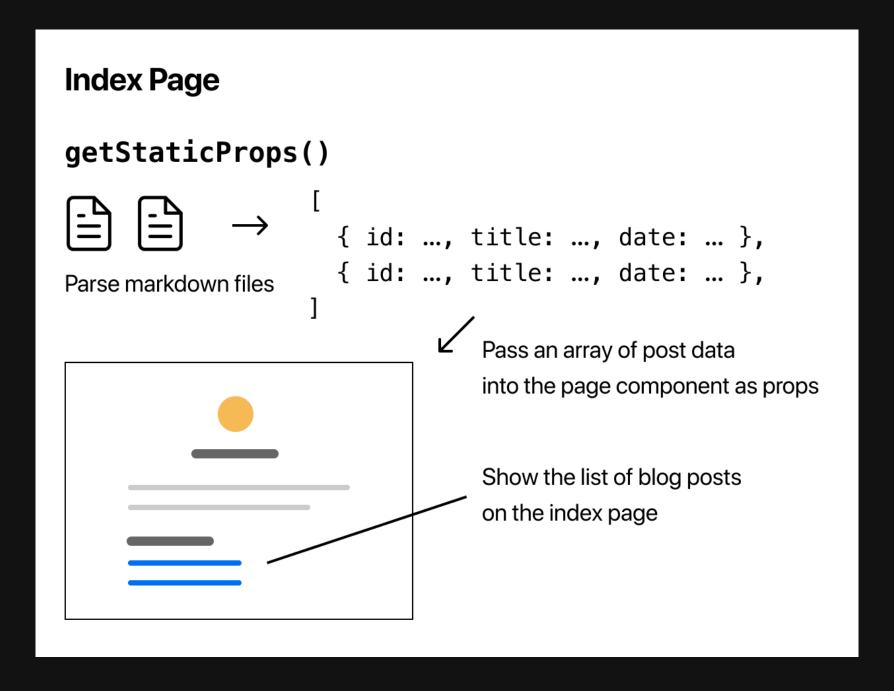
### `getStaticProps`

```
export default function Home(props) { ... }

export async function getStaticProps() {
    // Get external data from the file system, API, DB, etc.
    const data = ...

    // The value of the `props` key will be
    // passed to the `Home` component
    return {
        props: ...
    }
}
```

# **Example: Blog Data**



See https://nextjs.org/learn/basics/data-fetching/blog-data

## Limitations?

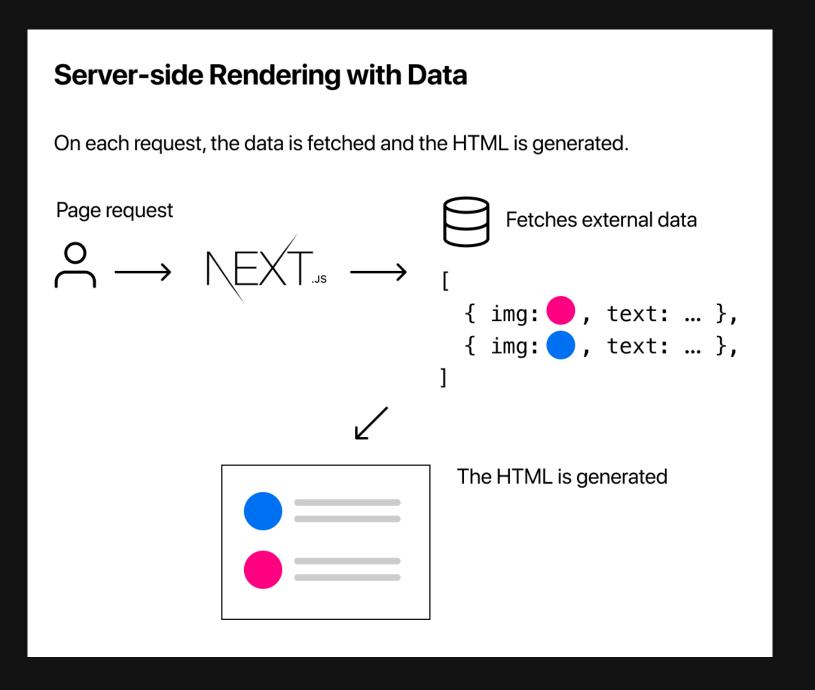
Data is only "fetched" and rendered into the pages at **build time**.

What if the data is constantly updated?

Stale data! 😦

Solution: fetch data at request time! 😄

# Server-side Rendering with Data



See https://nextjs.org/learn/basics/data-fetching/request-time

#### `getServerSideProps`

```
export default function Home(props) { ... }

export async function getServerSideProps(context) {
   return {
    props: {
        // props for your component
      }
   }
}
```

## Client-side Rendering?

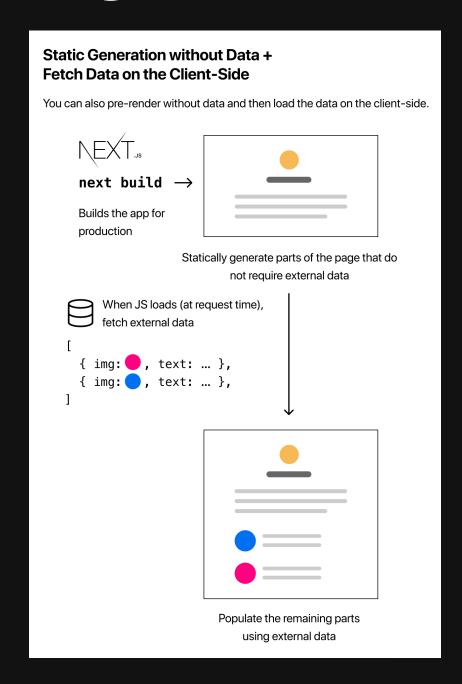
Server-side rendering might be **costly** 

Data might take a while to be fetched

Increase **responsiveness** of the page → **client side rendering** 🤔



# Client-side Rendering



See https://nextjs.org/learn/basics/data-fetching/request-time

## More...

- Dynamic Routes
- API Routes
- Incremental Static Regeneration (ISR)

# Any questions?

Next: Next.js Hands-on

## Thank you!

Slides available on slides.laymonage.com/nextjs-portfolio

Slides source code available on github.com/laymonage/slides-nextjs-portfolio

Made with sli.dev

Content based on nextjs.org/learn