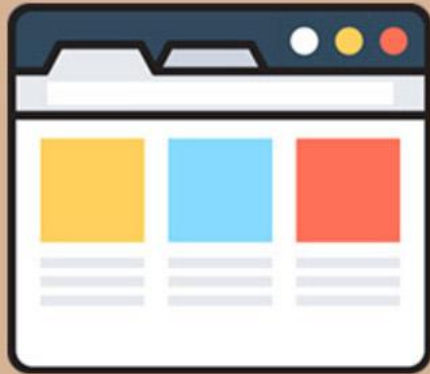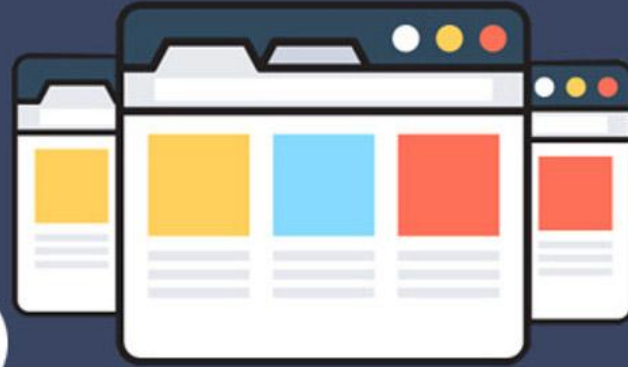# Astro's
Island Architecture

Yubi

Sivadass N

Let's learn the modern way of building high speed, SEO friendly MPAs easily in the next few slides

SINGLE PAGE
APPLICATIONS

VS

MULTIPLE PAGE
APPLICATIONS

Yubi | www.go-yubi.com

What is Astro?

All in one web framework for
fast & content heavy websites

- Content-focused
- SSR-first API design
- Zero JS, by default
- Edge Ready - Deploy Anywhere
- UI Agnostic - React, Preact,
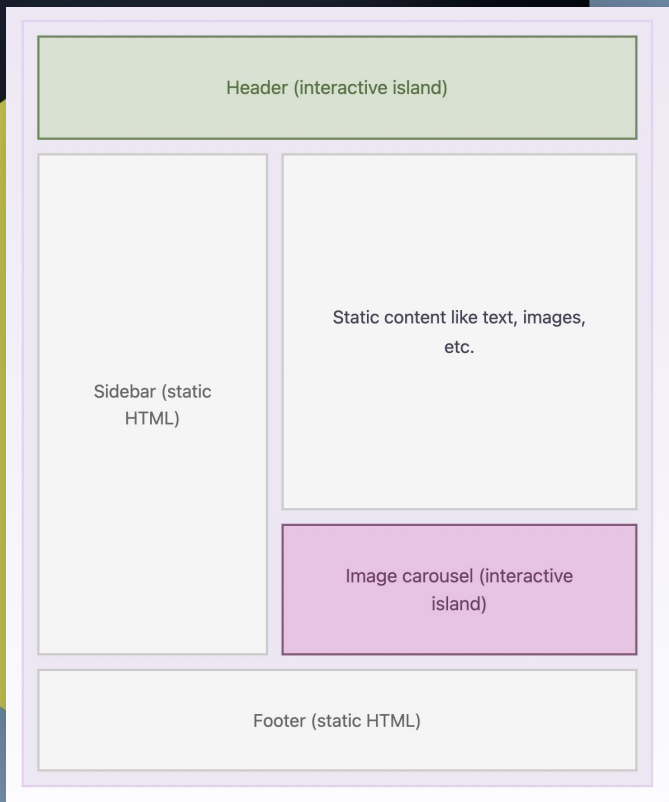 Vue, Svelte, Solid, etc.
- SEO Optimized

How astro achieves speed?

- **Strips out all JS** - No JavaScript runtime overhead to slow you down

- **Astro Island** - An interactive UI component on a static HTML page

What is Astro Island?

- Island architecture was first coined by Etsy's frontend architect Katie Sylor-Miller in 2019

- Astro Island refers to Interactive UI Components in the sea of static Non-Interactive HTML

- Island Component can be built using any frontend framework like Solid, Vue or React

- Selective or Partial Hydration of Islands using Template Directive

- May look similar to Micro Frontends, but not

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Astro Components

```astro
src/components/ButtonGroup.astro

---
import Button from './Button.astro';
---
<div>
  <Button title="Button 1" />
  <Button title="Button 2" />
  <Button title="Button 3" />
</div>
```

```astro
src/components/MyComponent.astro

---
import SomeAstroComponent from '../components/SomeAstroComponent.astro';
import SomeReactComponent from '../components/SomeReactComponent.jsx';
import someData from '../data/pokemon.json';

// Access passed-in component props, like `<X title="Hello, World" />`
const {title} = Astro.props;
// Fetch external data, even from a private API or database
const data = await fetch('SOME_SECRET_API_URL/users').then(r => r.json());
---
<!-- Your template here! -->
```

- Uses .astro extension

- Almost same JSX like syntax of React, minor differences in few attributes

- 2 main parts: Component Script & Component Template

- Uses a code fence (---) to identify the component script

```
<BuyButton client:load />
```

```
<ShowHideButton client:idle />
```

```
<HeavyImageCarousel client:visible />
```

```
<SidebarToggle client:media="(max-width: 50em)" />
```

Template Directives

- A special kind of HTML attribute available inside of any Astro component

- Includes a colon `:` in its name, using the form `x:y` (ex: client:load).

- `client` directive is used to control hydration, which has `4` `options`

`load` - Visible on page load

`visible` - Wait until visible on viewport

`idle` - Wait until initial load

`media` - Waits until media query is met

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Demo time!

How Yubi can make use of Astro?

- Community blogs

- API or Integration documentations

- Free tools for customers, like Groww's Mutual Fund Return calculators to attract SEO traffic.

- Career Portals, etc...

Thank You

www.go-yubi.com