

Using Astro



Vue.js
Frankfurt



Who am I

- I am Jan, 36 years old
- currently DevOps Engineer, doing web development since a long time
- passionate about new technologies and learning

What are we talking about today

- What is Astro ?
- Goals of Astro
- Mechanisms (Project Structure, Routing, ...)
- Things I'd like you to know about
- Future outlook
- Feedback, Questions & Open Discussion

What is Astro ?

- Static Site Generator
- Bring your own JavaScript Framework
- Islands Architecture
- HTML first build tool
- Based on Snowpack (Module Bundler, heavily relies on ES Modules)

Goals

- make better and faster webpages
 - power web applications
 - expression and possibilities of JavaScript
 - ship as less as possible through the browser (Simplicity of Webpages / Speed of Static HTML)
- have a nice developer experience

Mechanisms

- Project Structure
- Astro files (pages / components without runtime)
- Markdown OOB
- Hydration
- Routing

Initializing a new project

```
# create your project  
mkdir new-project-directory
```

```
cd new-project-directory  
npm init astro
```

```
# install your dependencies  
npm install
```

```
# start the dev server and open your browser  
npm start
```

Project Structure



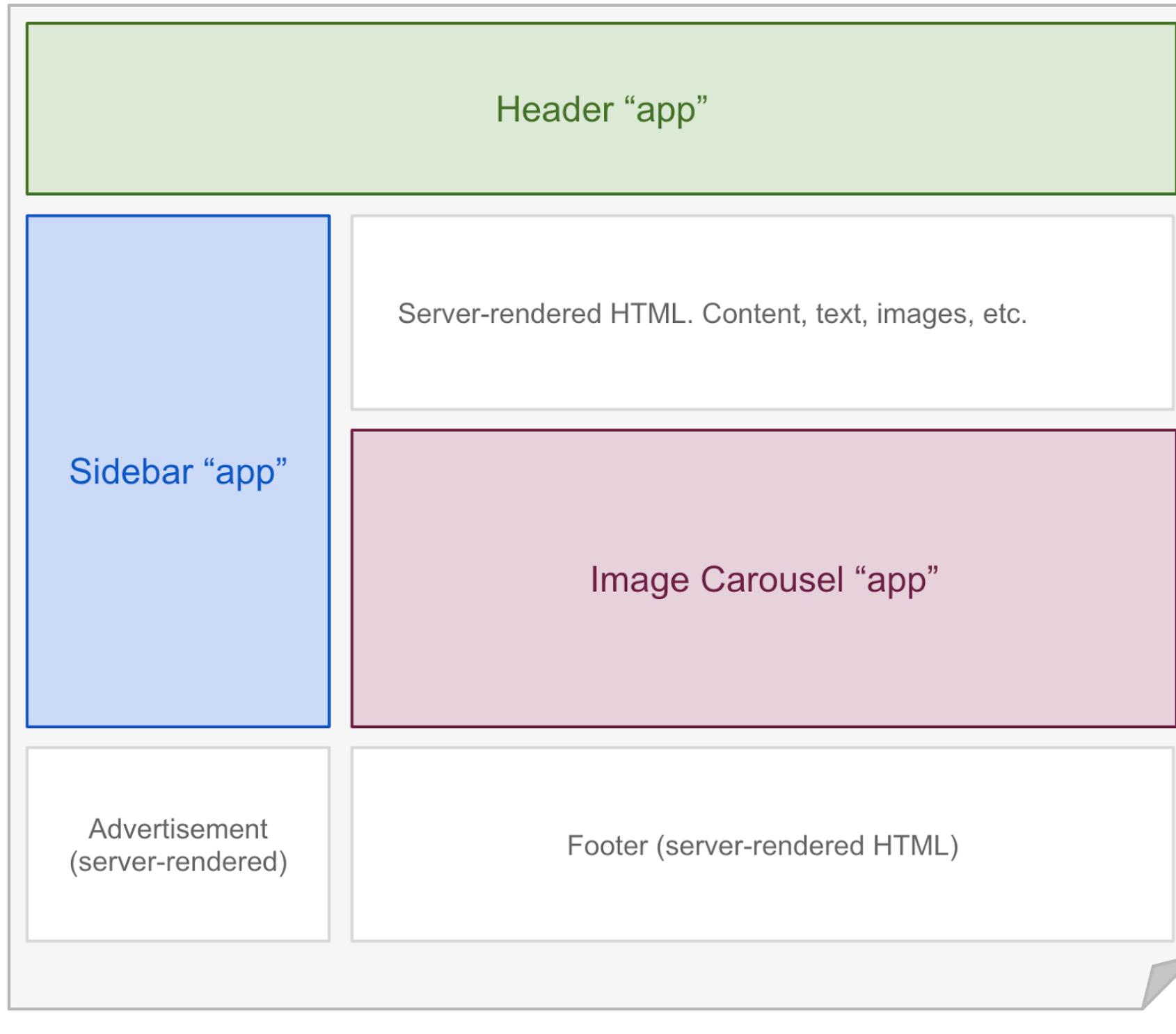
Astro files

- have the ``.astro`` extension
- can be pages
- can be components
- consist of HTML
 - add frontmatter script section for server side rendering
 - add JSX for templating



Markdown Support

Islands architecture & Partial Hydration



Where is Vue ?

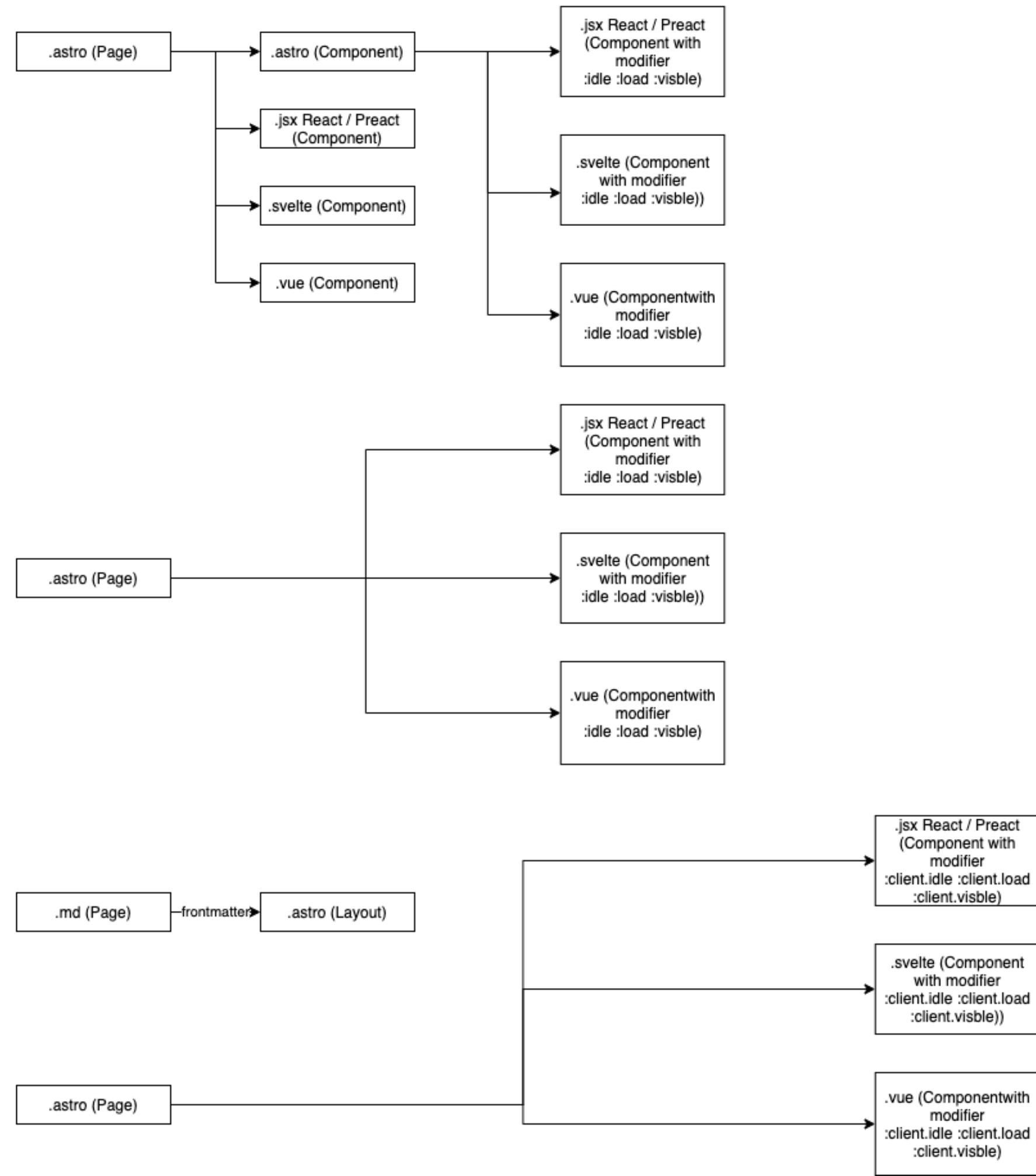
Let's integrate Vue in our project...

Routing

Server Side Rendering (SSR)

Server Side Rendering (SSR)
+ Client Side Rendering through
Modifier

Client Side Rendering (TBD)



Other features I want you to know about

- Collections API
- Tailwind support
- Generation of sitemap.xml
- State libraries (Vuex)
- Styling

Framework	Global CSS	Scoped CSS	CSS Modules
Astro (`.astro`)	✓	✓	N/A
React / Preact	✓	✗	✓
Vue	✓	✓	✓
Svelte	✓	✓	✗

Future Outlook

- Currently positioned as Static Site Generator
- support of more frameworks (possible)
- mixture between static and dynamic sites (possible)
- Named Slots
- Image Support

Resources

- <https://astro.build>
- <https://github.com/snowpackjs/astro>
- <https://twitter.com/astrodotbuild>
- <https://css-tricks.com/astro/>

Join Discord

- <https://astro.build/chat>

Show Cases

- <https://divriots.com>
- <https://navillus.dev>
- <https://aseemtaneja.com/why-i-built-my-blog-with-astro/>

Thank you for listening
Feedback, Questions & Open Discussion