STATIC SITES THROUGH SPAS AND GRAPHQL

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Low Earth Orbit

superawesomelabs/leo

STATIC SITES

- Templating
- Styling
- Data Model
- Universal Apps
- Routing
- PWAs
- Low Earth Orbit

TEMPLATING

liquid, jsx, handlebars, etc

LIQUID

```
No sision call — site content %)

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(is assign canta) — site popular is popular in site popular in canta site for significant in site popular in canta site for significant in site popular in s
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http://localhost:3000/#/?export&

JSX

```
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```

REACT

FLOW

```
 \begin{array}{lll} & \text{const invaderable} & \cdot (\text{bossin'}, \text{url}) : \{ \text{bossin'}: \mathbb{R} \text{l}, \text{url}: \mathbb{R} \text{l}, \} \} \Rightarrow ( & \text{all classNows-Preservative}) & \text{class invertible of the preservation of the preservation
```



CSS, SASS, CSS Modules, Glamor

CSS

f1 { font-size: 1rem };
red { background: red };
f1.red { font-size: 2rem };

div class="f1 red"> I'm red and 2rem!

PROBLEMS WITH CSS AT SCALE

- Global Namespace
- Dependencies
- Dead Code Elimination
- Minification
- Sharing Constants
- Non-deterministic Resolution
- Isolation

- React: CSS in JS by vjeux

CSS MODULES

.red { background: red }; .flred { composes: red; font-size: 2rem };

<div class="Thing__f1red_h83sn">
 I'm red and 2rem!

GLAMOR (REPLICATING CSS)

const f1 = css({ fontSize: '!rem' });
const red = css({ background: 'red' });
const fiRed = css({
 ['8.\${f1}.\${red}']: { fontSize: '2rem' }
}

// ...but you still have to use all three selectors div class={`\${f1} \${red} \${f1red}`}></div>

GLAMOR

// On use merge to output a single cas selector
const f1 = css({ fontSize: '1rem' });
const red = css({ bockground: 'red' });
const f1Red = css(f1, red, { fontSize: '2rem' })

div class={rule}></div

http://localhost:3000/#/?export&

DATA MODEL

.md, .json, APIs and GraphQL

CONTENT DATABASE

const data = [
Markdown,
Yaml,
JSON,
Latex,
GitHub API,
Contentful Posts

JSON MODEL

const Markdown = {
 attributes: {
 ifirst Post',
 stag: 'my-first-post',
 unl: 'my-first-post',
 },
 file: {
 jobsts/my-first-post.md',
 body: 'dhbthingo/mb...',
 camadog: 'ghthingo/mb...',
 camadog: 'ghthingomb...',
 camadog: 'ghthingomb...',

QUERY RESULT

{
 attributes: {
 title: 'My First Post',
 slug: 'my-first-post',
 },
 body: '<hl>thing</hl>...'

CONTENT TYPES

type Markdown { attributes: MarkdownAttributes body: HTML rawBody: RawMarkdown }

AUTO-GENERATED FILTERING APIS



UNIVERSAL APPS

SSR vs Static

UNIVERSAL CODE

- Render on Server and Client
- Unified Routing Code Sharing
- **Unified Data Layer**

UNIVERSAL RENDERING

ReactDOM.render(<App />, document.getElementById("content"));

UI FRAMEWORKS SUPPORT UNIVERSAL RENDERING

- React
- Preact
- Inferno
- Angular 2
- Ember
- Vue.js
- ...

UNIFIED ROUTING

http://localhost:3000/#/?export&

CODE SHARING



URL Generation and Rendering

URL GENERATION

- dirs&paths
- Content
- Post Processing

UI AS FUNCTION OF URL

LOW EARTH ORBIT

A Library for Building Static Site Generators

- Acquire Data Process Data
- Expose Data as GraphQL API Extract URLs from Data
- Webpack Bundles
- Static Bundle (URL)

- Webpack
- Plugins
- Data Processing GraphQL
- Pluggable Scaffolding
- Content Types and Sources
 Decoupling Editing, Rendering, and Storage

... Jekyll is not meant to be included in a build process. Jekyll was created to *be* the build process

- Smashing Magazine

LEO PLUGINS

- index
- process
- schema
- loader

GRAPHQL

PLUGGABLE SCAFFOLDING



FIN

- @chrisbiscardi

- superawesomelabs/leo [webpack] 3:45; Track 2 [universal apps] 4:35; Track 2