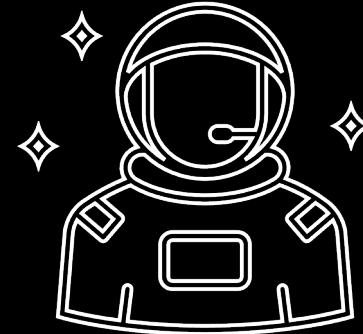


Building an UI Component- Library with Vue, Tailwind and Storybook

Vueconf.US 2021

Lightning Talk by Anton Reindl

14-04-2021



About Me

About Me



Anton Reindl

Software Developer & Architect

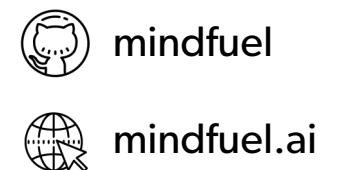


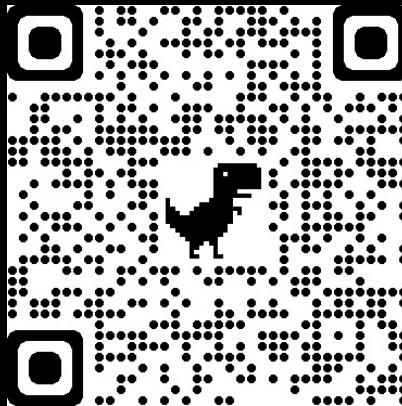
MINDFUEL



Mindfuel

A Datapreneurship Studio.





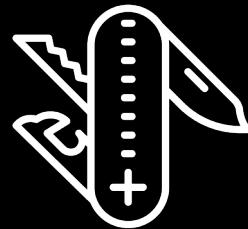
**Slides &
Examples**

Will be
updated
over time



[arendl/vueconf-build-a-component-library](https://github.com/arendl/vueconf-build-a-component-library)

MINDFUEL



Why build a component library?

Why.

In our case, the original need was arising when we had to build a new product for the same client using the same UI – how can we share our UI components?



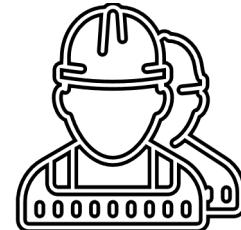
Provide Rails for both design and code

- Implement a custom design system
- Build only what you really need



Good UX is crucial for adoption

- Control every edge of UI & UX
- Develop utility-first



Separation of Concerns

- Tools & technologies best suited to the problem and engineered in self-contained teams
- Keep your codebase(s) clean and loosely coupled

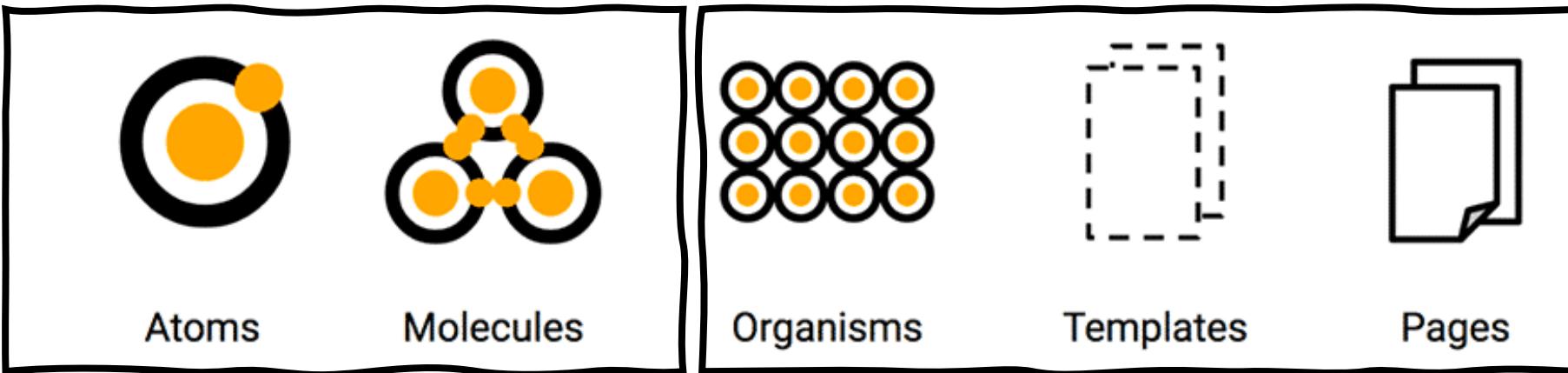


Ok! How do we build it?

„We’re not designing pages, we’re designing systems of components.“

- Stephan Hay

Goes to Component Library
(e.g. Button, Navbar)

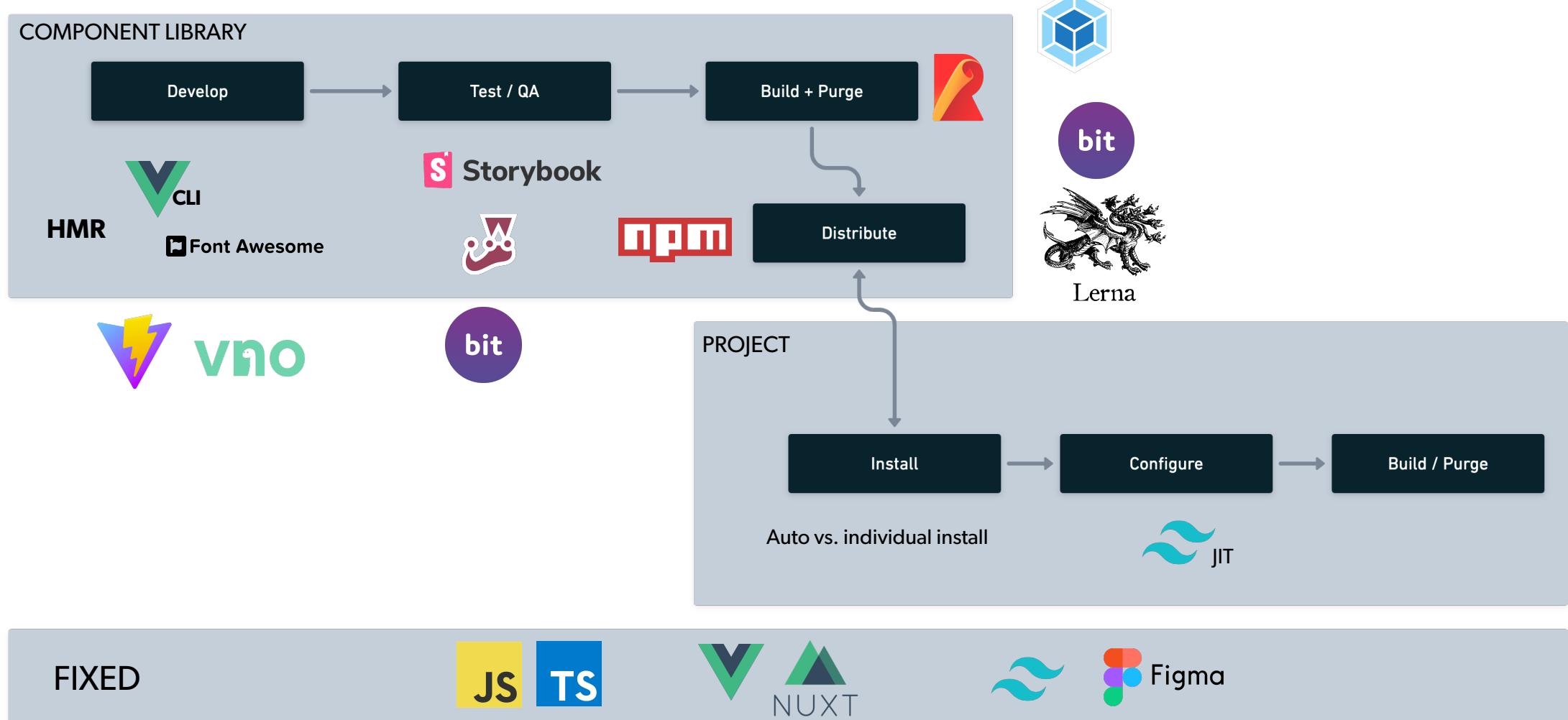


Stays in Project (e.g. Sign In Form)



If you haven't heard about Atomic Design, check out the book „Atomic Design“ by Brad Frost (2016)

Architecture Design Options



Check out Vue-SFC-Rollup

team-innovation / vue-sfc-rollup

Issues 7 Pull requests 2 Actions Projects Wiki Security Insights

master 2 branches 27 tags Go to file Add file Code

Michael Dodge Version bump	6a95b5e 2 days ago	115 commits
lib	Start work on typescript version of single component	16 months ago
templates	Merge inline es build config with that imported from babel.config.js	9 days ago
.editorconfig	eslint, consistent airbnb formatting	3 years ago
.eslintignore	Start work on typescript version of single component	16 months ago
.eslintrc.js	Update deps, fix lint warnings	8 months ago
.gitignore	Update docs, add dev-only sample file to library mode	3 years ago
CHANGELOG.md	Correct release date for 4.0.5	2 days ago
LICENSE	Add licensing information	3 years ago
README.md	Fix a couple typo's in the README	2 months ago
package-lock.json	Version bump	2 days ago
package.json	Version bump	2 days ago
sfc-init.js	Complete updates for Vue3 single mode (js and ts)	8 months ago

README.md

vue-sfc-rollup

Watch 9 Unstar 471 Fork 70

About

Quickly generate redistributable Vue components with Rollup

Readme MIT License

Releases 27

v4.0.5 Latest 2 days ago + 26 releases

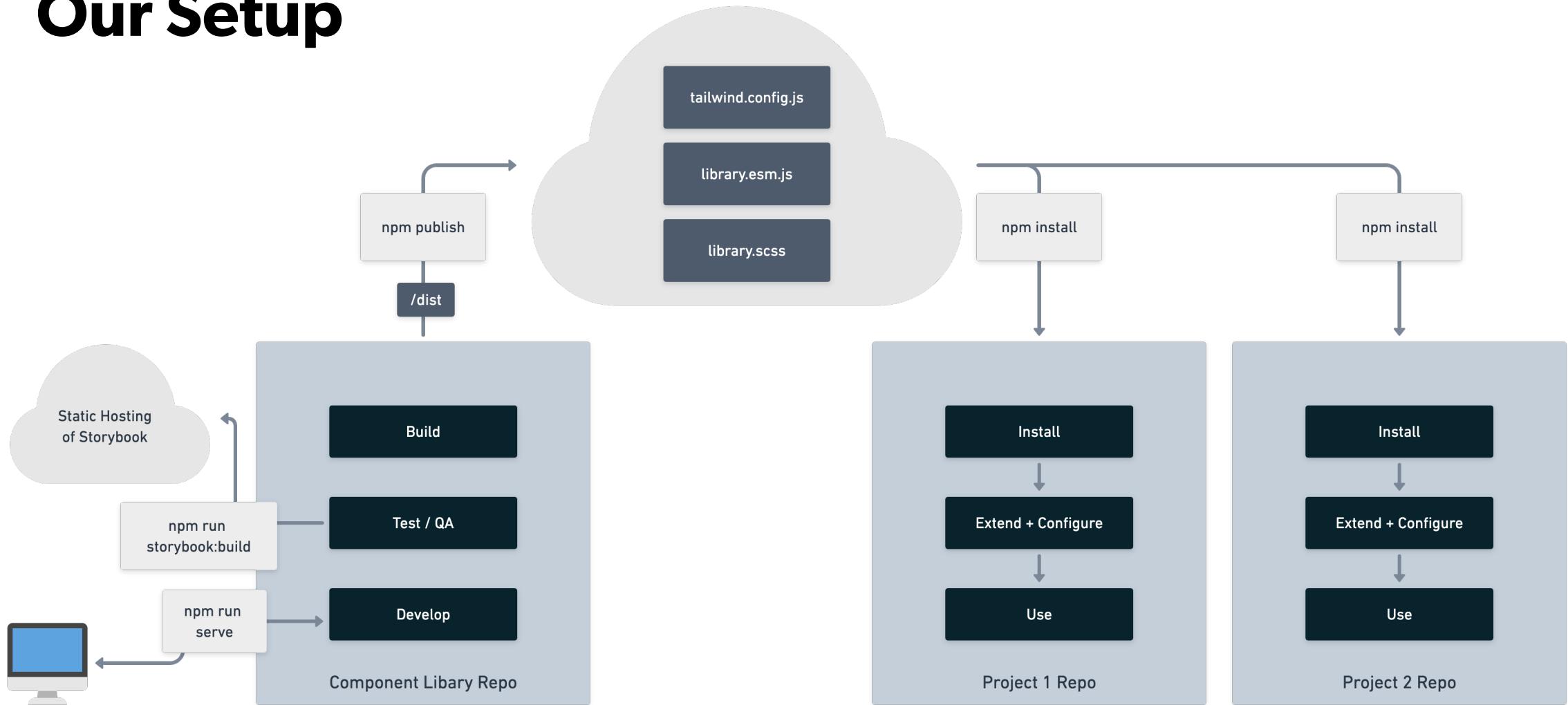
Packages

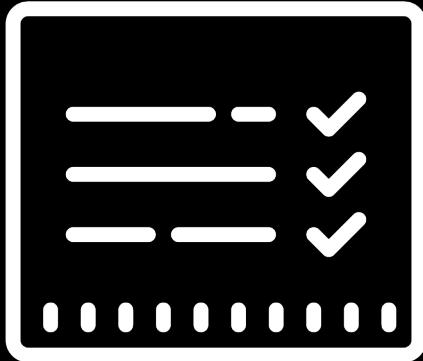
No packages published

Used by 4

MIND FUEL mgdodge

Our Setup

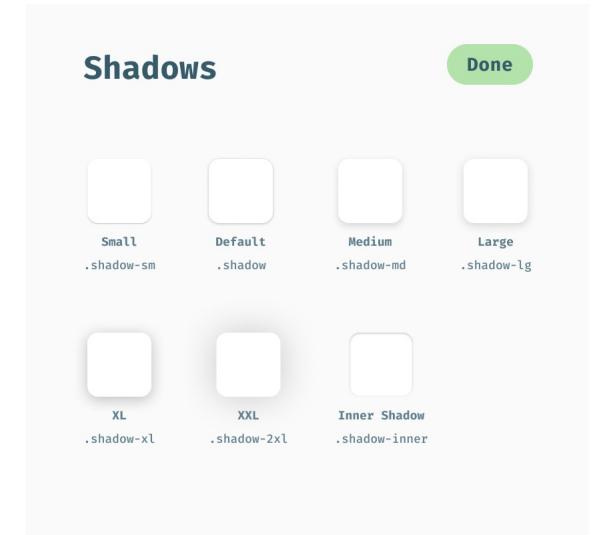
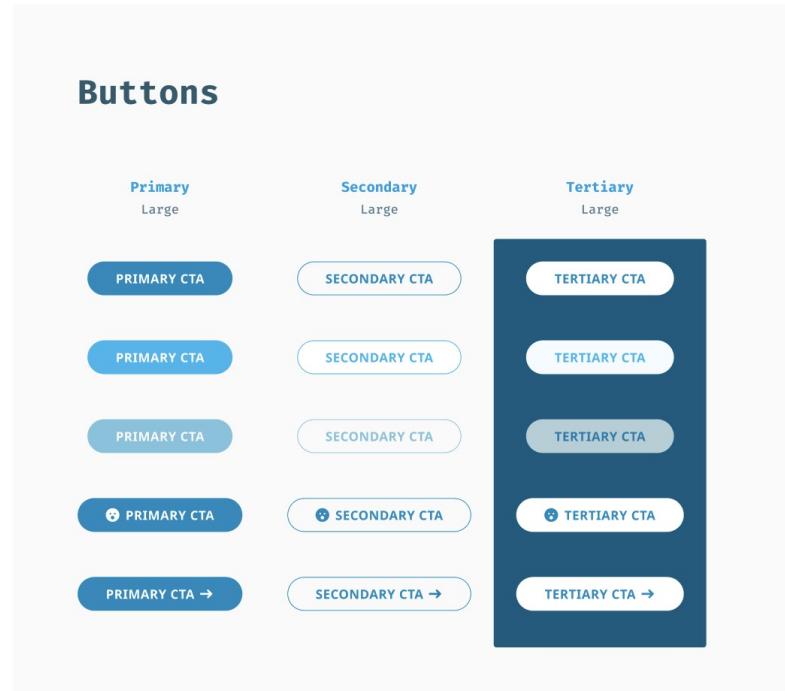
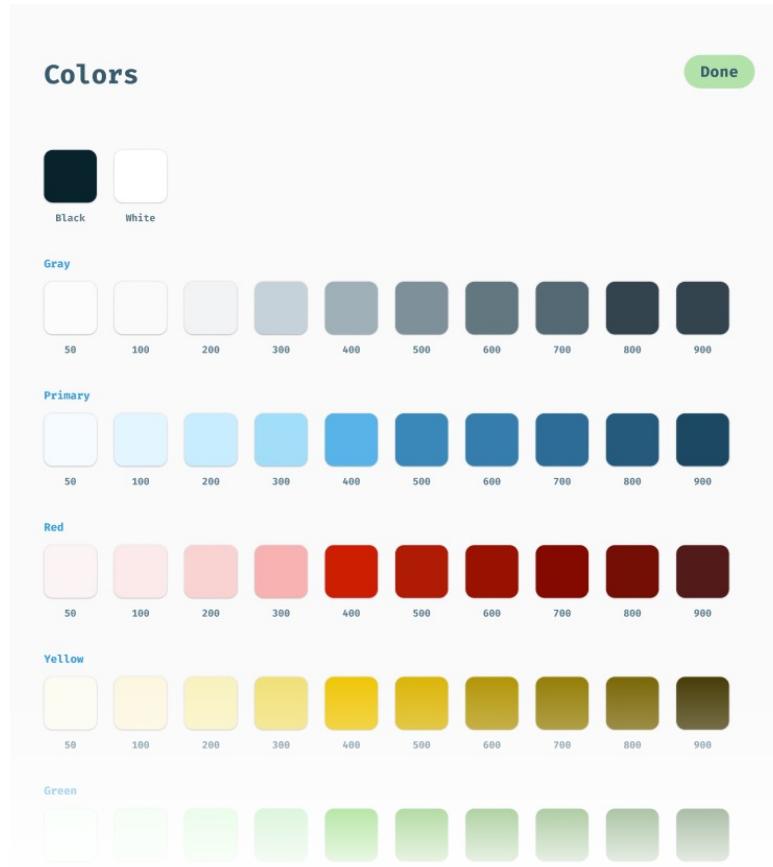




Our Result

Example: The Fuel Component Library

Fuel is a library that provides atomic user interface elements and common UX patterns.



Messages

Success

Storybook



Storybook provides an interactive and testable QA and documentation environment

A screenshot of the Storybook interface. At the top, there's a navigation bar with tabs for 'Canvas' (which is active), 'Docs', and other icons. On the left, a sidebar titled 'ATOMS' shows a tree view of components: 'Button' (selected and highlighted in blue), 'Primary', 'Secondary', 'Tertiary', 'Headline', 'FInputField', 'Input Field', 'FMessage', and 'Spinner'. Below this is a search bar with placeholder 'Find components' and a 'Search' icon. The main area is titled 'MY BUTTON' and contains a large blue button with the text 'My Button'. Below the button, there's a table titled 'Controls (3)' with columns for 'Name' and 'Control'. The controls are: 'loading' (with a toggle switch set to 'True'), 'text' (with a text input field containing 'My Button'), and 'icon' (with a dropdown menu showing 'user').

Name	Control
loading	<input type="checkbox"/> True <input checked="" type="checkbox"/> False
text	My Button
icon	user

Usage in our Project

```

<form class="signin-form space-y-8" @submit.prevent="submit">
  <f-input-field
    v-model="credentials.email"
    :placeholder="$t('email')"
    :label="$t('email')"
    type="email"
    name="email"
    :error="hasError"
    :error-message="getErrorMessage"
    @keyup.enter.native="submit"
  />

  <f-input-field
    v-model="credentials.password"
    placeholder="....."
    :label="$t('password')"
    type="password"
    name="password"
    @keyup.enter.native="submit"
  />

  <f-button class="w-full" @click="submit">{{ $t('signIn.formButtonText') }}</f-button>
</form>
<p class="text-center mt-5">
  <nuxt-link to="passwordReset" class="text-link">{{ $t('signIn.forgotPasswordLinkText') }}</nuxt-link>
</p>

```



Sign In

E-Mail

Password

SIGN IN

[Forgot Password?](#)

Anton Reindl

Senior Developer & Architect



areindl



@areindl

Thank you!

MINDFUEL



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80801 München
Germany

We hire
remote Devs!