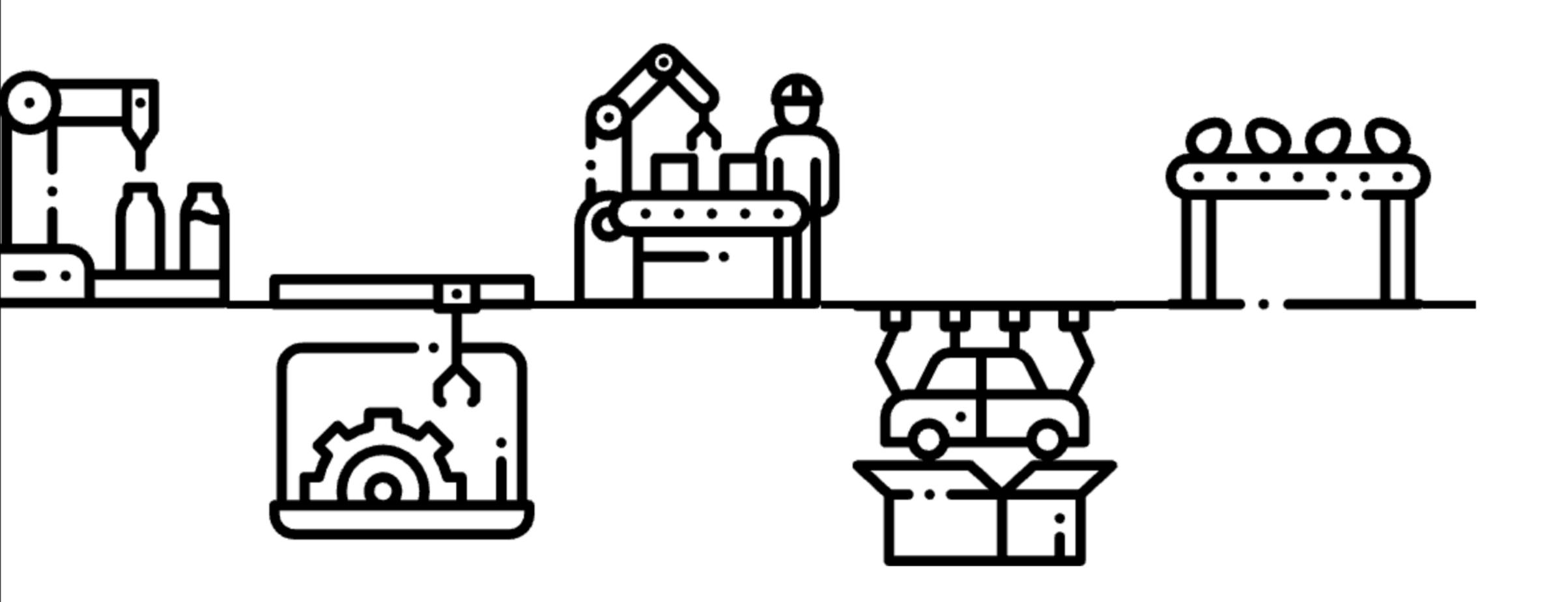
A Practical Guide

TO BUILDING YOUR

Design System Infrastructure









VARYA STEPANOVA

Expert in Design Systems

Frontend enginner, service designer

Contacts



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Areas of expertise

Design systems: production and governance,

pattern libraries, style guides, UI/UX, front end.



DESIGN SYSTEM AT - CUST-

- Library of CSS components
- Libraries of React components
- Ul kit
- Shared tools and practices
- Great design community
- World-class front-end teams

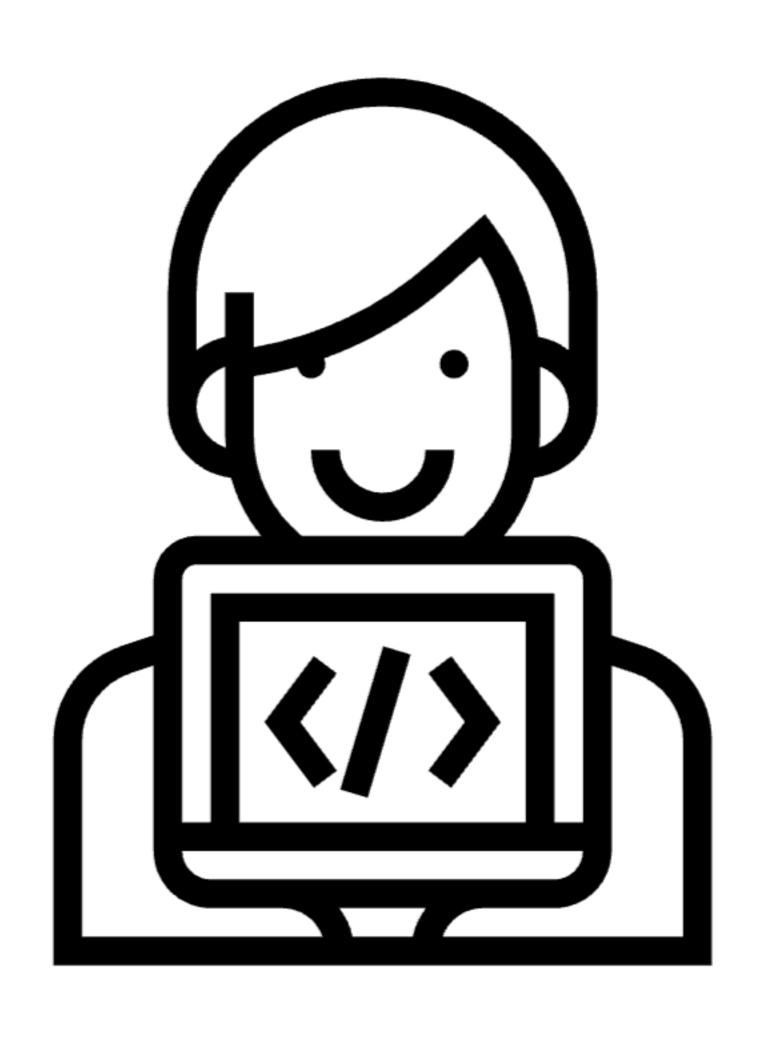


WHAT IS DESIGN SYSTEMS?

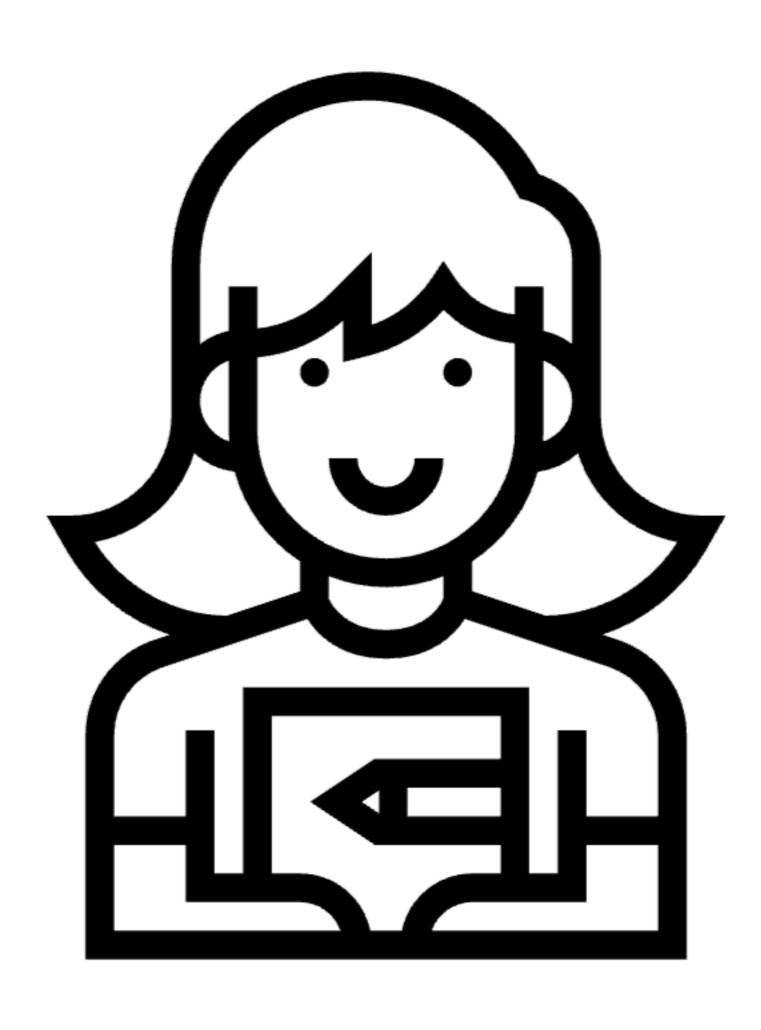




WHAT IS IT FOR ME?





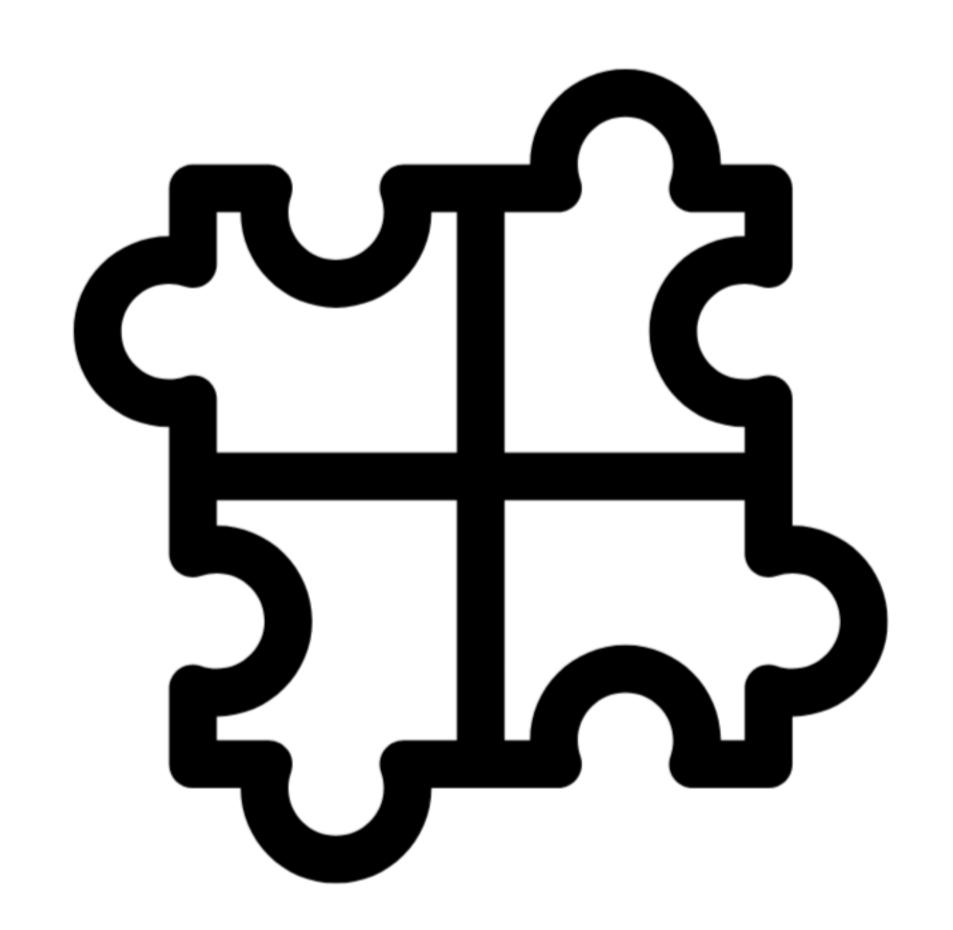


- Release notes
- Documentation

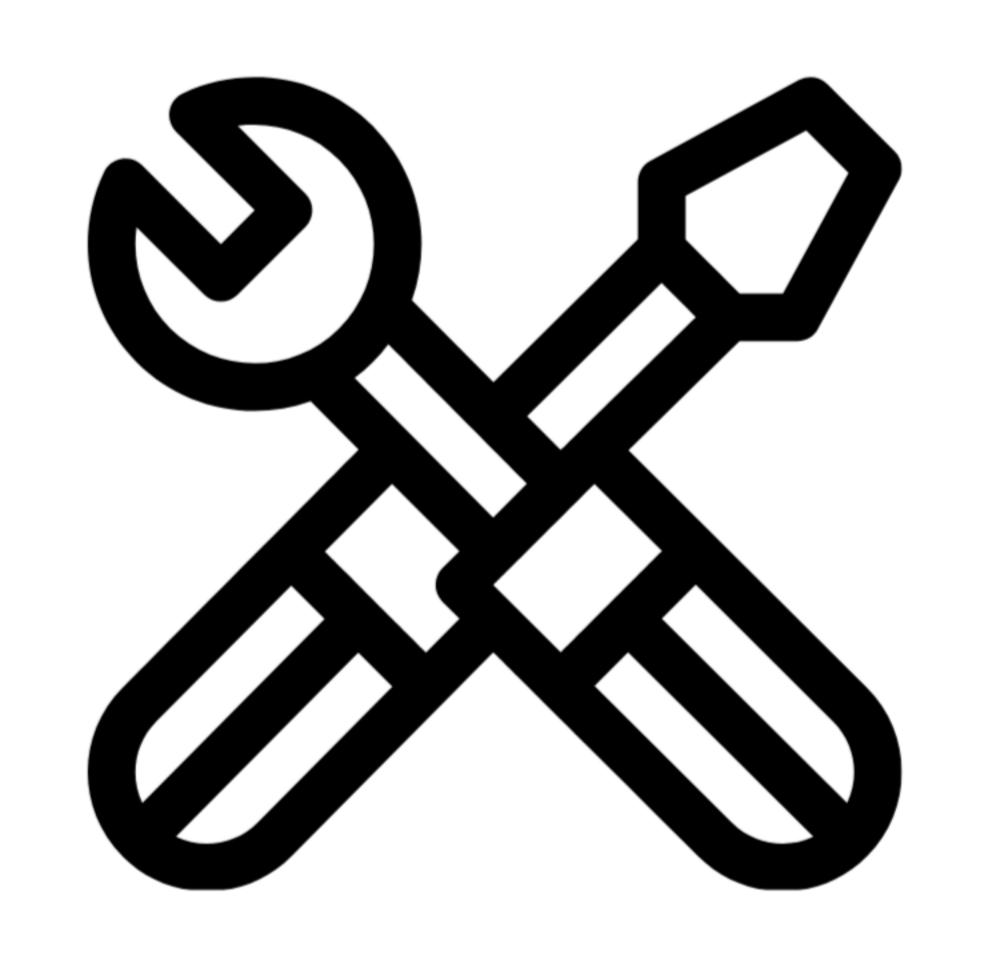
- Tone of voice
- Design specs

- Strategy
- Roadmap





shared practices

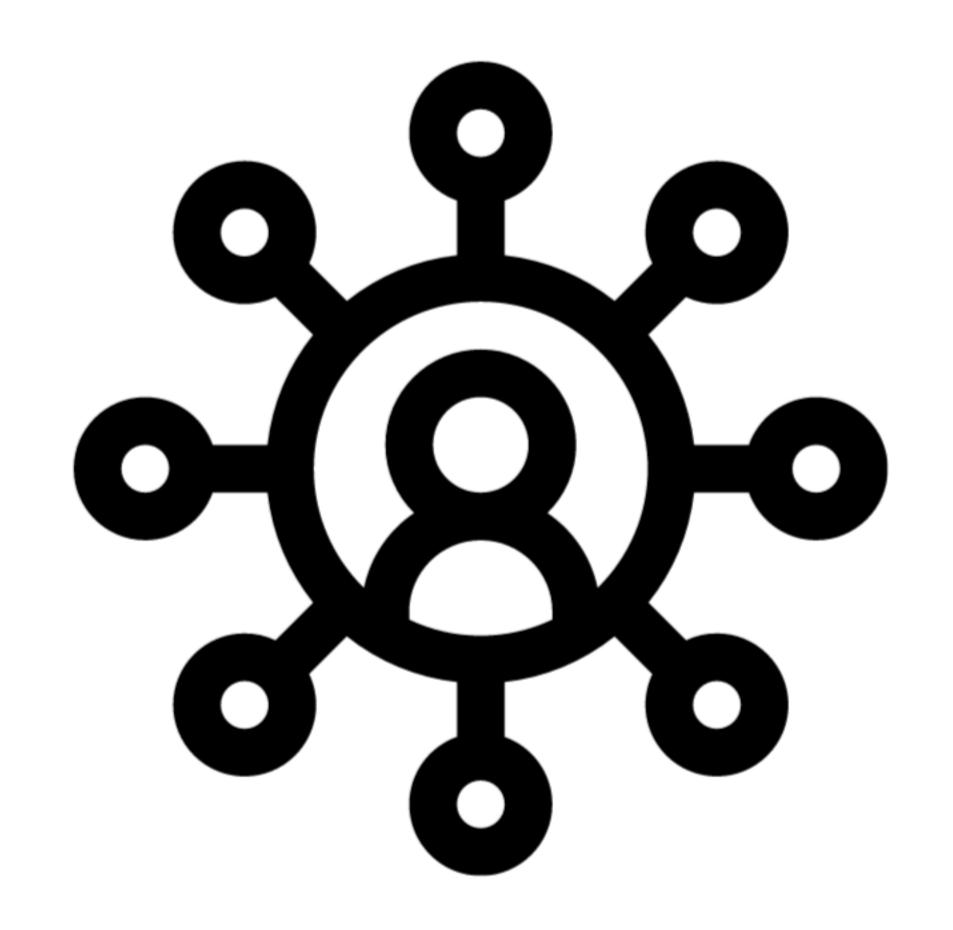


- shared practices
- tools



- shared practices
- tools
- processes





- shared practices
- tools
- processes
- community

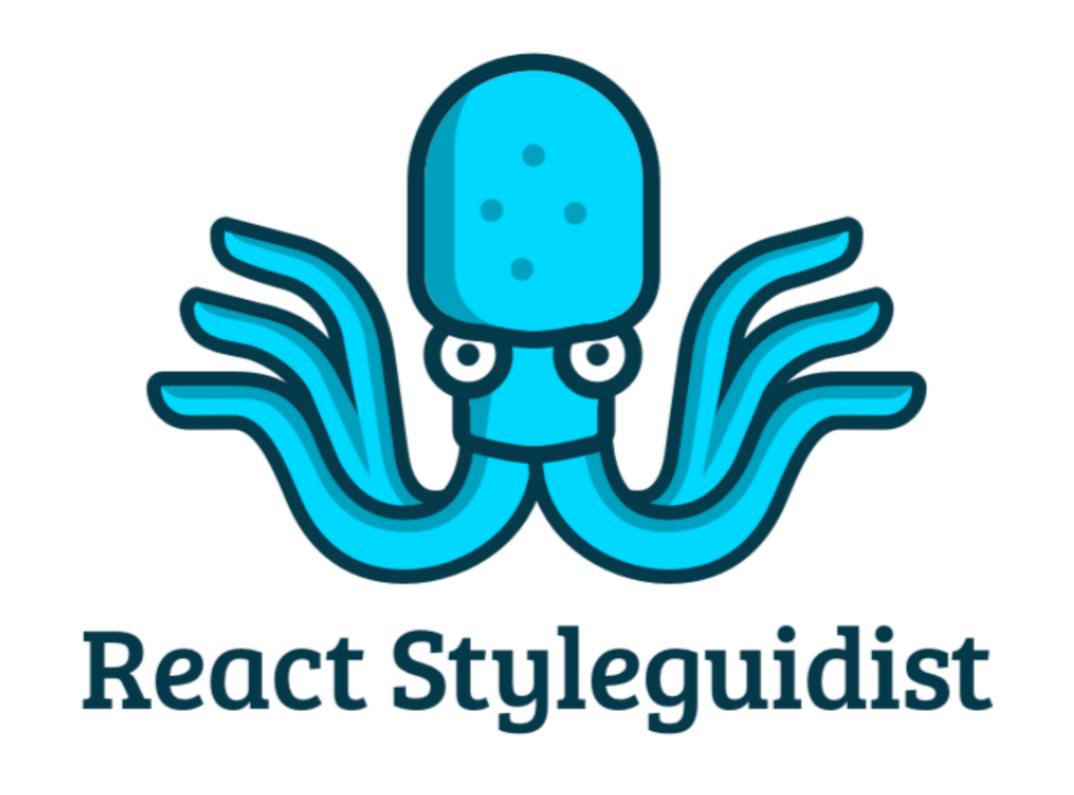


TO REACT OR NOT TO REACT?





LIVING STYLE GUIDES







Only for React libraries or..?



HOW TO DOCUMENT?

```
brand-button.scss

BrandButton.md

# Brand button

# Brand button

**Chutton

# Brand button

**Chutton

# Brand button

**Chutton

# Brand button

**Chutton

**Click here!

**Click here!

**Click here!

**Click here!

**Chutton>

**Click here!

**Chutton>

**Click here!
```



REACT FOR NON-REACT

- Parse code snippets
- Reactify

```
<button class="myButton">
<button className="myButton" />
```

- Create stories
- Automate







REACT

= FRIENDLY ENVIRONMENT AND TOOLS

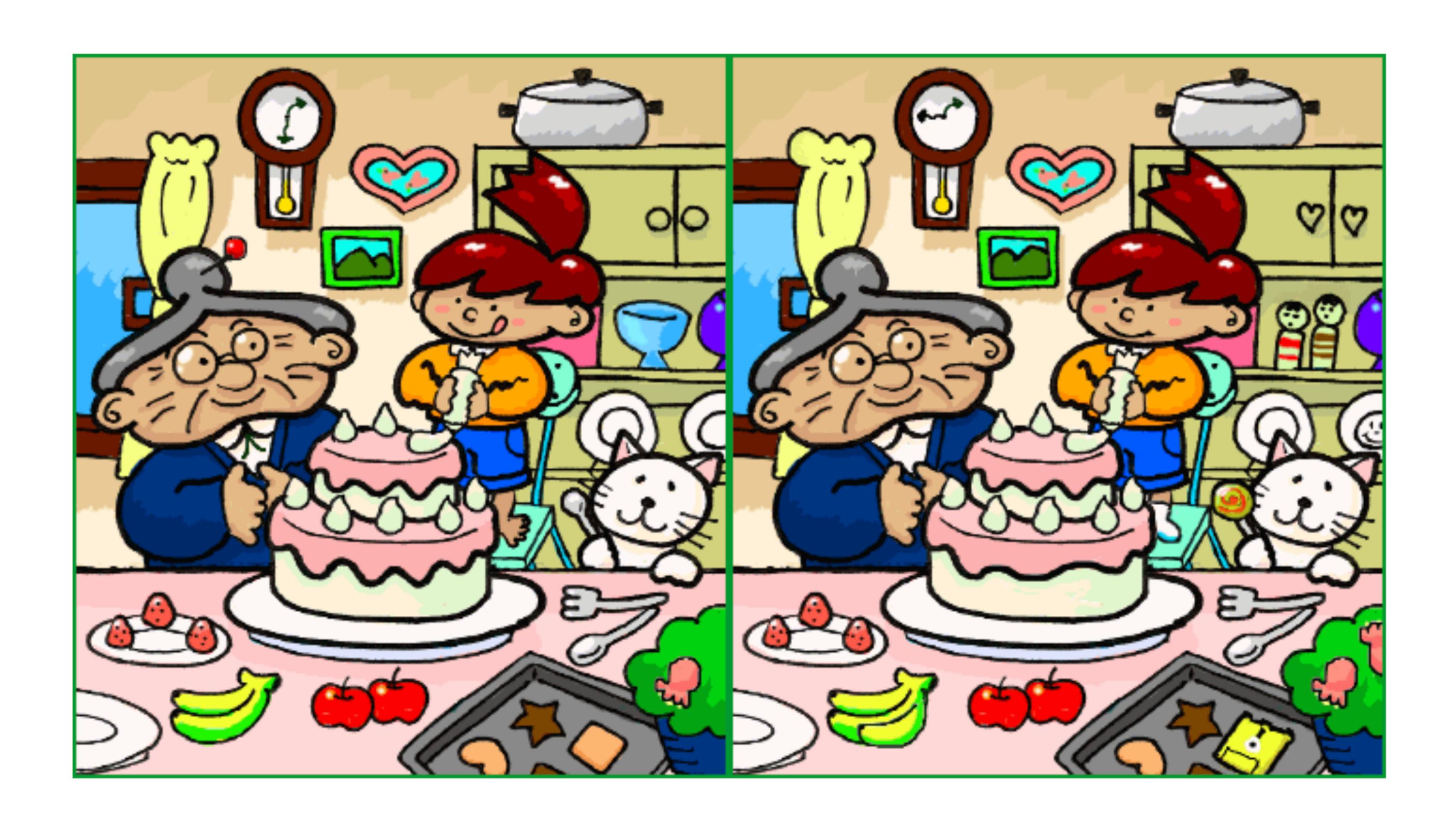
- Development playground
- Autogenerated docs
- Plugins







VISUAL REGRESSION TESTS





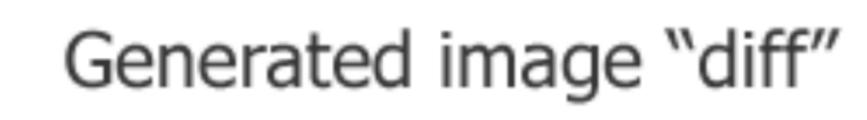
Before update: Name Corp Features Tour FAGS About Contact Us The fox jumps over the lazy dog Lorem ipsum dolor sit amet, consectetuer adipiscing elit, sed diam nonummy Sign Up Today After update: Acme Corp Features Tour FAGS About Contact Us

The fox jumps over the lazy dog

Lorem ipsum dolor sit amet, consectetuer adipiscing elit,

sed diam nonummy

Sign Up Today 🗢





with Styleguidist or Storybook

GET VISUAL TESTS WITH ONE NPM INSTALL



STYLE GUIDE vs DESIGN SYSTEM







DESIGN SYSTEMS

Connecting People

SINGLE POINT OF TRUTH



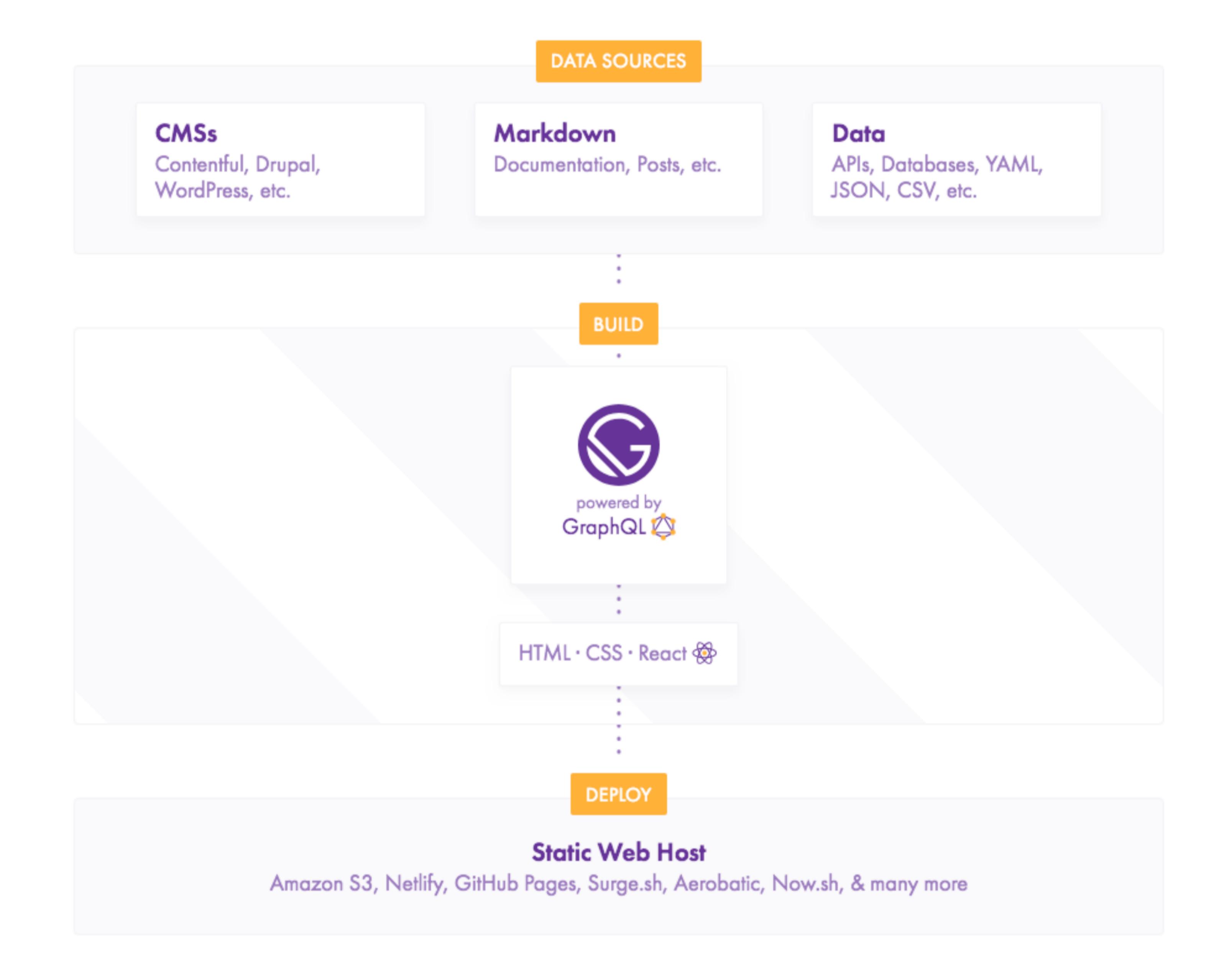


DESIGN SYSTEM WEBSITE

patterns visual language processes
community design tokens notes design principles
documentation guidelines naming conventions
brand vocabulary changelog









DESIGN SYSTEM WEBSITE

example of structure

```
content/
  pages/
  docs/
  about/
    team/index.md
    workflow/index.md
  index.md
  posts/
  welcome-to-new-ds-website/
  index.md
  thumb.png
```

- Home
- Docs
- Style Guide
- Blog
- About



USE YOUR SUPERPOWERS





REACT COMPONENTS IN TEXTS

components/BodyText.js

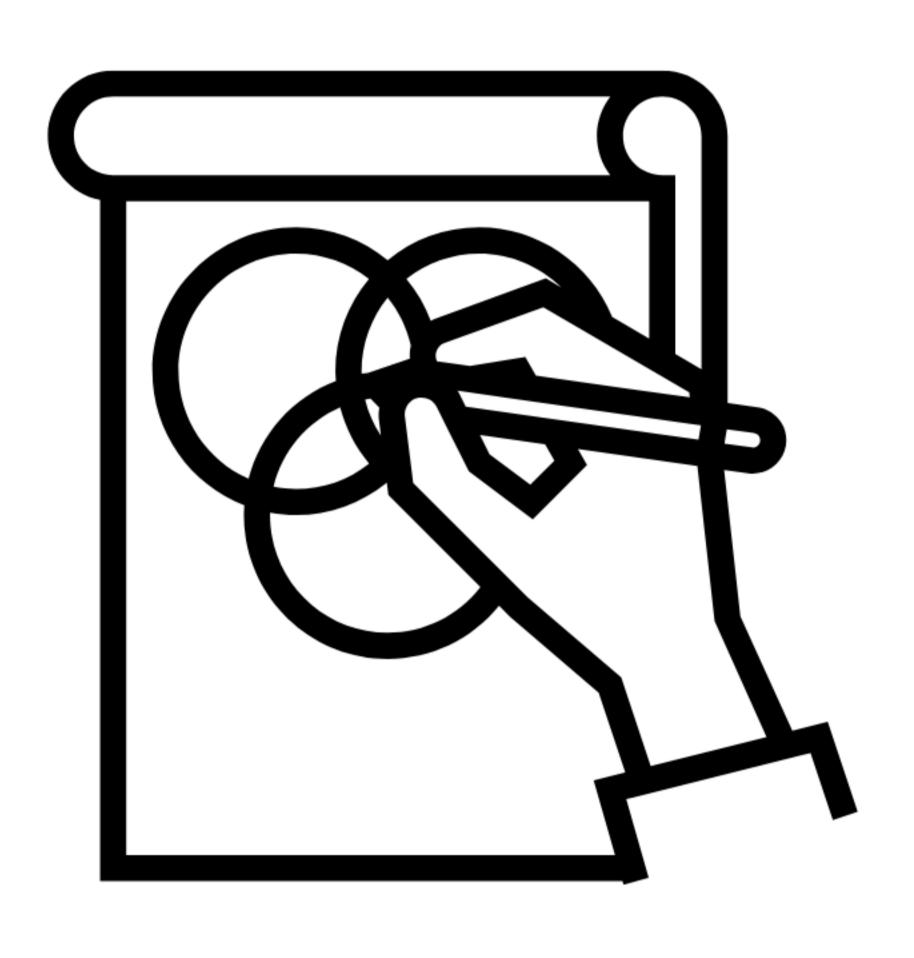
const renderAst = new rehypeReact({
 createElement: React.createElement,
 components: {
 'comp-my-button': MyButton,
 },
}).Compiler;

```
pages/my-page/index.md

title: Title of your page
---
Page text and living
<comp-my-button>
```



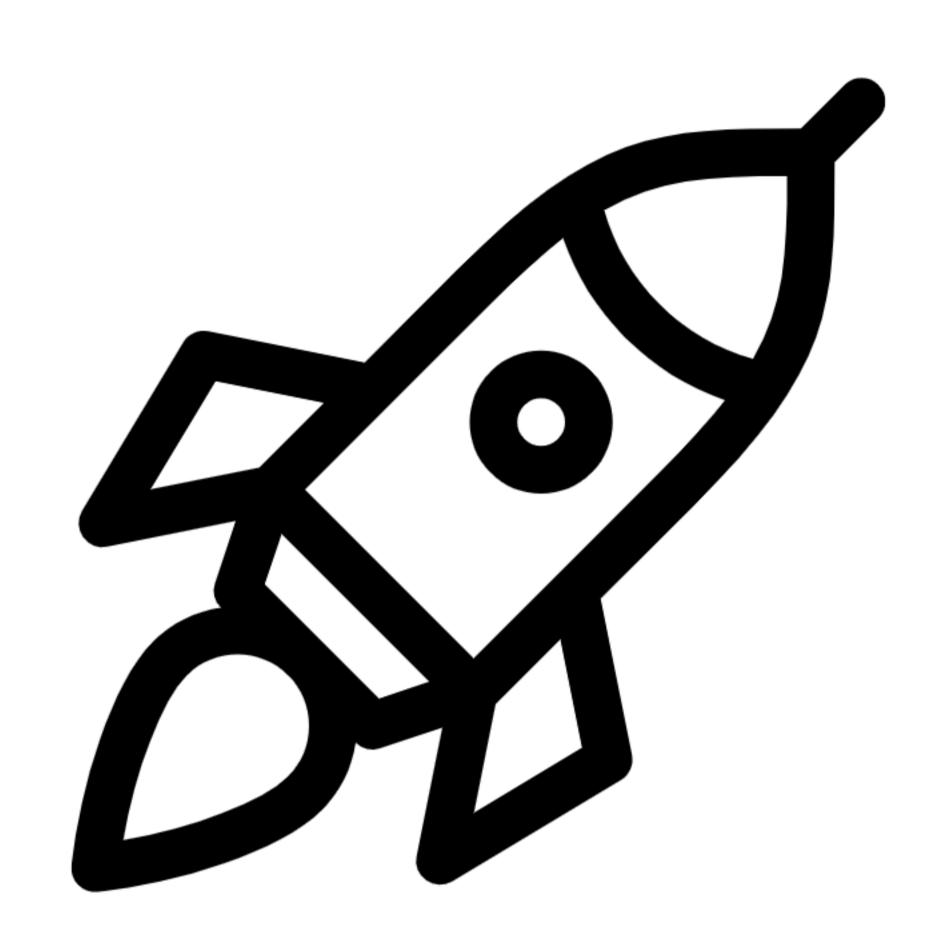
CUSTOM REACT COMPONENTS



- Interactive schemas
- Adjustable docs
- Cartoons
- EntertainersProblem solvers



INTERACTIVE CHANGELOG?



Get plain data from GitHub

and represent it with a friendly interface!

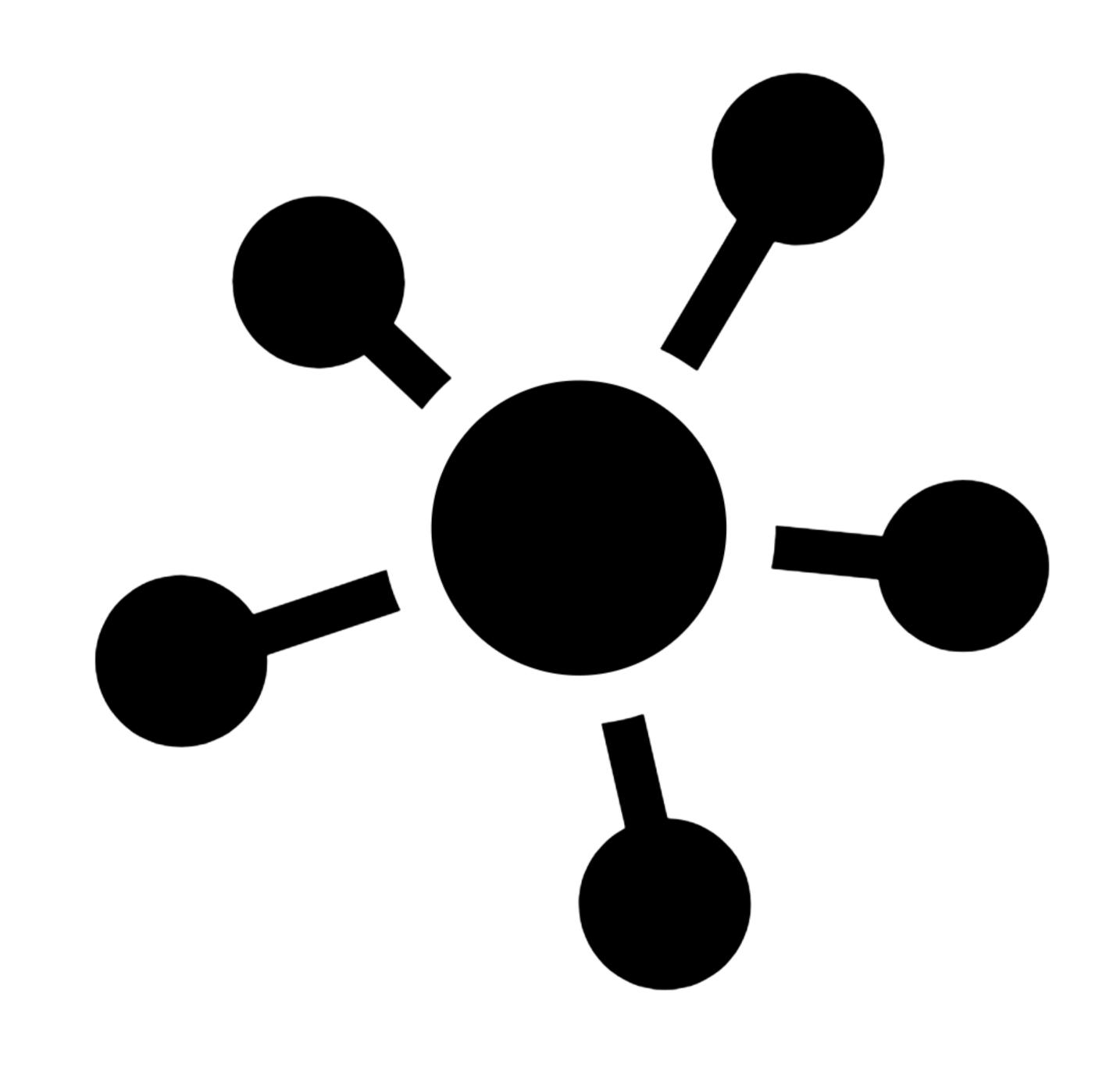


ONE SINGLE POINT OF TRUTH

EXTRACT INFO FROM PACKAGES AND REPOS

Make your design system website a place where all the infocan be found at any time.

Display markdown from libraries, tools and related repositories on the website pages.





LITTLE BIT MORE





WELCOME TO CONTRIBUTE

INPUT

```
<input placeholder="Placeholder Text"
  class="input" type="text" value="" />
```

Text inputs are accompanied by a label and wrapped inside a fieldset. The :hover and :focus styles follow our brand colors.

Edit this page on GitHub



REWARD THE CONTRIBUTORS

INPUT

25.04.2019 · Contributors ()







```
<input placeholder="Placeholder Text"</pre>
    class="input" type="text" value="" />
```

Text inputs are accompanied by a label and wrapped inside a fieldset. The :hover and :focus styles follow our brand colors.

Edit this page on GitHub

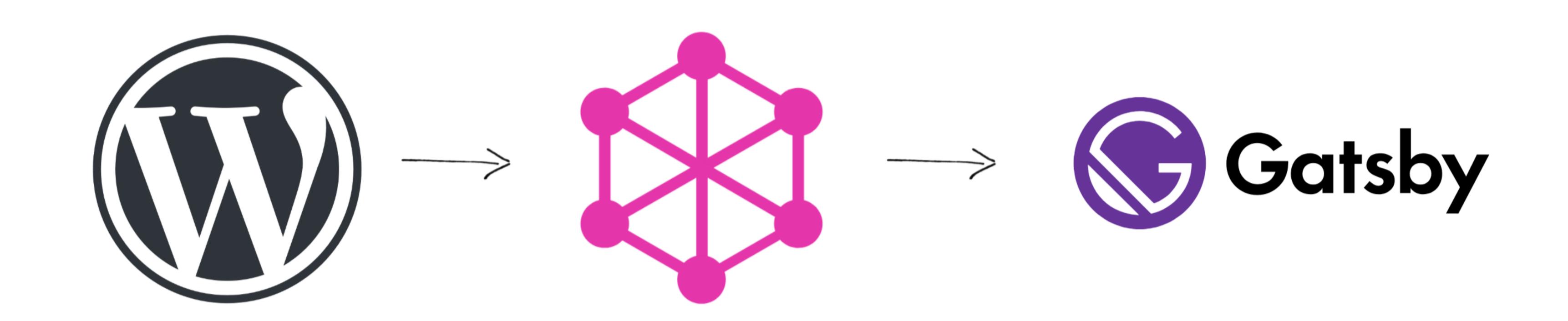


SHARE INFORMATION



- Announcements
- Plans and strategies
- Involving the community
- Everyone takes stage

CHERISH IN-HOUSE BLOGGING



GIVE FAMILIAR INTERFACE

People are not used to writing markdown and edit files on GitHub?

Offer them **Wordpress as a source** for your design system website blog.



SHOW META DATA





WHAT IS OUR DESIGN SYSTEM





- Crawl repositories
- Inject scripts on production
- Grab data from task managers

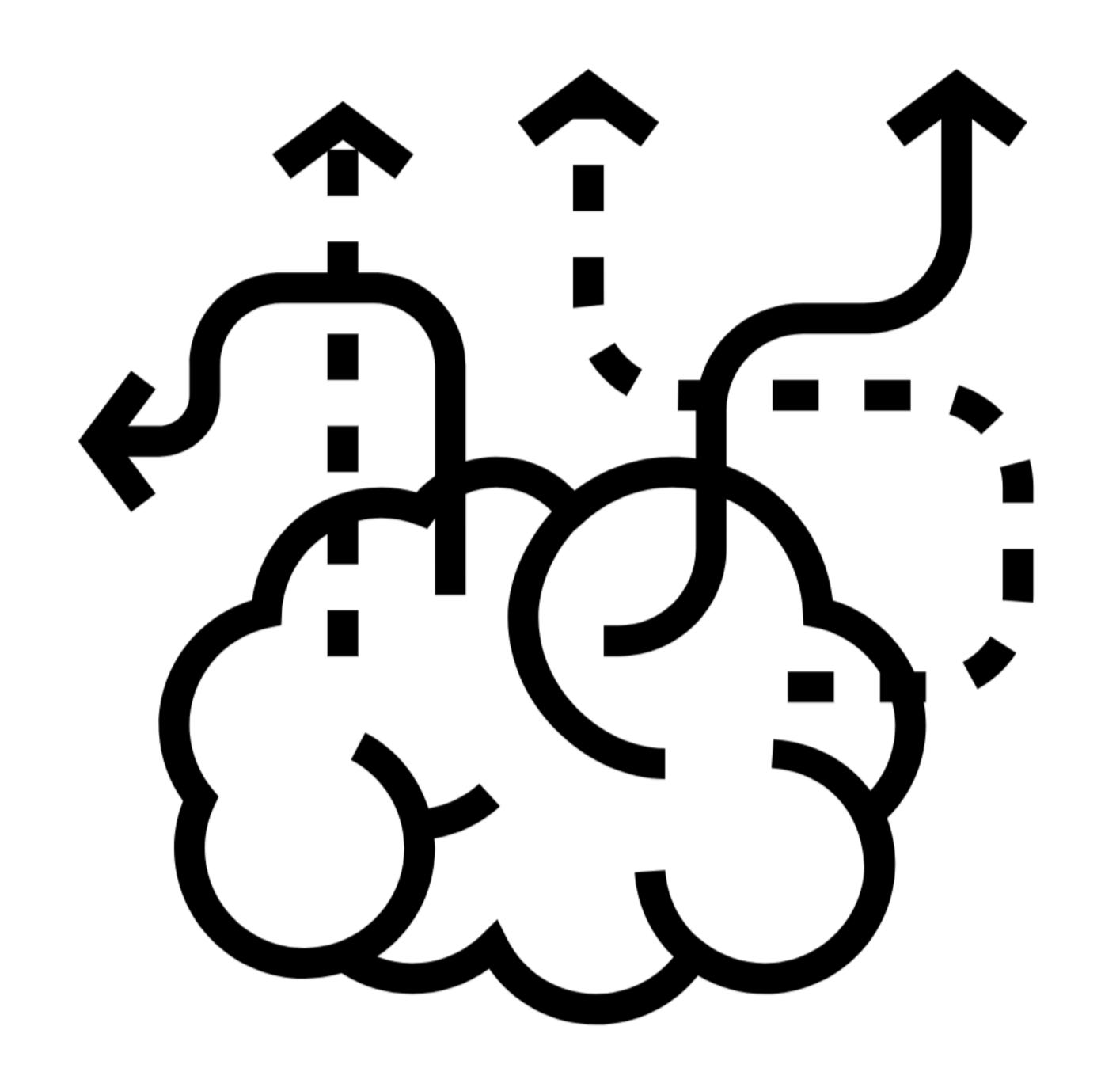


SHOW THE DATA

- Numbers
- Links
- Charts



DESIGN SYSTEMS AS A SERVICE





THANK YOU



A PRACTICAL GUIDE TO BUILDING YOUR DESIGN SYSTEM INFRASTRUCTURE

Slides: varya.me/react-finland-2019

by Varya Stepanova



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Credits

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