

ORDINA

Ahead of change



BOLD DESIGN SYSTEM ACCELERATOR

October 6, 2021



BOLD

OUR DESIGN SYSTEM ACCELERATOR

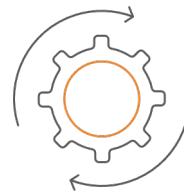
A QUICK START TOOL FOR YOUR DESIGN SYSTEM

Bold is **a thought out assemblage of tools and libraries** that allow you **to accelerate your design system**. The choice of tools, their composition, and a set of foundational components guides you on how to build a constraint-based system.



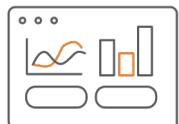
Design kit

Built and maintained in Figma, it includes a set of foundational components and a reference architecture.



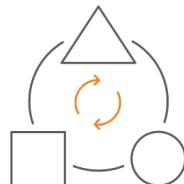
Component library

Designs created in Figma are mirrored by Web Components developed using TailwindCSS and StencilJS.



Documentation & sandbox

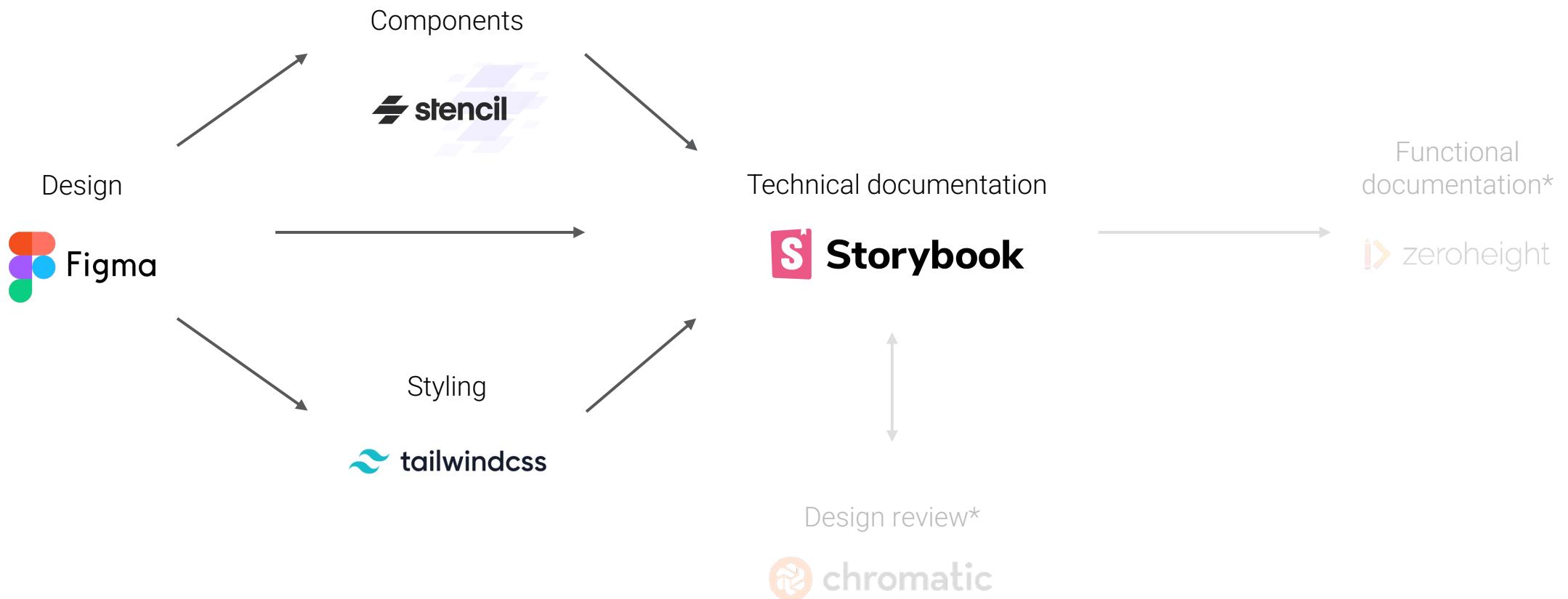
Storybook acts as both the developer sandbox and the documentation platform.



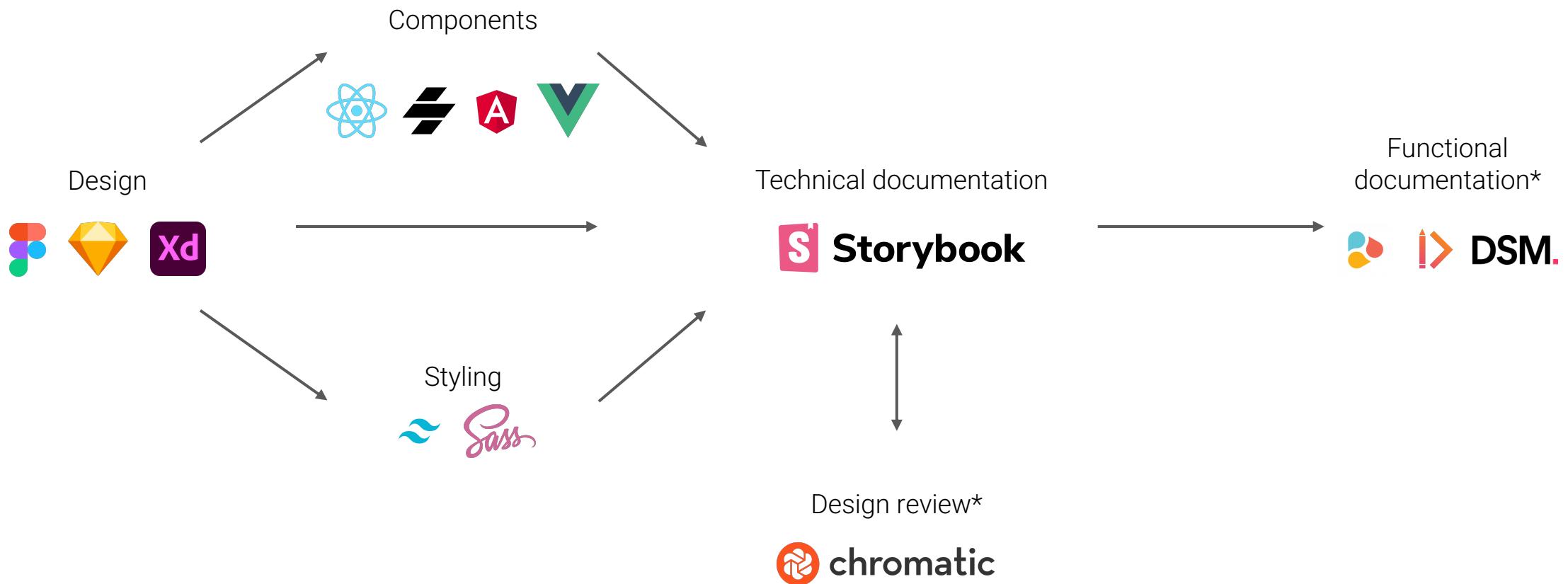
Verify, build & deploy

Azure Pipelines builds, tests and deploys Storybook as a static site.

BOLD'S POWER SOURCE, IT'S **TOOLSTACK**



BOLD'S POWER SOURCE, IT'S TOOLSTACK



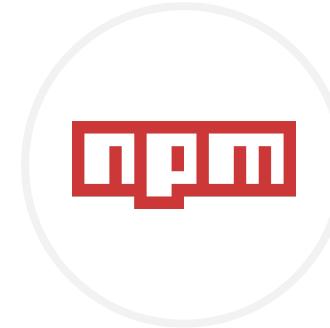
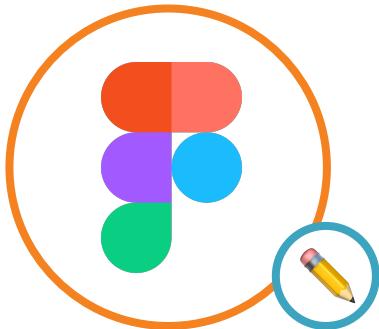
BOLDBOOK

<https://boldbook.z6.web.core.windows.net/?path=/story/bold-overview--page>

The screenshot shows the BOLDBOOK interface with the 'Docs' tab selected. On the left, there's a sidebar with a search bar and a navigation tree. The main content area is titled 'Button' and contains a description of what buttons are used for. Below the description, four button variants are shown: Primary button (orange), Secondary button (light orange), Tertiary button (light blue), and Ghost button (light gray). A 'Show code' button is located at the bottom right of this section. The main content area also has a title 'Properties' and a table with columns for name, description, default, and control.

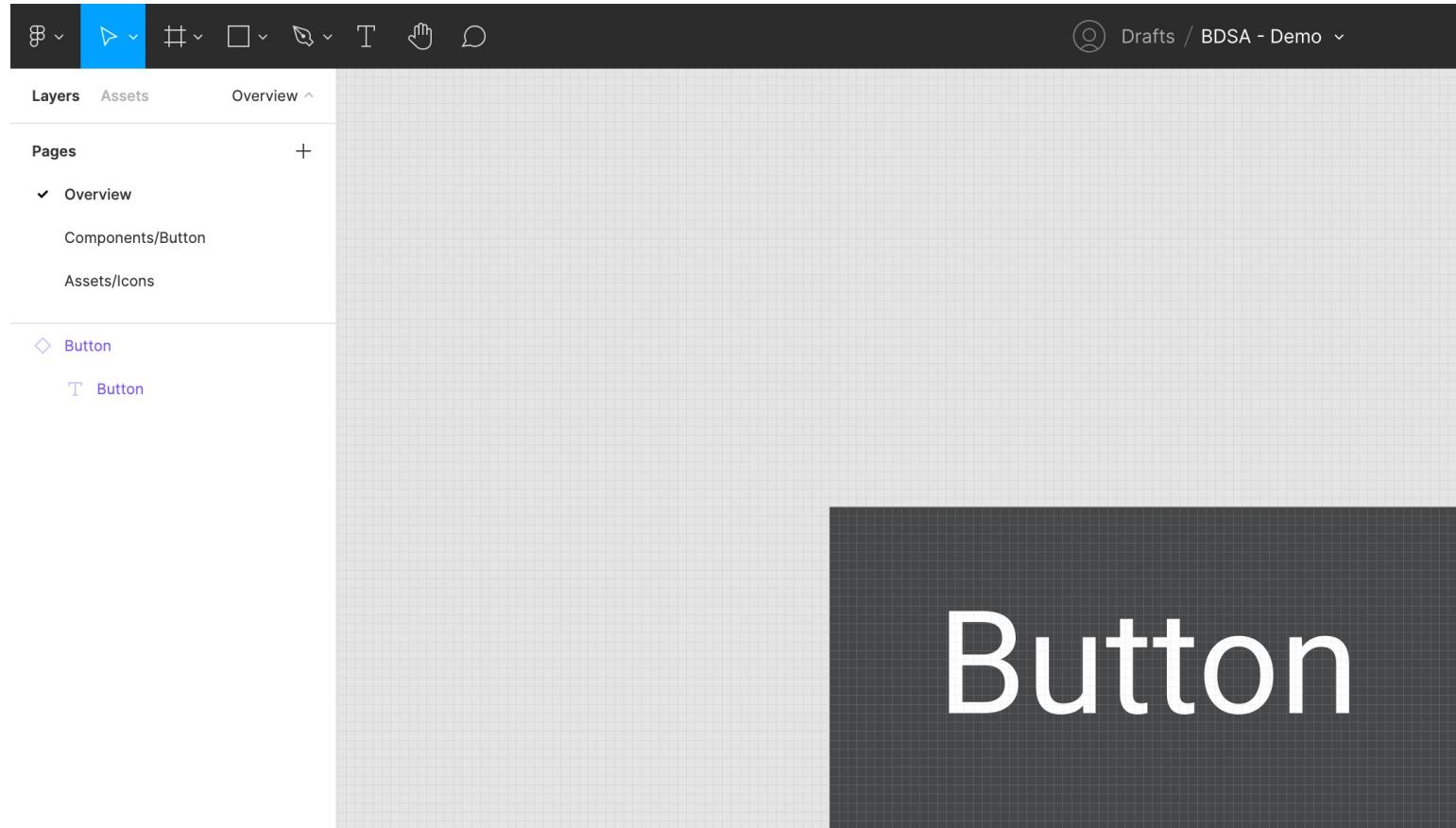
name	description	default	control
label	Label for the component	-	<input type="text" value="Primary button"/>
color	Color for the component	-	<input type="text" value="primary"/>
size	Specify the size of the component, from a list of available sizes	<input type="radio"/> default <input type="radio"/> small	<input checked="" type="radio"/> default <input type="radio"/> small
disabled	Specify whether the component should be disabled	<input type="text" value="false"/>	<input type="radio"/> False <input checked="" type="radio"/> True

COMPONENT JOURNEY

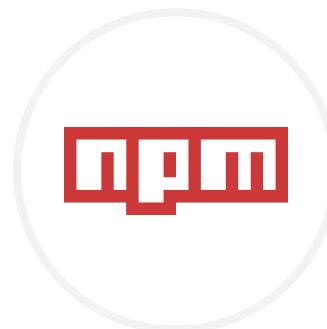
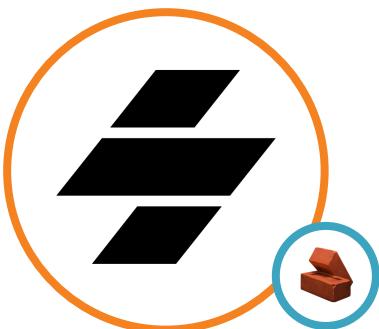


DESIGN KIT

<https://www.figma.com/file/MKc4h0mD17vdtKYKJuaYWf/BDSA-Demo?node-id=0%3A1>



COMPONENT JOURNEY



WEB COMPONENTS

- Reusable custom elements
- Runs natively in browser without additional framework
- Encapsulated functionality

STENCIL



- Toolchain for building web components
- Created by Ionic
- Small API, easy to get started
- Local dev-server with hot module reload

STENCIL

Decorators



- **@Component()** declares a new web component
- **@Prop()** declares an exposed property/attribute
- **@State()** declares an internal state of the component
- **@Watch()** declares a hook that runs when a property or state changes
- **@Element()** declares a reference to the host element
- **@Method()** declares an exposed public method
- **@Event()** declares a DOM event the component might emit
- **@Listen()** listens for DOM events

STENCIL

```
● ● ●  
1  @Component({  
2    tag: 'bold-badge',  
3    styleUrl: 'badge.css',  
4    shadow: true,  
5  })  
6  export class BadgeComponent {  
7  
8    @Prop() label: string = '';  
9    @Prop({ mutable: true }) size: 'default' | 'large';  
10  
11   @Watch('size')  
12   validateSize() {  
13     if (this.size !== 'default' && this.size !== 'large') {  
14       this.size = 'default';  
15     }  
16   }  
17  
18   componentWillLoad() {  
19     this.validateSize();  
20   }  
21  
22   render() {  
23     return (  
24       <div class={`${this.size === 'large' ? 'h-40' : 'h-32'} px-16 rounded-full`}>  
25         {this.label}  
26       </div>  
27     );  
28   }  
29 }  
30 }
```



STENCIL

@Component()



- Required decorator to create component
- Tag is used as HTML element
- Enable shadow DOM



```
1  @Component({
2    tag: 'bold-badge',
3    styleUrls: 'badge.css',
4    shadow: true,
5  })
6  export class BadgeComponent {
```

STENCIL

@Prop()



- Input for element
- Properties and attributes
- Immutable by default



```
1 @Prop() label: string = '';
2 @Prop({ mutable: true }) size: 'default' | 'large';
```

STENCIL

@Watch()



- Watches Prop changes

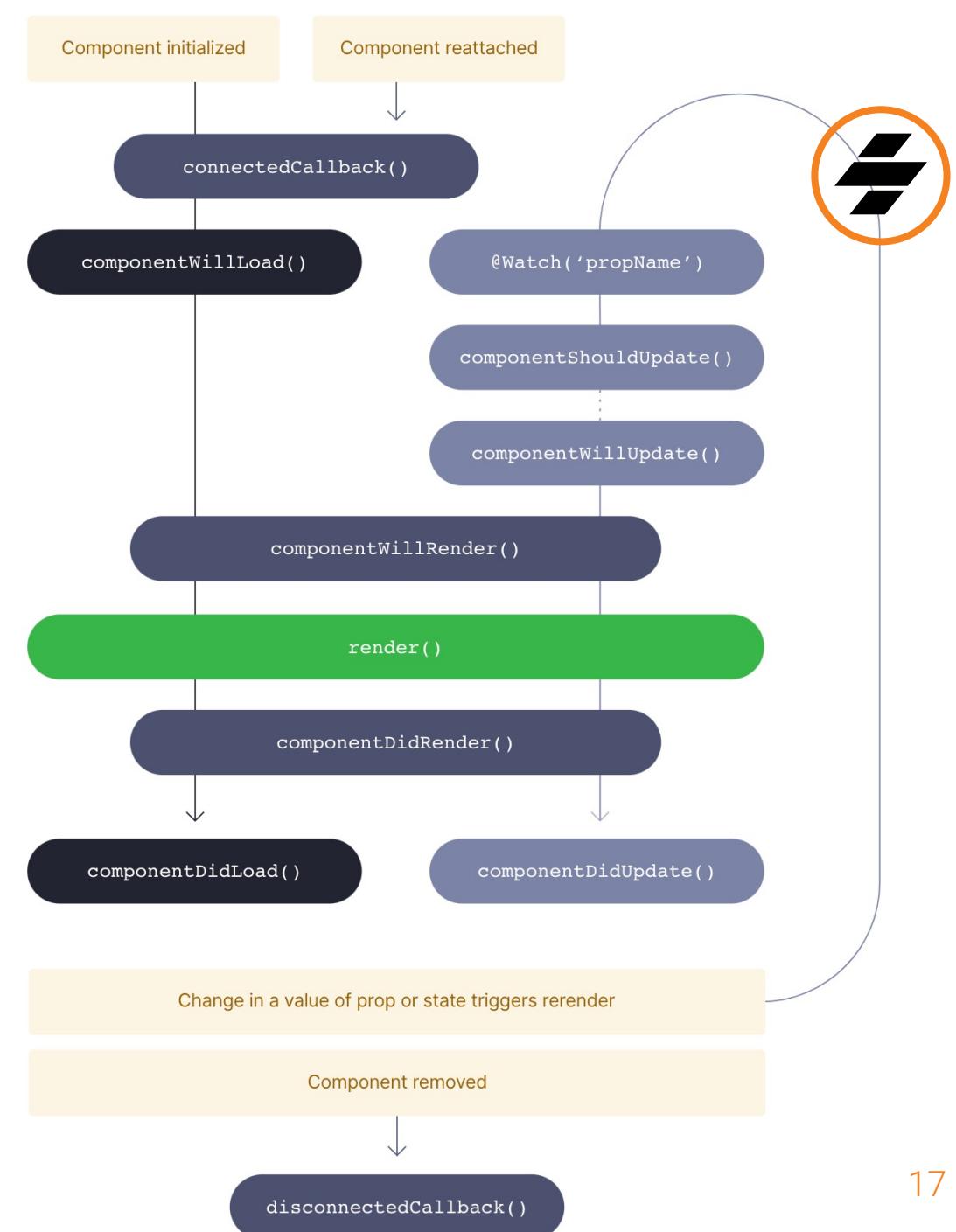


```
1  @Watch('size')
2  validateSize() {
3    if (this.size !== 'default' && this.size !== 'large') {
4      this.size = 'default';
5    }
6  }
```

STENCIL

Component lifecycle

- Lifecycle methods of component
 - Act upon component will load, has rendered, disconnects
 - Render method returns template of component



STENCIL

Component lifecycle



- Render method returns template of component

```
● ● ●  
1  render() {  
2    return (  
3      <div class={`${this.size === 'large' ? 'h-40' : 'h-32'} px-16 rounded-full`}>  
4        {this.label}  
5      </div>  
6    );  
7  }
```

COMPONENT LIBRARY

[Insert link to repository]

The screenshot shows the Azure DevOps interface for a repository named 'design-system' under the 'base-app' project. The left sidebar is the navigation menu for the repository, with 'Files' selected. The main area displays the contents of the 'main' branch. A table lists the files and their details:

Name	Last change	Commits
.storybook	12h ago	0df56142 feat(images): expand icons to 100% Dimitri De Kerf
scripts	20 Sept	7103435a chore: configure update scripts Dimitri De Kerf
src	4h ago	54f59341 Align component documentation danielleterras
.editorconfig	10 Jul	3ae120dc refactor Vierbergen Tim
.gitignore	13 Jul	a7734f1a fix(badge): fix typo Dimitri De Kerf
.prettierrc.json	10 Jul	3ae120dc refactor Vierbergen Tim
azure-pipelines.yml	22 Sept	17e14714 chore(pipeline): test stencil components Dimitri De Kerf
LICENSE	10 Jul	3ae120dc refactor Vierbergen Tim
package-lock.json	4h ago	54f59341 Align component documentation danielleterras
package.json	20 Sept	37d2bfe5 chore: update version to 0.0.18 Dimitri De Kerf
README.md	10 Jul	3ae120dc refactor Vierbergen Tim
stencil.config.ts	Yesterday	838ae321 feat(images): use images from assets Dimitri De Kerf
tailwind.config.js	15 Sept	803a4901 chore(tailwind): update gray color swatch Dimitri De Kerf
tsconfig.json		

COMPONENT JOURNEY



STORYBOOK

- UI development, build components in isolation
- Generates documentation for components
- Design system documentation
- Markdown for further customisation



STORYBOOK

<https://boldbook.z6.web.core.windows.net/>

The screenshot shows the Storybook interface with the 'Docs' tab selected. On the left, there's a sidebar with navigation links for various sections like BOLD, DESIGNING, DEVELOPING, GOVERNANCE, BRAND, FOUNDATIONS, and CONTENT. The main content area is titled 'Button' and contains a description: 'Buttons allow users to perform an action or to navigate to another page. They have multiple variants for va... ideal for calling attention to where a user needs to do something in order to move forward in a flow.' Below the description are four button variants: 'Primary button' (orange), 'Secondary button' (orange), 'Tertiary button' (light blue), and 'Ghost button' (light gray). At the bottom, there's a 'Properties' section with a table:

name	description	default	control
label	Specify the label of the component	-	Primary
color	Specify the color of the component	-	primary
size	Specify the size of the component, from a list of available sizes	default	<input checked="" type="radio"/> default <input type="radio"/> small

COMPONENT JOURNEY

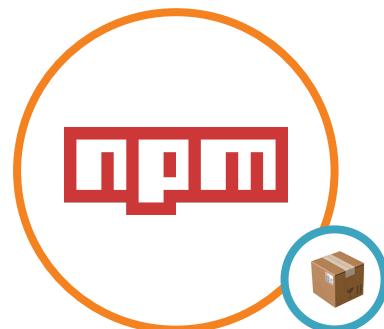


AZURE PIPELINES

- Building components and documentation
- CI/CD pipeline
- Deploying



COMPONENT JOURNEY



AZURE ARTIFACTS



- Store and share artifacts
- Components are provided as npm package



@bold/ds-webcomponents

Version 0.0.16



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