

Thomas Reggi (they/them)



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Framework Interoperable Component Libraries

Using Lit (Web Components)



Why Now?

Essential apps >

Apps

Games

Movies & TV



TikTok

4.2 ★ Entertainment

Free



Adobe Photoshop

3.8 ★ Photo & video

Paid



LinkedIn

4.2 ★ Social



Adobe Acrobat Reader DC

3.3 ★ Productivity

Elements Console Recorder Performance insights Sources Network Performance

```

<!-->
  <sl-animation name="fadeIn" easing="ease-out" fill="both" iterations="1"
    duration="1000" delay="0">
    >#shadow-root (open)
    <!--?lit$393265871$-->
    ><div class="grid-item">
      ><trending-card class="product-card trending-card" part="product-card" role="listitem"
        direction="ltr" highlighted>
      >#shadow-root (open)
      <!-->
      ><div telemetry-event-id="ProductCardClicked" class="product-grid-item-con
  
```

Styles Computed

```

File :hov .cls
element.style {
}
.trending-card, .small-trending-card {
  width: 100%;
}
.product-
  
```

inner.trending.wrap.direction-row.no-scroll.grid-container sl-animation div.grid-item. trending-card.product-card.trending-card

Try it!

Demo Generative fill now

Try Photoshop on the web with hands-on tutorials

Hands-on tutorial

Get started in Photoshop
on the web

Start tutorial >



Demo tutorial

Text prompt to astounding art



Hands-on tutorial

Bring out colors



Hands-on tutorial

Selective color adjustments



<!--?lit\$327971904\$-->

<!-->

```
<psw-banner-card style="--banner-card-width: calc(var(--spectrum-global-dimension-size-6000) - var(--spectrum-global-dimension-size-125));"> == $0
```

▼ #shadow-root (open)

<!-->

▼ <div class="banner-card" tabindex="0"> flex

▶ <div class="card-body"> ... </div> flex

▼ <div class="card-asset">

<!--?lit\$327971904\$-->

▶ <video loop muted /video>

Styles Computed >>

Fill :hov .cls + ↗ ↘

```
element.style {  
  --banner-card-width:  
    calc(var(--spectrum-global-dimension-size-6000) - var(--spectrum-global-dimension-size-125));  
}
```

How did we get here?

Button dropdown menus Built on button groups to provide contextual menus

Button dropdowns

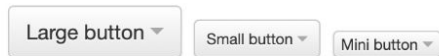
Overview and examples

Use any button to trigger a dropdown menu by placing it within a `.btn-group` and providing the proper menu markup.



Works with all button sizes

Button dropdowns work at any size. your button sizes to `.btn-large`, `.btn-small`, or `.btn-mini`.



Split button dropdowns

Overview and examples

Building on the button group styles and markup, we can easily create a split button. Split buttons feature a standard action on the left and a dropdown toggle on the right with contextual links.

Example markup

Similar to a button group, our markup uses regular button markup, but with a handful of additions to refine the style and support Bootstrap's dropdown jQuery plugin.

```
1. <div class="btn-group">
2.   <a class="btn dropdown-toggle" data-toggle="dropdown" href="#">
3.     Action
4.     <span class="caret"></span>
5.   </a>
6.   <ul class="dropdown-menu">
7.     <!-- dropdown menu links -->
8.   </ul>
9. </div>
```

Requires javascript

Button dropdowns require the [Bootstrap dropdown plugin](#) to function.

In some cases—like mobile—dropdown menus will extend outside the viewport. You need to resolve the alignment manually or with custom javascript.

Example markup

We expand on the normal button dropdowns to provide a second button action that operates as a separate dropdown trigger.

```
1. <div class="btn-group">
2.   <button class="btn">Action</button>
3.   <button class="btn dropdown-toggle" data-toggle="dropdown">
```

React Bootstrap

The most popular front-end framework, rebuilt for React.

Get started

Components

Current version: 2.9.0

Rebuilt with React

React-Bootstrap replaces the Bootstrap JavaScript. Each component has been built from scratch as a true React component, without unneeded dependencies like jQuery.

As one of the oldest React libraries, React-Bootstrap has evolved and grown alongside React, making it an excellent choice as your UI foundation.

Bootstrap at its core

Built with compatibility in mind, we embrace our bootstrap core and strive to be compatible with the world's largest UI ecosystem.

By relying entirely on the Bootstrap stylesheet, React-Bootstrap just works with the thousands of Bootstrap themes you already love.

Accessible by default

The React component model gives us more control over form and function of each component.

Each component is implemented with accessibility in mind. The result is a set of accessible-by-default components, over what is possible from plain Bootstrap.



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ENGLISH ▾



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React components for faster and easier web development.
Build your own design system, or start with Material Design.

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Installation



Usage

🚀 Introducing Style, a new CLI and more. →

Build your component library.

Beautifully designed components that you can copy and paste into your apps. Accessible. Customizable. Open Source.

Get Started

GitHub

Start building your app now


Click to go back, hold to see history


An open source component library optimized for fast development, easy maintenance, and accessibility. Just import and go—no configuration required.

Your team


Invite and manage your team members.

Email address

 Emmeline Labrie emmeline.labrie@example.com ...

 Zac Wight zac.wight@example.com ...

 Poppy Nicholls poppy.nicholls@example.com ...

 Da-Xia Wu da-xia.wu@example.com ...

Sign up

Email address

Password

Rapidly build modern websites without ever leaving your HTML.

A utility-first CSS framework packed with classes like `flex`, `pt-4`, `text-center` and `rotate-90` that can be composed to build any design, directly in your markup.

[Get started](#)

⌘ K



```
1 <figure class="bg-slate-100 rounded-xl dark:bg-slate-800">
2   
4     <blockquote>
5       <p class="text-lg">
6         "Tailwind CSS is the only framework that I've seen so
```

What about other frameworks?



FRESH



SOLIDJS



qwik



PREACT

SVELTE



Vue.js

Framework interoperable?
Component libraries?

react-jsonschema-form

Blank **Simple** UI Options Nested Arrays Live validation

Numbers Widgets O

Errors Examples Lar

Files Single Custom

Alternatives Property dep Disable validation

Schema dependencies Additional Properties Any Of Disable HTML 5 validation

Any Of with Custom Field One Of All Of If Then Else Focus on 1st Error

Null fields Enumerated objects Nullable ErrorSchema

Defaults Custom Field

I love this project but I cant use it in Svelte...

Show Error List

top

Populate minitems in arrays

Populate remaining minite

Merge array defaults with formData

Object fields default behavior

Assign value to formData \

Theme

default

Subtheme

Select subtheme

Validator

AJVB

Programmatic

Submit Validate Reset

Share

Raw Ajv Validation

Raw Validate

Validation not run

JSONSchema

```
1 {
2   "title": "A registration form",
3   "description": "A simple form example.",
4   "type": "object",
5   "required": [
6     "firstName",
7     "lastName"
8   ],
9   "properties": {
10    "firstName": {
11      "type": "string",
12      "title": "First name",
13      "default": "Chuck"
14    },
```

https://rjsf-team.github.io/react-jsonschema-form/#

A registration form

A simple form example.

First name*

Make text **bold** or *italic*. Take a look at other options [here](#).

Chuck

Last name*

Make things **bold** or *italic*. Embed snippets of `code`. And this is a small texts.

Norris

Age of person

(earth year)



2.10.0

[Code](#)

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Getting Started

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Frameworks

[React](#)

[Vue](#)

[Angular](#)

Resources

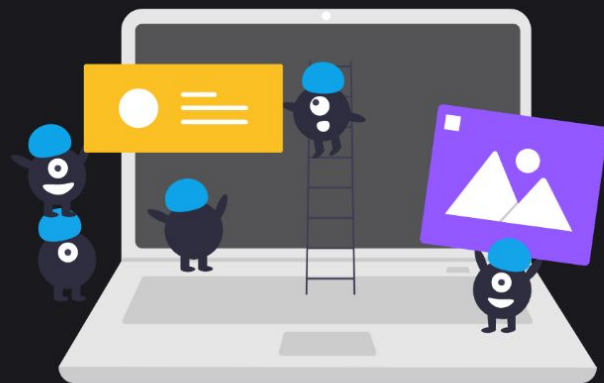
[Community](#)

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A forward-thinking library of web components.

- Works with all frameworks 🧩
- Works with CDNs 🌐
- Fully customizable with CSS 🎨
- Includes a dark theme 🌙
- Built with accessibility in mind ♿
- First-class [React support](#) 🧩
- Built-in localization 🗨️
- Open source 🐱
- [More awesome than ever](#) 🤩



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Quick Start

Add the following code to your page.

- Animation
- Avatar
- Badge
- Breadcrumb
- Breadcrumb Item
- Button
- Button Group
- Card
- Carousel
- Carousel Item
- Checkbox
- Color Picker
- Copy Button

```
<sl-alert open>
  <sl-icon slot="icon" name="info-circle"></sl-icon>
  This is a standard alert. You can customize its content and even the icon.
</sl-alert>
```

SOURCE ^

HTML

REACT

CODEPEN



Alerts will not be visible if the `open` attribute is not present.

Examples



This is a standard alert. You can customize its content and even the icon.



```
import SAlert from '@shoelace-style/shoelace/dist/react/alert';
import SIcon from '@shoelace-style/shoelace/dist/react/icon';

const App = () => (
  <SAlert open>
    <SIcon slot="icon" name="info-circle" />
    This is a standard alert. You can customize its content and even the icon.
  </SAlert>
);
```

SOURCE ^

HTML

REACT

CODEPEN

Slots

Properties

Events

Methods

Parts

Animations

Dependencies

Components

Alert

- Animated Image
- Animation
- Avatar
- Badge
- Breadcrumb
- Breadcrumb Item
- Button
- Button Group
- Card
- Carousel
- Carousel Item

Creating Toasts Imperatively

The Toast Stack

Importing

Slots

Properties

Events

Methods

Parts

Animations

Dependencies



8c9f8e6



shoelace / scripts / make-react.js

↑ Top

Code

Blame

79 lines (64 loc) · 2.54 KB

Raw



```
53     Component.define(`${component.tagName}`)
54
55     ${jsDoc}
56     const reactWrapper = createComponent({
57       tagName,
58       elementClass: Component,
59       react: React,
60       events: {
61         ${events}
62       },
63       displayName: `${component.name}`
64     })
65
66     export default reactWrapper
67   },
68   Object.assign(prettierConfig, {
69     parser: 'babel-ts'
70   })
```

All Features

Object type

Nests each property to a field in a fieldset.

Some text input

The help text is from "description".

Some other -required- text input

Primitive field types

Strings

Simple inline string

String with constraints

Only UPPERCASE with 2 to 10 characters is allowed.

MyCustomWidgetRte

```

41     },
42     "Radios": {
43       "Number": 1000
44     },
45     "ButtonsGroup": {
46       "String": "Averell
47     }
48   },
49 },
50 "CustomWidgets": {
51   "MyCustomWidgetRte": "
52 }
53 }

```

MyCustomWidgetRte

```

67     "ui:placeholder": "x
68   },
69   "MyCustomWidgetRte": {
70     "ui:widget": "myCust
71   }
72 }
73 }

```

MyCustomWidgetRte

```

300 myCustomWidget
387 "title": "UU
388 "description"
389 "type": "str
390 },
391 "MyCustomWidget
392 "title": "Ri
393 "type": "str
394 }
395 }
396 }
397 }
398 }

```

Settings

Component libraries

- Shoelace
- Material
- Carbon
- Wired
- System

Stargazers

All 13 | You know 0



danmindru

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aaronmng

📍 Sydney, Australia

Follow



nicadeddu

📍 Cagliari

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tomoharu-fujita

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LorenzKahl

📍 Hamburg, Germany

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scagood

📍 Hartley Wintney, UK

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esneko

📍 Latvia

Follow



esnisch

📅 Joined on Aug 16, 2011

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popeindustries

📍 Oslo

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jaredcwhite

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lospoy

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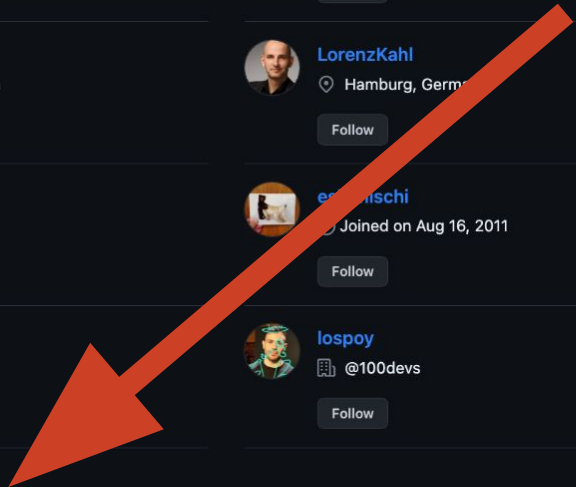
📧 Agent Software Ltd

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reggi

📍 Queens, NY




Astro 3.3 is here! [Learn more >](#)

The web framework that scales with you

Astro builds fast content sites, powerful web applications, dynamic server APIs, and everything in-between.

[Get Started](#)

```
> npm create astro@latest 
```



PreactJs.preact.tsx

ReactJs18.react.tsx

SolidJs.solid.tsx

SvelteJs.svelte

TypeScriptOnly.ts

VueJs.vue

pages

flavored.astro

index.astro

pure-html.html

themes


Layout.astro

env.d.ts

.editorconfig



```
61         </a>{' '}
62         and see the source code.
63         <iframe src="pure-html.html" />
64     </div>
65     );
66     case 'Astro':
67         return <AstroJs />;
68     case 'Solid':
69         return <SolidJs client:only="solid-js" />;
70     case 'Lit':
71         return <LitJs client:only="lit" />;
72     case 'Vue':
73         return <VueJs client:only="vue" />;
74     case 'React18':
75         return <React18Js client:only="react" />;
76     case 'Svelte':
77         return <SvelteJs client:only="svelte" />;
78     case 'Preact':
79         return <PreactJs client:only="preact" />;
80     default:
81         return 'No framework found';
82     }
83 }}
84 </section>
85 ))
86 }
87 </main>
```

- › INTRODUCTION
- › COMPONENTS
- › TEMPLATES
- › COMPOSITION
- › MANAGING DATA
- › TOOLS AND WORKFLOWS
- ▼ SERVER RENDERING 
 - ◆ **Overview**
 - Server usage
 - Client usage
 - Authoring components
 - DOM emulation
- › FRAMEWORKS
- › LOCALIZATION
- › API
- › RELEASES
- › RELATED LIBRARIES

Server-side rendering (SSR)



This package is part of the Lit Labs family of experimental packages. See the [Lit Labs](#) page for guidance on using Labs software in production.

Server-side rendering (SSR) is a technique for generating and serving the HTML of your components, including shadow DOM and styles, before their JavaScript implementations have loaded and executed.

You can use SSR for a variety of reasons:

- Performance. Some sites can render faster if they render static HTML first without waiting for JavaScript to load, then (optionally) load the page's JavaScript and hydrate the components.
- SEO and web crawlers. While the major search-engine web crawlers render pages with full JavaScript-enabled browsers, not all web crawlers support JavaScript.
- Robustness. Static HTML renders even if the JavaScript fails to load or the user has JavaScript disabled.

For a deeper dive into server-side rendering concepts and techniques generally, see [Rendering on the Web](#) on web.dev.

Contents: Server-side rendering (SSR)

Library status

<https://dev.to/reggi/framework-interoperable-component-libraries-using-lit-web-components-43ac>