

CSS

TAILWIND CSS

GETTING STARTED

What & why



IN A ROCKET

Learn front-end development at rocket speed.

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Refactoring UI

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- Border radius
- Border width
- Opacity

...and anything else you run into where it feels like you're laboring over a low-level design decision.

You don't have to define all of this stuff ahead of time, just make sure you're approaching design with a system-focused mindset. Look for opportunities to introduce new systems as you make new decisions, and try to avoid having to make the same minor decision twice.

Designing with systems is going to be a recurring theme throughout this book, and in later chapters we'll talk about building a lot of these systems in finer detail.

Hierarchy is Everything

REFACTORING UI

Contents

Introduction	1
Getting started	2
Project structure	3
Configuration	4
Building the application	5
Deployment	6
Conclusion	7

tailwindcss

v4.1

Q

⌘K

Docs

Blog

Showcase

Plus

Documentation

Components

Templates

UI Kit

Playground

Course NEW

GETTING STARTED

Installation

Editor setup

Compat

Upgrade

CORE CONCEPTS

Styling with utility classes

Hover, focus, and other states

Responsive design

Dark mode

Theme variables

Colors

Adding custom styles

Detecting classes in source files

Functions and directives

BASE STYLES

Preflight

LAYOUT

aspect-ratio

https://tailwindcss.com/build-uis-that-dont-suck

INSTALLATION

Get started with Tailwind CSS

Tailwind CSS works by scanning all of your HTML files, JavaScript components, and any other templates for class names, generating the corresponding styles and then writing them to a static CSS file.

It's fast, flexible, and reliable — with zero-runtime.

Installation

Using Vite

Using PostCSS

Tailwind CLI

Framework Guides

Play CDN

Installing Tailwind CSS as a Vite plugin is the most seamless way to integrate it with frameworks like Laravel, SvelteKit, React Router, Nuxt, and SolidJS.

01

Install Tailwind CSS

Install `'tailwindcss'` and `'@tailwindcss/vite'` via npm.

02

Configure the Vite plugin

Add the `'@tailwindcss/vite'` plugin to your Vite configuration.

03

Import Tailwind CSS

Add an `'@import'` to your CSS file that imports Tailwind CSS.

Terminal

```
npm install tailwindcss @tailwindcss/vite
```

vite.config.ts

```
import { defineConfig } from 'vite'
import tailwindcss from '@tailwindcss/vite'

export default defineConfig({
  plugins: [
    tailwindcss(),
  ],
})
```

CSS

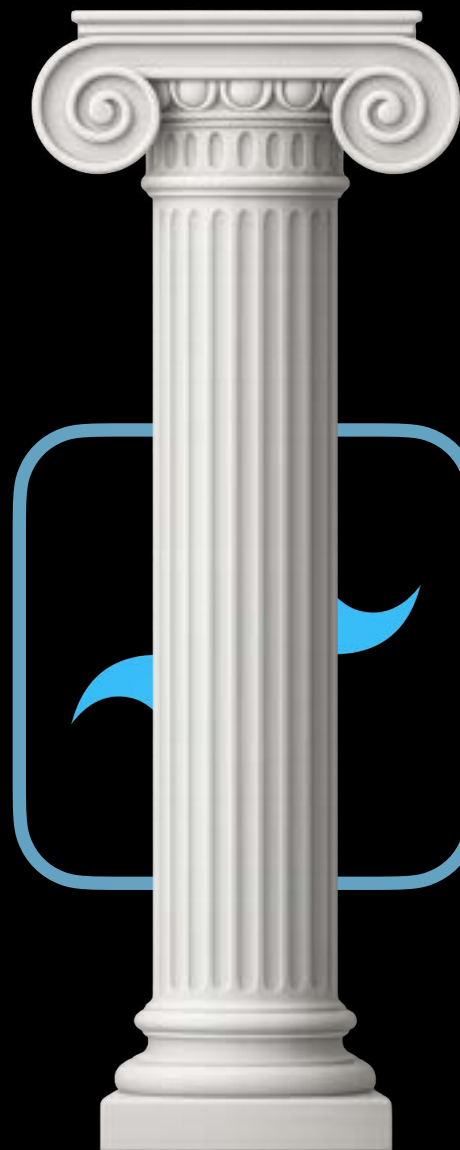
```
@import "tailwindcss";
```

TAILWIND CSS 4: Rapidly design websites with premium quality

inarocket.com

UTILITY-FIRST

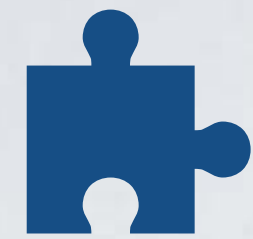
Specific classes to control styles



UTILITY-FIRST

Small, specific and reusable classes

CSS FRAMEWORKS



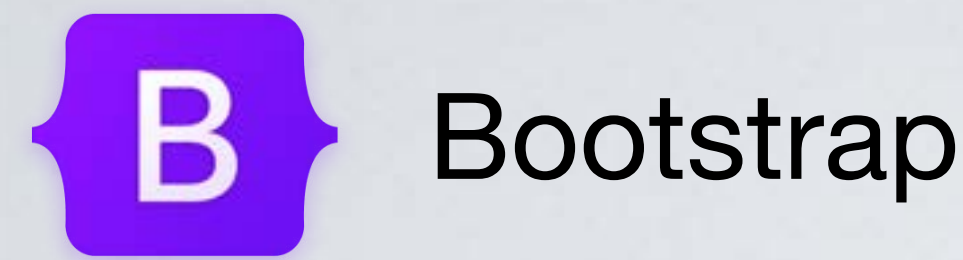
Based around
COMPONENTS



Based around
UTILITIES



BASED AROUND COMPONENTS



Primary Secondary Success Danger Warning Info Light Dark [Link](#)

Accordion Item #1 ^

This is the first item's accordion body. It is shown by default, until the collapse plugin adds the appropriate classes that we use to style each element. These classes control the overall appearance, as well as the showing and hiding via CSS transitions. You can modify any of this with custom CSS or overriding our default variables. It's also worth noting that just about any HTML can go within the `.accordion-body`, though the transition does limit overflow.

Accordion Item #2 v

Accordion Item #3 v

An active item

A second item

A third item

A fourth item

And a fifth one

Previous 1 2 3 Next

Image cap

Card title

Some quick example text to build on the card title and make up the bulk of the card's content.

Go somewhere

Navbar Home Link Dropdown Disabled Search Search

A simple primary alert—check it out!

Active Link Link Disabled



Bootstrap

Accordion

Alerts

Badge

Breadcrumb

Buttons

Button group

Card

Carousel

Close button

Collapse

Dropdowns

List group

Modal

Navbar

Navs & tabs

Offcanvas

Pagination

Placeholders

Popovers

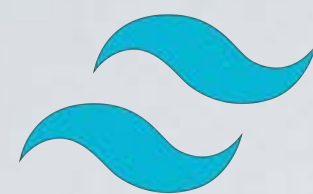
Progress

Scrollspy

Spinners

Toasts

Tooltips



Tailwind CSS

SPECIFIC CLASSES TO CONTROL

Layout

Flex & Grid

Spacing

Sizing

Typography

Backgrounds

Borders

Effects

Filters

Tables

Transitions
& Animation

Transforms

Interactivity

SVG

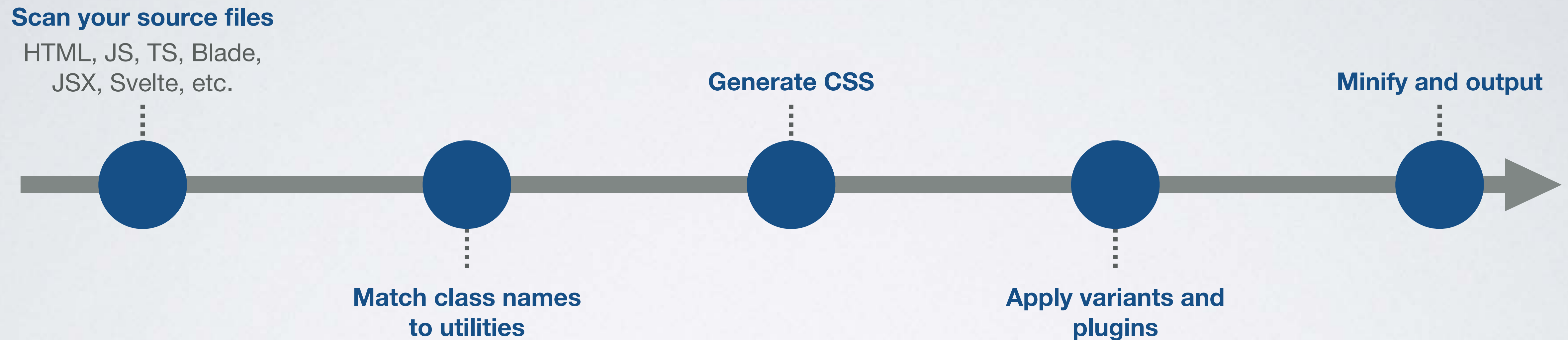
Accessibility

OXIDE ENGINE: JUST-IN-TIME COMPILER

OXIDE ENGINE



HOW TAILWIND CSS COMPILES YOUR CODE





An extremely fast CSS parser, transformer, bundler, and minifier.

[Playground](#) · [Docs](#) · [Rust docs](#) · [npm](#) · [GitHub](#)

Light speed

Lightning CSS is over 100x faster than comparable JavaScript-based tools. It can minify over 2.7 million lines of code per second on a single thread.

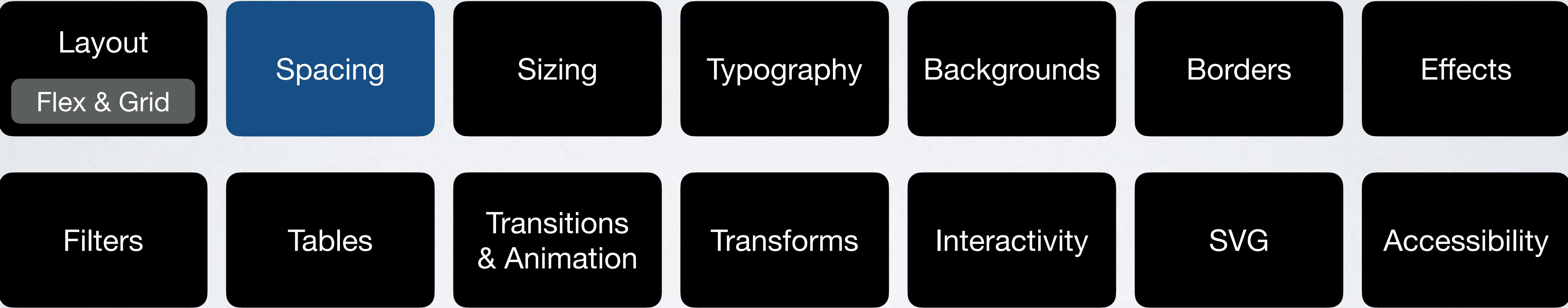
Lightning CSS is written in Rust, a native systems programming language. It was built with performance in mind from the start, designed to make efficient use of memory, and limit AST passes.

[Get started](#) →





SPECIFIC CLASSES TO CONTROL



BASED AROUND UTILITIES

 **tailwindcss**

m-0

mt-0

mx-0

my-0



 **CSS**

margin: 0;

margin-top: 0;

margin-left: 0;
margin-right: 0;

margin-top: 0;
margin-bottom: 0;



SPECIFIC CLASSES TO CONTROL

Layout

Flex & Grid

Spacing

Sizing

Typography

Backgrounds

Borders

Effects

Filters

Tables

Transitions & Animation

Transforms

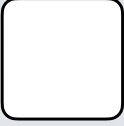
Interactivity

SVG

Accessibility

BASED AROUND UTILITIES

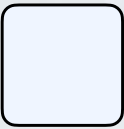


 **bg-white**

background-color: rgb(255 255 255);

 **bg-black**

background-color: rgb(0 0 0);

 **bg-blue-50**

background-color: rgb(239 246 255);

 **bg-blue-900**

background-color: rgb(30 58 138);

CREATE A COMPONENT

`border-radius: 0.25rem;`

 `rounded`

`padding: 1rem;`

 `p-4`

`background-color: rgb(240 253 244);`

 `bg-green-50`

File successfully uploaded

 `text-sm`

`font-size: 0.875rem;`
`line-height: 1.25rem;`

 `font-medium`

`font-weight: 500;`

 `text-green-800`

`color: rgb(22 101 52);`

Carl Sagan

From Wikipedia, the free encyclopedia

American astronomer, planetaryscientist, cosmologist, astrophysicist, astrobiologist, author, poet,[2] and science communicator.

His best known scientific contribution is research on extraterrestrial life, including experimental demonstration of the production of amino acids from basic chemicals by radiation.

Contents

- 1. Early life and education
- 2. High-school years
- 3. University education

Fields	Awards
Astronomy	Understanding of Science (1993)
Astrophysics	National Academy of Sciences (1994)
Cosmology	Oersted Medal (1990)

```
.hd-primary {...}
.hd-primary-right {...}
.hd-primary-wrong {...}
.hd-secondary {...}
.hd-secondary-right {...}
.hd-secondary-wrong {...}

.p-big {...}
.p-big-right {...}
.p-big-wrong {...}

.p-medium {...}
.p-medium-right {...}
.p-medium-wrong {...}

.p-small {...}
.p-small-right {...}
.p-small-wrong {...}
...
```

Carl Sagan

big important success

From Wikipedia, the free encyclopedia

small

American astronomer, planetaryscientist, cosmologist, astrophysicist, astrobiologist, author, poet,[2] and science communicator.

medium success

His best known scientific contribution is research on extraterrestrial life, including experimental demonstration of the production of amino acids from basic chemicals by radiation.

small danger

Contents

medium important danger

- 1. Early life and education
- 2. High-school years
- 3. University education

small success

Fields

medium important success

Astronomy

Astrophysics

small success

Cosmology

Awards

medium important danger

Understanding of Science (1993)

National Academy of Sciences (1994)

small danger

Oersted Medal (1990)

```
.big {...}
.medium {...}
.small {...}
.important {...}
.success {...}
.danger {...}
```

USING UTILITY CLASSES vs TRADITIONAL WAY

TRADITIONAL

HTML

```
<div class="card">
  <h2 class="card__title">Title</h2>
  <p class="card__text">Description</p>
</div>
```

CSS

```
.card {
  padding: 1.5rem;
  background-color: #f9f9f9;
  border-radius: .5rem;
}

.card__title {
  font-size: 1.25rem;
  font-weight: bold;
}

.card__text {
  color: #444;
}
```

UTILITY CLASSES

HTML

```
<div class="p-6 bg-gray-100 rounded-lg">
  <h2 class="text-xl font-bold">Title</h2>
  <p class="text-gray-700">Description</p>
</div>
```

CSS



p-6



bg-gray-100



rounded-lg



text-xl



font-bold



text-gray-700

Only the used utility-classes
thanks to Tailwind's JIT compiler

USING UTILITY CLASSES: BENEFITS

BENEFITS



High-speed
development

Smaller final CSS
thanks to JIT compiler

Instant reuse
without duplicating styles

Better collaboration
between design and development

Fewer repetitive decisions
(the system already has spacing, typography, colors, etc.)

UTILITY-FIRST FUNDAMENTALS: BENEFITS

- **You get things done faster** — you don't spend any time coming up with class names, making decisions about selectors, or switching between HTML and CSS files, so your designs come together very fast.

SOURCE: [Core Concepts / Styling with utility classes by Tailwind CSS documentation.](#)

THINK DESIGN

NOT JUST CODE

USING UTILITY CLASSES: CUSTOMIZATION

CSS

```
@import "tailwindcss";
```

```
@theme {  
  --breakpoint-sm: 30rem;  
  --color-mybrand: #164f86;  
}
```

Override a default theme variable

```
/* My CSS styles */  
.logo { color: blue; }
```

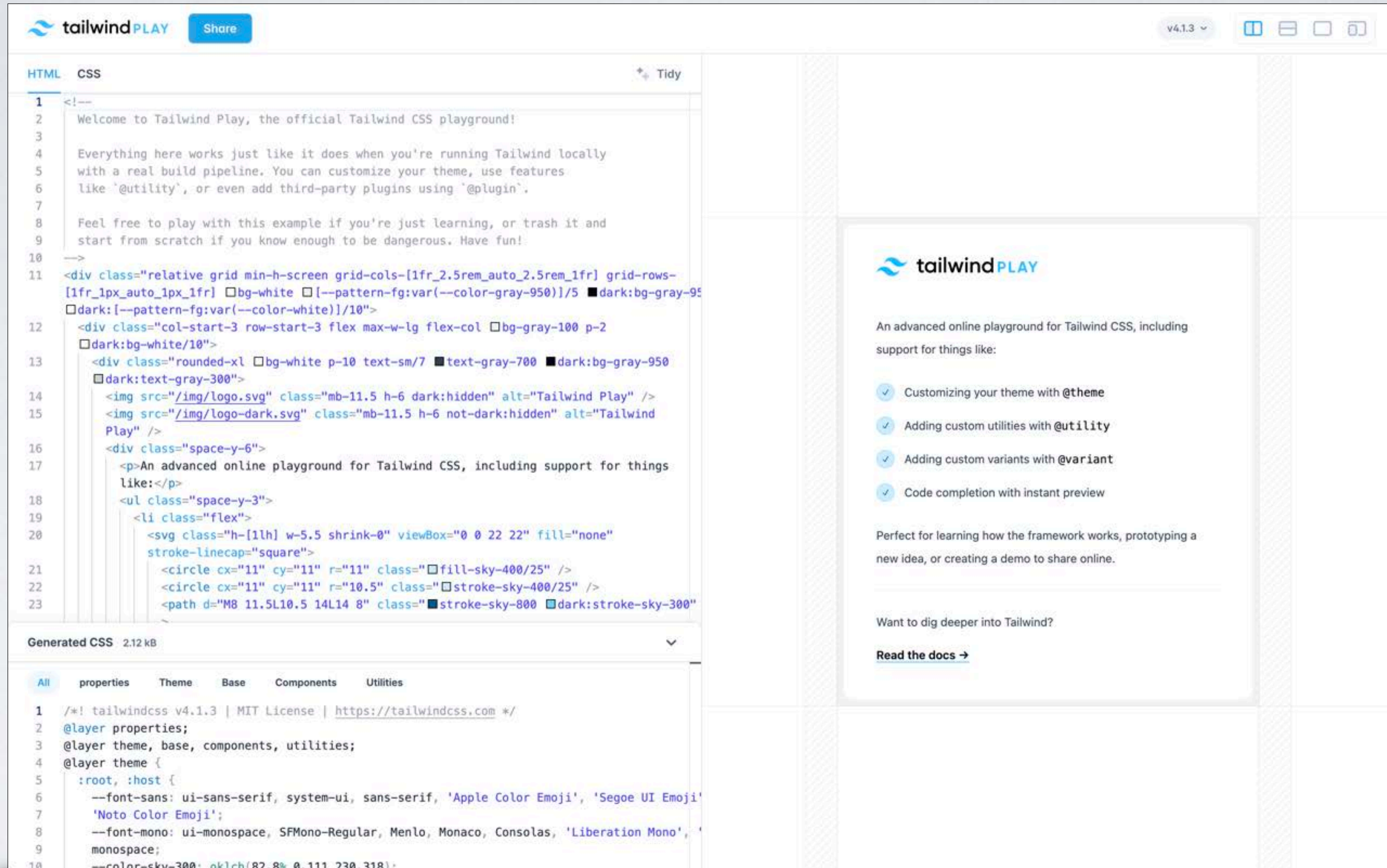
HTML

```
<div class="p-4 bg-mybrand text-mybrand  
logo">  
  ...  
</div>
```

USING UTILITY CLASSES: CUSTOMIZATION



UTILITY-FIRST FUNDAMENTALS: DEMO



UTILITY-FIRST FUNDAMENTALS: DEMO

 **tailwind**PLAY

Share

v4.1.5 ▾

HTML

CSS

Tidy

1

@import "tailwindcss";

2

3

@theme {

4

/* ... */

5

}

6

7

/* My CSS styles */

8

.logo { color: blue; }

9

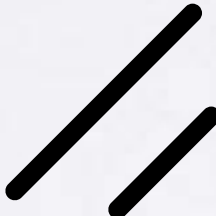
Click

Generated CSS 1.23 kB

COMPONENTS LIBRARIES FOR TAILWIND CSS

 **tailwindPLUS**

 **daisyUI**

 **shadcn/ui**

 **Flowbite**

 **Tailblocks**

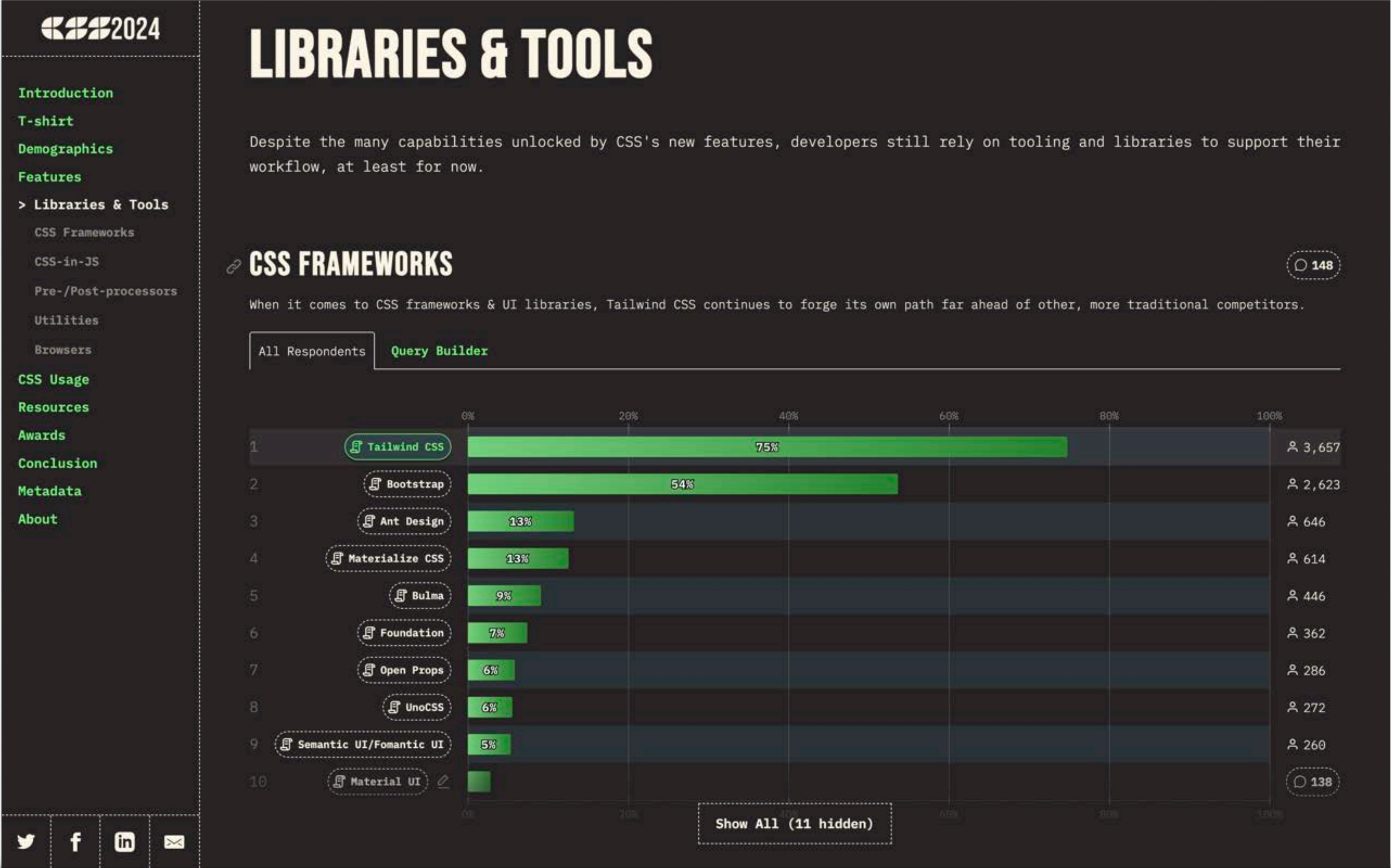
 **HeadlessUI**

 **Sailboat UI**

REAL WORLD

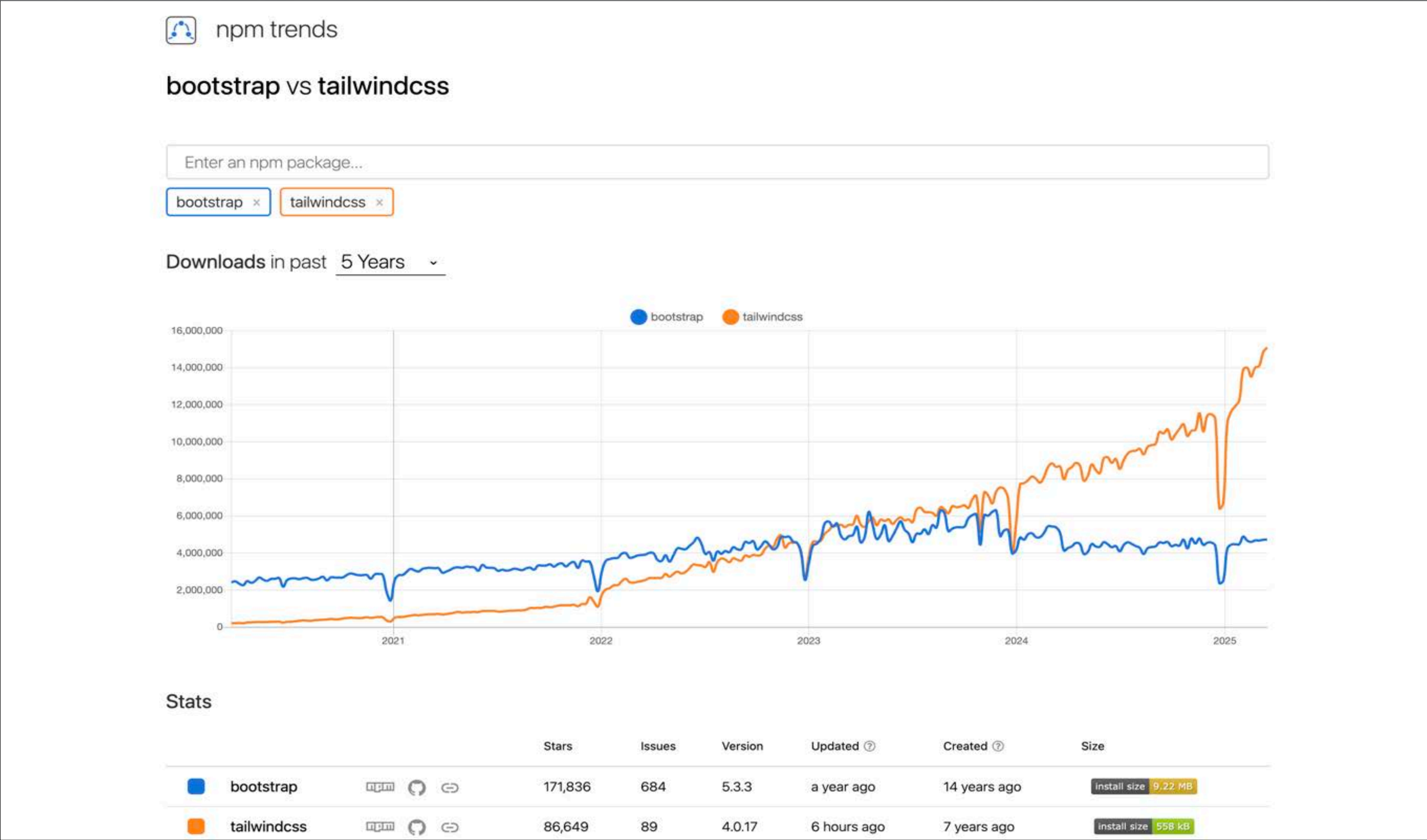
Tailwind CSS and utility classes in real projects

October 2024



NPM TRENDS: TAILWIND CSS vs BOOTSTRAP DOWNLOADS

March 2025



USING UTILITY CLASSES: GITHUB

GitHub

```
217 | <div class="HeaderMenu--logged-out p-responsive height-fit position-lg-relative d-lg-flex flex-column flex-auto pt-7 pb-4 top-0">
218 |   <div class="header-menu-wrapper d-flex flex-column flex-self-end flex-lg-row flex-justify-between flex-auto p-3 p-lg-0 rounded
      rounded-lg-0 mt-3 mt-lg-0">
219 |     <nav class="mt-0 px-3 px-lg-0 mb-3 mb-lg-0" aria-label="Global">
220 |       <ul class="d-lg-flex list-style-none">
221 |         <li class="HeaderMenu-item position-relative flex-wrap flex-justify-between flex-items-center d-block d-lg-flex
      flex-lg-nowrap flex-lg-items-center js-details-container js-header-menu-item">
222 |           <button type="button" class="HeaderMenu-link border-0 width-full width-lg-auto px-0 px-lg-2 py-3 py-lg-2 no-wrap d-flex
      flex-items-center flex-justify-between js-details-target" aria-expanded="false">Product <svg opacity="0.5" aria-hidden="true"
      height="16" viewBox="0 0 16 16" version="1.1" width="16" data-view-component="true" class="octicon octicon-chevron-down HeaderMenu-icon
      ml-1"><path fill-rule="evenodd" d="M12.78 6.22a.75.75 0 010 1.06l-4.25 4.25a.75.75 0 01-1.06 0L3.22 7.28a.75.75 0 011.06 1.06L8 9.94l3.
      72-3.72a.75.75 0 011.06 0z"></path></svg>
223 |         </button>
224 |         <div class="HeaderMenu-dropdown dropdown-menu rounded m-0 p-0 py-2 py-lg-4 position-relative position-lg-absolute left-0 left-lg-n3
      d-lg-flex dropdown-menu-wide">
225 |           <ul class="list-style-none f5 px-lg-4 border-lg-right mb-4 mb-lg-0 pr-lg-7">
226 |             <li>
227 |               <a class="HeaderMenu-dropdown-link lh-condensed d-block no-underline position-relative py-2 Link--secondary d-flex flex-items-center
      pb-lg-3" data-analytics-event="{&quot;category&quot;:&quot;Header dropdown (logged out), Product&quot;;&quot;action&quot;:&quot;click
      to go to Actions&quot;;&quot;label&quot;:&quot;ref_page:/;ref_cta:Actions;&quot;}" href="/features/actions">
228 |               <svg aria-hidden="true" height="24" viewBox="0 0 24 24" version="1.1" width="24" data-view-component="true" class="octicon
      octicon-workflow color-fg-subtle mr-3">
229 |               <path fill-rule="evenodd" d="M1 3a2 2 0 012-2h6.5a2 2 0 012 2v6.5a2 2 0 01-2 2H7v4.063C7 16.355 7.644 17 8.438 17H12.5v-2.5a2 2 0
      012-2H21a2 2 0 012 2V21a2 2 0 01-2 2h-6.5a2 2 0 01-2-2v-2.5H8.437A2.938 2.938 0 015.5 15.562V11.5H3a2 2 0 01-2-2V3zm2-.5a.5.5 0 00-.5.
      5v6.5a.5.5 0 00.5.5h6.5a.5.5 0 00.5-.5V3a.5.5 0 00-.5-.5H3zm14.5 14a.5.5 0 00-.5.5V21a.5.5 0 00.5.5H21a.5.5 0 00.5-.5v-6.5a.5.5 0 00-.
      5-.5h-6.5z"></path></svg>
230 |               <div>
231 |                 <div class="color-fg-default h4">Actions</div>
232 |                 Automate any workflow
233 |               </div>
234 |             </a></li>
235 |
236 |             <li>
237 |               <a class="HeaderMenu-dropdown-link lh-condensed d-block no-underline position-relative py-2 Link--secondary d-flex flex-items-center
```

USING UTILITY CLASSES: KICKSTARTER

KICKSTARTER

```
708 <body class="pages maison-book not-mobile not-phone not-mobile-safari not-chrome-ios not-forces-video-controls not-tablet not-ipad
not-iphone not-ios not-android not-touchable not-native-app-request not-apple-pay-capable not-android-pay-capable responsive
is-logged-out" id="editorial_pages_index">
709   <div class="NS_layouts_notifications"></div>
710
711   <div class="relative" data-start-project-path="/learn" id="global-header">
712     <div>
713       <section class="section_global-nav js-site-nav-container bg-white flex flex-wrap flex-nowrap-md border-bottom border-grey-400
justify-between w100p" data-reactroot="">
714         <div class="w100p py4 py2-md h7-md h5 flex items-center justify-center">
715           <a class="keyboard-focusable mb0 w30" href="/?ref=nav"><svg
716             class="valign-middle"
717             xmlns="http://www.w3.org/2000/svg"
718             viewBox="0 0 598 70"
719             width="100%"
720             height="100%"
721           >
722             <title>Kickstarter</title>
723             <g class="fill-ksr10-green" fill-rule="nonzero">
724               <path
725                 d="M523,15.9 L523,47.3 C523,54.8 529.046512,61 536.403101,61 C542.449612,61 547.186047,57.3 548.899225,52 L550.310078,
54.5 C552.829457,58.7 557.263566,61 561.79845,61 C569.155039,61 575,55.2 575,47.8 C575,45.3 574.395349,42.9 572.984496,
40.7 L567.744186,32.4 C571.573643,29.5 573.891473,24.9 573.891473,19.3 C573.891473,9 565.627907,1 555.046512,1 L537.
612403,1 C528.139535,1 523,6.1 523,15.9"
726             ></path>
727             <path
728               d="M519,49.5030231 C519,43.7552636 515.323467,39.4192345 510.255814,38.4108557 C512.541226,36.8982874 513.932347,34.
3773402 513.932347,31.04969 C513.932347,27.7220398 512.640592,25.2010926 510.255814,23.6885243 C515.422833,22.6801455
519,18.4449543 519,12.5963569 C519,6.14273218 513.832981,1 507.572939,1 L486.706131,1 C477.167019,1 472,6.14273218 472,
15.9240071 L472,46.074535 C472,55.9566478 477.167019,60.9985421 486.706131,60.9985421 L507.572939,60.9985421 C513.
832981,61.09938 519,55.9566478 519,49.5030231"
729             ></path>
730             <path
731               d="M455.8,47.5 L455.8,26.8 C462.5,26.5 468,20.9 468,13.9 C468,6.7 462.2,1 455.1,1 L427.9,1 C420.8,1 415,6.6 415,13.9
C415,20.9 420.5,26.4 427.2,26.8 L427.2,47.5 C427.2,54.9 433.5,61 441.3,61 C449.6,61 455.8,54.9 455.8,47.5"
732             ></path>
```

USING UTILITY CLASSES: NETFLIX

NETFLIX

```
272 <div class="mobile-plan-button-cta btn-small --alternate-cta-treatment">
273   <a data-uia="ad_plan_banner" class="btn btn-outline btn-small" href="/signup" target="_top">Learn More<svg width="24"
274     height="24" viewBox="0 0 24 24" fill="none" xmlns="http://www.w3.org/2000/svg" class="button-icon icon-chevron-next">
275       <path fill-rule="evenodd" clip-rule="evenodd" d="M7.29297 19.2928L14.5859 12L7.29297 4.70706L8.70718 3.29285L16.
276       7072 11.2928C16.8947 11.4804 17.0001 11.7347 17.0001 12C17.0001 12.2652 16.8947 12.5195 16.7072 12.7071L8.70718 20.
277       7071L7.29297 19.2928Z" fill="currentColor"></path></svg></a>
278   </div>
279 </div>
280 <div id="disclosures" class="cookie-disclosure-visible">
281   <div id="cookie-disclosure" data-uia="cookie-disclosure" class="disclosure clearfix">
282     <p class="cookie-disclosure-message disclosure-message short" data-uia="cookie-disclosure-message-short">Netflix and
283     third parties use cookies<a class="pointer cookie-disclosure-link" role="button" href="#"
284     data-uia="cookie-disclosure-link" >(why?)</a>. You can change
285     <a class="pointer cookie-disclosure-link" role="button" href="#" data-uia="cookie-disclosure-link" >your cookie
286     preferences</a>.
287   </p>
288   <div class="cta-btn-container">
289     <button class="btn-accept btn-red" data-uia="cookie-disclosure-button-accept">Accept</button>
290     <button class="btn-reject btn-red" data-uia="cookie-disclosure-button-reject">Reject</button>
291     <button class="btn-preferences btn-red" data-uia="cookie-disclosure-button-preferences">Personalise my choices</
292     button>
293   </div>
294   <div class="btn-container">
295     <button data-uia="cookie-close-button" class="close-button">
296       <span class="icon-close" aria-hidden="true"></span><span class="visually-hidden">Close</span>
297     </button>
298   </div>
299 </div>
300 <div class="our-story-header-wrapper">
301   <div class="our-story-header our-story-header--has-language-selector" data-uia-nmhp="our-story-header">
302     <span class="svg-nfLogo our-story-logo nfLogo" data-uia="netflix-header-svg-logo-noclick">
303       <svg
304         viewBox="0 0 111 30"
305         data-uia="netflix-logo"
306         class="svg-icon svg-icon-netflix-logo">
```

USING UTILITY CLASSES: TWITCH



```
587 | <div class="shell-nav__search-container">
588 |   <div class="shell-nav__search"></div>
589 | </div>
590 | <div class="shell-nav__user-auth">
591 |   <div class="shell-nav__user-auth-button shell-nav__user-auth-button--login"></div>
592 |   <div class="shell-nav__user-auth-button shell-nav__user-auth-button--signup"></div>
593 | </div>
594 | <div class="shell-nav__user-card">
595 |   <div class="shell-nav__user-card-avatar"></div>
596 | </div>
597 | </div>
598 | <div class="shell-loader" data-a-target="shell-loader">
599 |   <div class="shell-loader__spinner"></div>
600 | </div>
601 | </div>
602 | <script>
603 |   window.__twilightApproximatedFirstPaint = performance.now();
604 | </script>
605 | <script src="https://p.twitchcdn.net/v3/polyfill.min.js?unknown&#x3D;polyfill&amp;flags&#x3D;gated&amp;features&#x3D;Array.prototype.
  find,Array.prototype.findIndex,Array.prototype.includes,Array.prototype.flatMap,default,fetch,Intl.~locale.en,Math.sign,Object.
  entries%7Calways%7Cgated,Object.values%7Calways%7Cgated,String.prototype.repeat,URL,HTMLCanvasElement.prototype.toBlob,
  IntersectionObserver,ResizeObserver,Symbol.iterator" crossorigin="anonymous"></script>
606 | <script src="https://static.twitchcdn.net/config/settings.5a890bd617397dd26d65ff9cc16a10da.js" crossorigin="anonymous"></script>
607 | <script>
608 |   try {
609 |     var defaultSpadeEndpoint = "https://spade.twitch.tv/track";
610 |     window.__twilightBuildID = "67a82d0e-5b4a-4feb-8a07-33f9a99fde99";
611 |     for (
612 |       var entries = document.cookie.split("; "),
613 |         cookies = {},
614 |         i = entries.length - 1;
615 |         i >= 0;
616 |         i--
617 |     ) {
618 |       var entry = entries[i].split("=", 2);
619 |       cookies[entry[0]] = entry[1];
```

Ln 587, Col 1 Spaces: 2 UTF-8 LF HTML Port: 5500

USING UTILITY CLASSES: SHOPIFY





Tailwind CSS

@tailwindcss

The team at [@Shopify](#) recently launched an all-new marketing site, built with Tailwind CSS 🥰

We just added it to our showcase to highlight some of our favorite details:

tailwindcss.com/showcase/shopi...

Start a free trial and enjoy 2 months of Shopify for \$1/month on select plans. [Sign up now](#)

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Watch a 2 min Shopify overview

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0:12 36.4K views Card required. By entering your email, you agree to our Terms.



Shopify 14m ago
Chris Chong has been a new tester for 2 items totaling \$140.



Net sales: \$59,798.01
↑ 0.39%



Active 30 in stock



37 orders to fulfill

5:48 PM · Feb 3, 2023 · 133.6K Views

62 Retweets

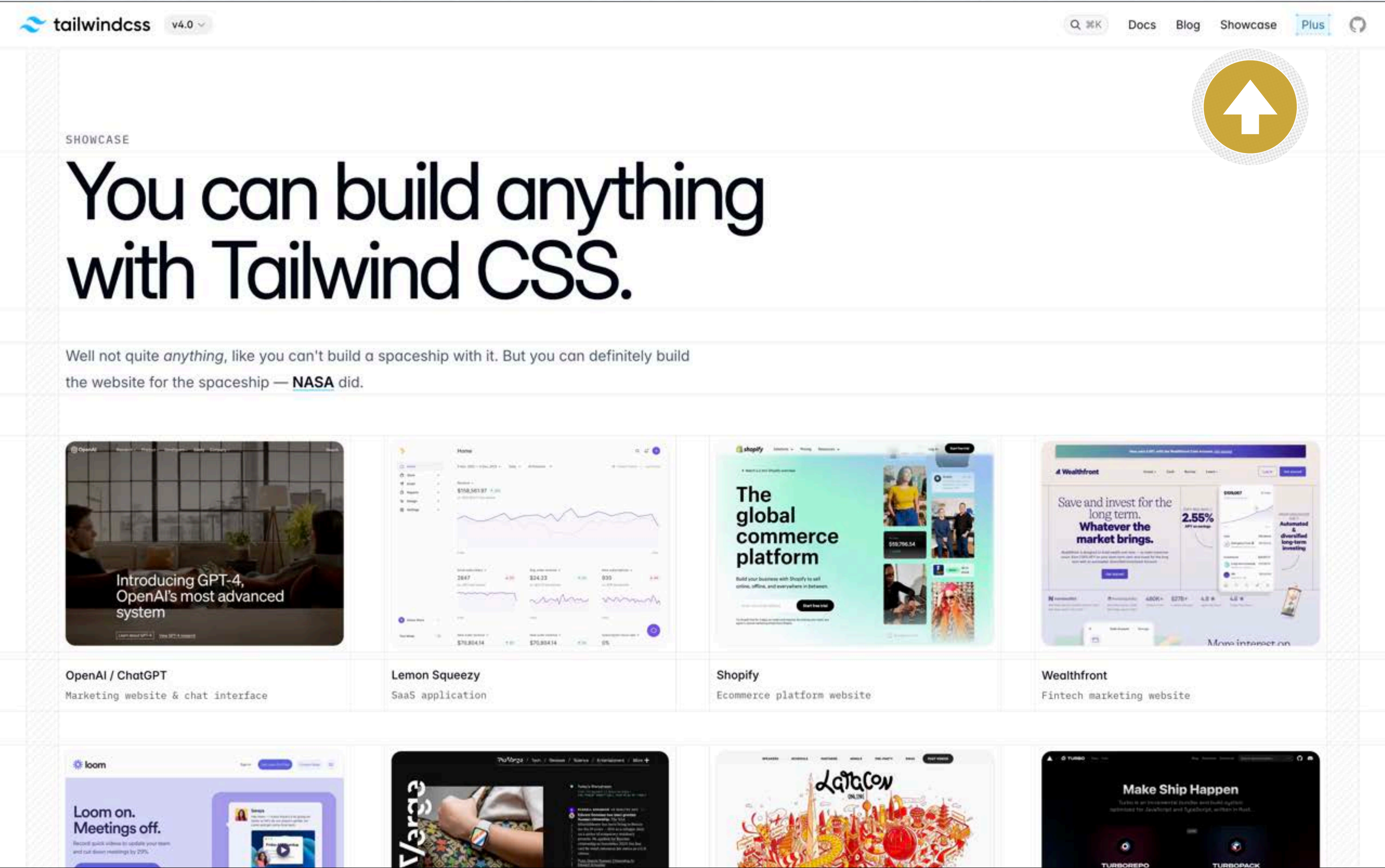
3 Quote Tweets

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