The Tutors Design System
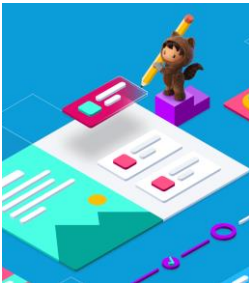
Jordan Harrison

What is a design system?

"

A design system isn't only a collection of the assets and components you use to build a digital product. Most Design Systems are really just Pattern Libraries: a big box of UI Lego pieces that can be assembled in near-infinite ways. All the pieces may be consistent, but that doesn't mean the assembled results will be. Your product is more than just a pile of reusable UI elements. It has structure and meaning.
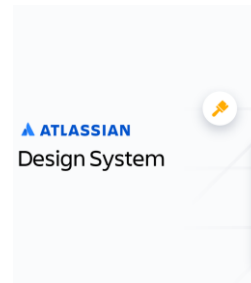
Emmet Connolly
Director of Product Design at Intercom

GitHub Primer

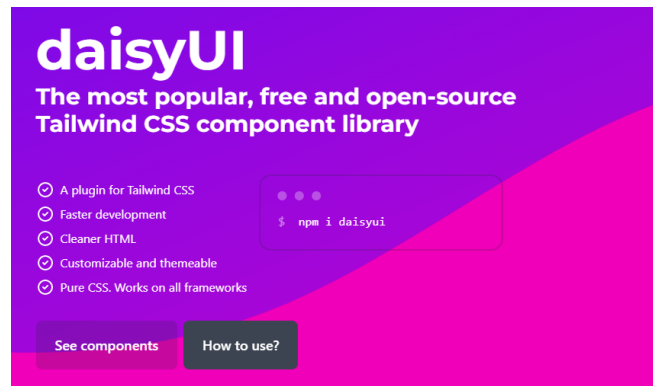**Salesforce Lightning Design System**

Atlassian Design System

Vercel Design System

About the Tutors Design System

- Based on a Tailwind CSS component library called DaisyUI
- Custom components added to simplify layout for developers
- Inter typeface used for legibility
- User-selectable themes for personal preferences & accessibility

Tutors Logo

- Logo based on original "Teacher & Whiteboard" icon.

- Logo changed to prevent copyright issues with FontAwesome.

- New logo represents the learning and experiences, with a whiteboard outline representing learning, a T to represent Tutors and an _ to represent developers.

Tutors Components

Header

- The header is unified for a more concise visual manner

- A secondary header is used for breadcrumbs and additional items

Cards

- Cards dominate the user experience, and have appropriate colours and icons to indicate the type of card and it's purpose

Responsive

- Components are built with a mobile first mindset

- They change layout responsively depending on the device used

Tutors Themes

- Each theme is loaded on user selection
- Colours & fonts are changed to user's preference

tailwind.config.js

```
daisyui: {
  styled: true,
  themes: [
    {
      "tutors": {
        "primary": "#37919B",
        "primary-focus": "#2C747C",
        "primary-content": "#ffffff",
        "secondary": "#73379B",
        "secondary-focus": "#5C2C7C",
        "secondary-content": "#ffffff",
        "accent": "#5F9B37",
        "accent-focus": "#4C7C2C",
        "accent-content": "#ffffff",
        "neutral": "#2d2a32",
        "neutral-focus": "#242128",
        "neutral-content": "#ffffff",
        "base-100": "#fbfbfc",
        "base-200": "#f6f6f6",
        "base-300": "#f2f3f5",
        "base-content": "#1f2937",
        "info": "#37919b",
        "success": "#557927",
        "warning": "#d27711",
        "error": "#ba5150",
        "font-family": ["Inter, sans-serif",
      "tutors-dark": {
        "primary": "#37919b",
        "primary-focus": "#2C747C",
        "primary-content": "#ffffff",
        "secondary": "#f000b8",
        "secondary-focus": "#bd0091",
        "secondary-content": "#ffffff",
        "accent": "#37cdbe",
        "accent-focus": "#2aa79b",
        "accent-content": "#ffffff",
        "neutral": "#2a2e37",
        "neutral-focus": "#16181d",
        "neutral-content": "#ebecf0",
        "base-100": "#3d4451",
        "base-200": "#2a2e37",
        "base-300": "#16181d",
        "base-content": "#ebecf0",
        "info": "#37919b",
        "success": "#557927",
        "warning": "#d27711",
        "error": "#ba5150",
        "font-family": ["Inter, sans-serif"]
      "tutors-black": {
```

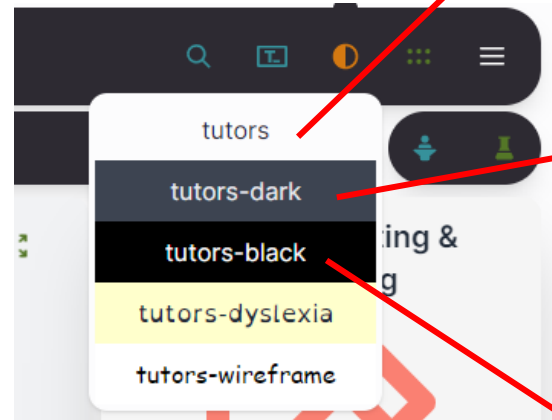src\components\navigators\support\ThemeSwitch.svelte

```html
<script>
  import Icon from "../../iconography/Icon.svelte";
  import { setIconLib, themeIcons, themes } from "../../iconography/themes";

  const htmlTag = document.getElementsByTagName("html")[0];

  function setTheme(selectedTheme) {
    window.localStorage.setItem("site-theme", selectedTheme);
    window.localStorage.setItem("theme", selectedTheme);
    htmlTag.setAttribute("data-theme", selectedTheme);
    setIconLib(themeIcons[selectedTheme]);
    console.log("setting theme to ", selectedTheme);
  }
</script>

<div class="flex-none tooltip tooltip-top dropdown dropdown-end dropdown-hover">
  <Icon type="dark" button="true" />
  <ul class="shadow menu dropdown-content bg-base-100 text-base-content w-48 p-1 rounded-xl">
    {#each themes as theme}
      <button on:click={() => setTheme(theme)} class="bg-base-100 text-base-content py-2"
              data-theme="{theme}">{theme}</button>
    {/each}
  </ul>
</div>
```
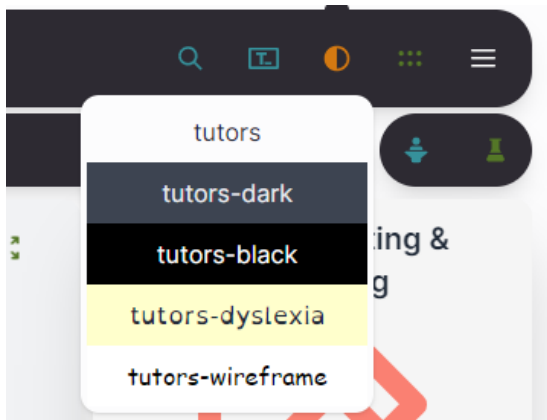
tutors
tutors-dark
tutors-black
tutors-dyslexia
tutors-wireframe

Font Usage

- The default font used in Tutors is the Inter typeface, which was designed specifically for use on screens and is legible at all sizes.

- The tutors-dyslexia theme uses the OpenDyslexic font, which has larger bottoms on the text which grounds the text, helping those with dyslexia able to read it easily.

Where are these defined?

- Themes colours defined in tailwind.config.js

- Additional components defined in src/tailwind.css

```
 11    daisyui: {
 12      styled: true,
 13      themes: [
 14        {
 15          "tutors": {
 16            "primary": "#37919B",
 17            "primary-focus": "#2C747C",
 18            "primary-content": "#ffffff",
 19            "secondary": "#73379B",
 20            "secondary-focus": "#5C2C7C",
 21            "secondary-content": "#ffffff",
 22            "accent": "#5F9B37",
 23            "accent-focus": "#4C7C2C",
 24            "accent-content": "#ffffff",
 25            "neutral": "#2d2a32",
 26            "neutral-focus": "#242128",
 27            "neutral-content": "#ffffff",
 28            "base-100": "#fbfbfc",
 29            "base-200": "#f6f6f6",
 30            "base-300": "#f2f3f5",
 31            "base-content": "#1f2937",
 32            "info": "#37919b",
 33            "success": "#557927",
 34            "warning": "#d27711",
 35            "error": "#ba5150",
 36            "font-family": ["Inter, sans-serif"]
 37          }, "tutors-dark": {
 38            "primary": "#37919b",
 39            "primary-focus": "#2C747C",
 40            "primary-content": "#ffffff",
```
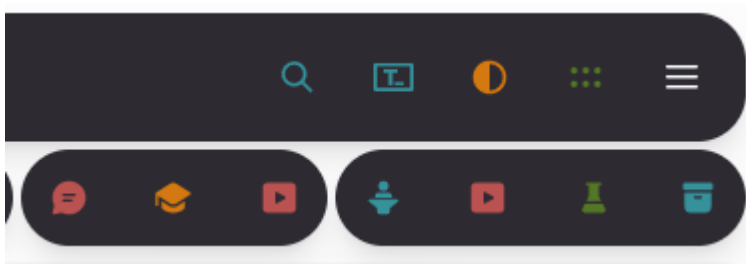
```
  1    @tailwind base;
  2    @tailwind components;
  3    @tailwind utilities;
  4
  5    @layer components {
  6      .card-corner {
  7        @apply rounded-xl;
  8      }
  9      .nav-corner {
 10        @apply rounded-3xl;
 11      }
 12      .tutors-container {
 13        @apply mx-auto px-3 antialiased bg-base-100 min-h-screen w-full 2xl:w-11/12
 14      }
 15      .navbar {
 16        @apply shadow-lg bg-neutral text-neutral-content rounded-box nav-corner mb-1 justify-end z-40 flex mt-2
 17      }
 18      .header-container {
 19        @apply mb-2 mt-2
 20      }
 21      .navbar-secondary {
 22        @apply flex flex-wrap lg:flex-nowrap mb-2
 23      }
 24      .navbar-title {
 25        @apply flex-1 hidden px-2 mx-2 lg:block
 26      }
 27      .navbar-calendar {
 28        @apply justify-center flex-1 hidden px-2 mx-2 lg:flex text-left text-base-content
 29      }
 30      .calendar {
 31        @apply hidden lg:block w-auto h-auto pl-4 pr-4 rounded-box rounded-xl text-base-content tooltip text-white
 32      }
 33      .presence {
 34        @apply hidden lg:block w-auto h-auto pl-4 pr-4 rounded-box rounded-xl text-base-content tooltip text-white
 35      }
 36      .navbar-icon {
 37        @apply btn btn-square btn-ghost border-0 nav-corner
 38      }
 39      .navbar-icon:hover {
 40        --tw-border-opacity:1
 41      }
```

Icons

- Custom icons can be defined by educators in the course properties.yaml
- Icons imported using [iconify icon sets](#)


```
22
23   iconset:
24     moodle:
25       icon: fa-solid:graduation-cap
26       colour: warning
27     github:
28       icon: logos:github-octocat
29       colour: warning
```