

Tailwind CSS Crash Course

Companion document for the Scrimba Interactive Course

presented by



Tailwind CSS Crash Course

Presented by Scrimba & Coder's Tape

A note from the instructor

Welcome to the Scrimba Tailwind CSS Crash Course! Firstly, I want to thank you for joining in and learning Tailwind in Scrimba's awesome platform. e purpose of this document is to help you learn all of the utility classes and serve as a guide during the course and beyond. We will start with the basics and build our knowledge one step at a time. Let's get started!

Victor Gonzalez, course instructor

Coder's Tape

During this course we will be exploring the features of Tailwind CSS. As a quick recap, Tailwind is a utility- rst framework designed to speed up the design process by completely removing the need for CSS. In the past, every HTML element would get a single class and that class would contain a lot of custom CSS in a separate CSS le. ough this is still the general practice, this practice leads to huge CSS les, reduces the ease of maintaining CSS and yields overall poorer developer experience.

Another advantage of a utility framework is its superior performance with caching due to not busting the cache for small CSS changes. Tailwind has been designed with incredible sensible defaults to make your designs look and feel "polished" and "designed" through the careful use of color palettes, color shades, sizing consistency and modern web best-practices. It's also worth noting, that Tailwind is mobile- rst and has an easy naming convention with responsive designs built-in.

Need some customizations? Tailwind's robust customization system will allow you to customize/tweak/modify everything in the framework through the use of the tailwind.config.js le. e customizations of Tailwind are beyond the scope of this course but rest assured that the default Tailwind classes are almost always exactly what you will need.

Advantages of Tailwind CSS

- No need for huge CSS les with custom CSS
- Easy to make design changes right from the view les
- Better developer experience
- Mobile- rst designs from the start
- Designed with defaults for a polished and designed look and feel
- Easily customizable with the congle

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Welcome

No notes here.

Background classes & shades

is set of classes change the background color of an element using a scale of 100-900 for shades and a palette of over 90 shades.

```
.bg-*-{100-900} {}
black, white, gray, red, orange,
yellow, green, teal, indigo, blue,
purple, pink
```

Element sizing is achieved using the w- and h- classes.

All of the numbers in Tailwind are based around the rem unit of measurement. 1 rem is equal to the size of the base font of the document. As an example, if the base font size is 16px then 1 rem is equal to 16px and we can deduce that 1.25 rem is equal to 20px. To help with these fractional numbers, Tailwind's numbered classes are multiplied by 4 to avoid having numbers with decimal places.

Tailwind's Numbering System

Assuming the base font size of the document is 16px

Pixels	rem	Tailwind
орх	o rem	О
4рх	0.25 rem	1
8рх	0.5 rem	2
12 px	0.75 rem	3
16 p x	1 rem	4
20 px	1.25 rem	5
24 px	1.5 rem	6
32 p x	2 rem	8
40 p x	2.5 rem	10

Continues to all of the available default sizes 12, 16, 20, 24, 32, 40, 48, 56, 64,

Sizing with w-* and h-* classes

```
.w-* {}
.h-* {}

Available sizes in REM
0, 1, 2, 3, 4, 5, 6, 8, 10, 12,
16, 20, 24, 32, 40, 48, 56, 64,

Sizing in percentages
1/2... 1/{3, 4, 5, 6, 12}

Sizing utilities
screen, full
```

Challenge 1 - Shades of Blue

Padding and margins with p-*, m-*, py-* and my-*

ese classes add padding and margin to an element using the Tailwind numbering system.

```
.p-* {}
.m-* {}
.p(x, y)-* {}
.m(x, y)-* {}
```

Styling Text with utility classes Part 1

Font styling is a huge part of any design and Tailwind has plenty of classes that we can use to style the text on our apps. It even includes utility classes for transformations like uppercase.

Styling Text with utility classes Part 2

In part 2, we continue to explore the available classes in Tailwind CSS.

```
// Styling
.italic {}
.not-italic {}
// Font Weight (Bold)
.font-hairline \{\,\} // 100
.font-semibold {} // 600
.font-bold {} // 700
.font-extrabold {} // 800
.font-black {} // 900
// Letter Spacing
.tracking-tighter \{\} // -0.05em
.tracking-tight \{\} // -0.025em
// Line Height/Spacing
// Text Decorations
.underline {}
.line-through {}
.no-underline {}
// Text Transform
.uppercase {}
.lowercase {}
.capitalize {}
.normal-case {}
```

Challenge 2 - Text Styling

```
<body>
   <!-- Title case heading 1 text in dark gray -->
   <h1 class="capitalize text-xl text-gray-900">
     Lorem ipsum dolor sit amet consectetur.
   <!-- Paragraph styling with 1.5 line heights & letter spacing -->
   Lorem ipsum dolor sit amet... [trucated]
   <!-- Treated like a quote with a background and plenty of padding. Italic title -->
   <div class="m-2 p-6 bg-blue-900 text-blue-200">
         Lorem ipsum dolor sit amet... [truncated]
      - Victor Gonzalez,
          <span class="italic">instructor</span>
   </div>
   <!-- Call to action button, blue with good padding and uppercase -->
   <button class="uppercase bg-blue-500 text-blue-100 px-4 py-3">Enroll Now</button>
</body>
```

Borders

ese classes will color, stylize and add radius to any border or corners.

```
// Colors
.border-{color}-{shade (100-900)}

// Border Style
.border-solid {}
.border-dashed {}
.border-dashed {}
.border-double {}
.border-none {}
```

```
// Border Radius
.rounded-none {} // 0
.rounded-sm {} // .125rem
.rounded {} // .25rem
.rounded-lg {} // .5rem
.rounded-full {} // 9999px
```

Challenge 3 - Button Challenge

```
<body>
   <!-- blue background, rounded, thick left border -->
   <div><button class="m-4 bg-blue-800 py-2 px-4 text-gray-400"</pre>
           text-sm rounded-lg border-1-8 border-blue-700">Submit</button></div>
   <!-- Red text, outlined -->
   <div><button class="m-4 border-2 border-red-500 text-red-500</pre>
            rounded px-3 py-1">Cancel</button></div>
   <!-- light Indigo background, bottom border, indigo text -->
   <div><button class="m-4 bg-indigo-200 border-b-4 border-t-4</pre>
        border-indigo-800 px-4 py-1">Save</button></div>
   <!-- Thick rounded, lots of padding, large button -->
   <div><button class="m-4 rounded-full border-4 px-16 py-3</pre>
       uppercase font-bold text-sm bg-orange-600
       border-orange-800">Buy Now</button></div>
    <!-- Outlined, serif font, uppercase, rounded -->
    <div><button class="m-4 border font-serif text-xs uppercase
        rounded-lg p-2">Send Postcard</button></div>
</body>
```

Display Modes

Most items are display block by default but that can easily be changed with the available display classes.

Flexbox

Tailwind uses Flexbox for the layout of items on the document. Flexbox is a css display property that de nes a ex container. Once a container has been assigned as a ex container, we can use all of the alignment utility classes to achieve the desired look.

```
.flex {}

// Default direction - horizontal alignment
.justify-start {}
.justify-center {}
.justify-end {}
.justify-between {}
.justify-around {}

// Default direction - vertical alignment
.items-stretch {}
.items-start {}
.items-center {}
.items-center {}
.items-baseline {}
```

```
// Flex Direction
.flex-row {}
.flex-row-reverse {}
.flex-col {}
.flex-col-reverse {}

// Wrapping
.flex-no-wrap {}
.flex-wrap {}
.flex-wrap -reverse {}
```

Challenge 4 - Block Gallery

```
<body>
   <!-- Must take up all of the available space -->
   <!-- Evenly distributed 3x3 grid -->
   <!-- Letters must be centered on the square -->
   <!-- Must have some spacing between the blocks -->
   <div class="h-screen flex flex-wrap">
      <div class="flex w-1/3 h-1/3">
          <div class="bg-teal-100 m-2 w-full flex justify-center items-center">A</div>
       <div class="flex w-1/3 h-1/3">
          </div>
       <div class="flex w-1/3 h-1/3">
          <div class="bq-teal-300 m-2 w-full flex justify-center items-center">C</div>
       <div class="flex w-1/3 h-1/3">
          <div class="bg-teal-400 m-2 w-full flex justify-center items-center">D</div>
       </div>
          <div class="bg-teal-500 m-2 w-full flex justify-center items-center">E</div>
       <div class="flex w-1/3 h-1/3">
          <div class="bg-teal-600 m-2 w-full flex justify-center items-center">F</div>
       <div class="flex w-1/3 h-1/3">
          <div class="bg-teal-700 m-2 w-full flex justify-center items-center">G</div>
       <div class="flex w-1/3 h-1/3">
           <div class="bg-teal-800 m-2 w-full flex justify-center items-center">H</div>
       <div class="flex w-1/3 h-1/3">
          <div class="bg-teal-900 m-2 w-full flex justify-center items-center">I</div>
   </div>
```

Responsive Design

All modern applications should be able to responsively t into the screen size. Tailwind is a mobile- rst framework, meaning that all of the classes that we have talked about thus far, are for mobile and trickle up to desktop. But we can change this with a couple of modi ers.

```
// Default breakpoints
[all] // Opx
.sm: // 640px
.md: // 768px
.lg: // 1024px
.xl: // 1280px
```

Hover Modi er

We can tap into the built-in hover state in CSS using the hover: modi er along with any of the default classes to achieve interactive designs.

Focus Modi er

Adding a focus state is simple using the focus: modi er along with any of the default classes provided by Tailwind CSS.

Combination Modi ers

Sometimes, the design may require 2 modi ers at the same time. For example, you may need to change the hover state for a background color but only in md: size. Let's explore how to achieve this.

```
.md:hover:bg-{color}-{shade (100-900)} {} // hover background color
.md:focus:bg-{color}-{shade (100-900)} {} // focus background color
.md:hover:text-{color}-{shade (100-900)} {} // hover text color
.md:focus:text-{color}-{shade (100-900)} {} // focus text color
```

Other Utilities

ere are some other useful utilities that you should know about.

Challenge 5 - Input Component

Input elds are easily customizable with some utility classes.

Challenge 6 - Employee Card

Here's a full example of an employee card nicely styled using all default Tailwind classes.

```
<body class="bg-gray-600 flex justify-center items-center h-screen">
   <div class="w-2/3 flex flex-col break-words bg-white shadow-lg rounded-lg</pre>
       overflow-hidden">
       <div class="text-gray-700 bg-gray-200 text-lg px-6 py-4 mb-0">
          The title of the card here</div>
       <div class="w-full px-6 py-4 flex justify-between items-center border-t
          border-gray-200">
          <div class="bg-orange-600 text-xs uppercase px-2 py-1 rounded-full</pre>
              border border-gray-200 text-gray-200 font-bold">
              Under Review</div>
          <div class="text-sm">May 14, 1988</div>
       </div>
       <div class="w-full px-6 py-4 justify-between border-t border-gray-200">
          <div class="flex-1">
              Here is a short comment about this employee.
          </div>
       </div>
       <div class="rounded-b px-6 py-4 bg-gray-200">
           <div class="uppercase text-xs text-gray-600 font-bold">
              Employee</div>
          <div class="flex items-center pt-3">
              <div class="bg-blue-700 w-12 h-12 rounded-full uppercase</pre>
                  font-bold flex items-center justify-center text-sm
                  text-white">
                 VG</div>
              <div class="ml-4">Victor Gonzalez
                  Instructor
           </div>
       </div>
   </div>
</body>
```

Final Course Project - Landing Page

```
<html>
   <head>
       <link href="https://unpkg.com/tailwindcss@^1.0/dist/tailwind.min.css" rel="stylesheet">
   <body class="bg-gray-200 font-sans flex flex-col items-center">
       <header class="bg-indigo-700 w-full flex justify-center</pre>
           border-b-4 border-pink-500 px-4 py-3">
           <div class="max-w-4x1 w-ful1">
               <div class="flex items-center justify-between</pre>
                   <svg class="h-8 fill-current" xmlns="http://www.w3.org/2000/svg" viewBox="0 0 108 32"><path d="M16.</pre>
                   <button type="button"
                       class="block text-gray-500 hover:text-gray-400
                       focus:text-white focus:outline-none sm:hidden">
                       <svg class="h-6 w-6 fill-current" viewBox="0 0 24 24">
                           <path fill-rule="evenodd" d="M4 5h16a1 1 0 0 1 0 2H4a1 1 0 1 1 0-2zm0 6h16a1 1 0 0 1 0 2H4a</pre>
                   </button>
               </div>
               <div class="my-4">
                   <h1 class="text-2xl text-indigo-100">Want to learn Tailwind CSS?</h1>
                   Tailwind is the fastest growing utility-first
                   CSS framework. Let's learn it step by step.
                   <div class="relative mt-4 flex justify-between">
                           <a href="#" class="bg-pink-500"
                               text-indigo-100 font-bold mt-2 px-4
                                   py-2 rounded-full text-xs uppercase">
                                   Enroll Now</a>
                       </div>
                       <div class="absolute right-0 bg-white</pre>
                           rounded-full flex justify-center
                               items-center p-5 border-4
                               border-pink-500">
                           <img class="w-16 h-16" src="/images/tailwind-logo.png" />
                       </div>
                   </div>
               </div>
            </div>
       </header>
       <main class="mt-16 w-full flex flex-col items-center">
           <div class="max-w-4x1 mx-4 ">
               <h2 class="pb-1 font-bold text-xl text-indigo-700"
                   border-b border-indigo-200">How It Works</h2>
               Tailwind is designed for rapid development of
               modern applications. At its core, it is a robust mobile-first design system built
               with developer experience in mind. After using Tailwind CSS, you will find it
               difficult to go back to use anything else. Learn all about it in this all-inclusive
               course.
               <h2 class="mt-8 pb-1 font-bold text-xl text-indigo-700
                   border-b border-indigo-200">Advantages</h2>
```

```
<div class="flex flex-col sm:flex-row sm:-mx-2">
        <div class="mt-4 sm:w-1/3">
            <div class="bg-white p-8 h-full border-b-4</pre>
                border-pink-500 rounded-lg flex flex-col
                items-center sm:mx-2 sm:p-3 md:p-8">
                <div class="bg-gray-200 text-indigo-700</pre>
                    w-16 p-2 rounded-full">
                    <svg class="h-12 w-12 fill-current" xmlns="http://www.w3.org/2000/svg" viewBox="0 0 24</pre>
                <div class="mt-4 font-bold">No Custom CSS</div>
                <div class="mt-2 text-sm text-gray-600</pre>
                text-center">Tailwind's advanced class extraction will leave your
                project free of custom CSS.</div>
            </div>
        </div>
        <div class="mt-4 sm:w-1/3">
            <div class="bg-white p-8 h-full border-b-4"
                border-pink-500 rounded-lg flex flex-col
                items-center sm:mx-2 sm:p-3 md:p-8">
                <div class="bg-gray-200 text-indigo-700 w-16</pre>
                    p-2 rounded-full">
                    <svg class="h-12 w-12 fill-current" xmlns="http://www.w3.org/2000/svg" viewBox="0 0 24</pre>
                <div class="mt-4 font-bold">Developer Experience</div>
                <div class="mt-2 text-sm text-gray-600</pre>
                    text-center">Tailwind is designed with your happiness in mind.
                    The ease of performing changes is refreshing. </div>
            </div>
        </div>
        <div class="mt-4 sm:w-1/3">
            <div class="bg-white p-8 border-b-4
                border-pink-500 rounded-lg flex flex-col
                items-center sm:mx-2 sm:p-3 md:p-8">
                <div class="bg-gray-200 text-indigo-700 w-16
                    p-2 rounded-full">
                     <svg class="h-12 w-12 fill-current" xmlns="http://www.w3.org/2000/svg" viewBox="0 0 24</pre>
                </div>
                <div class="mt-4 font-bold">Mobile Friendly</div>
                <div class="mt-2 text-sm text-gray-600"
                     text-center">Modern applications demand mobile-friendly &
                    Tailwind's responsive modifiers make it easy. </div>
            </div>
        </div>
    </div>
</div>
<div class="bg-gray-800 py-12 mt-12 w-full flex flex-col</pre>
    items-center border-t-2 border-black">
    <h2 class="pb-1 font-bold text-xl text-gray-400">
        Sign up to download the free PDF</h2>
    <form class="max-w-x1 w-full text-gray-200 mt-4 px-8 md:px-0" action="#" method="post" autocomplete="of
        <div class="flex flex-col md:flex-row md:-mx-2">
            <label for="first name" class="sr-only">First name</label>
            <input class="bg-gray-700 mt-4 md:mx-2 border</pre>
                border-gray-600 rounded-lg py-2 px-4 block
                w-full md:w-1/2" type="text" placeholder="First name"
                id="first_name">
            <label for="last_name" class="sr-only">Last name
            <input class="bg-gray-700 mt-4 md:mx-2 border</pre>
            border-gray-600 rounded-lg py-2 px-4 block
            w-full md:w-1/2" type="text" placeholder="Last name"
            id="last_name">
        </div>
```

```
<div class="flex flex-col md:flex-row md:-mx-2">
                       <label for="email" class="sr-only">Your email</label>
                       <input class="bg-gray-700 mt-4 md:mx-2 border</pre>
                       border-gray-600 rounded-lg py-2 px-4 block
                        w-full md:w-1/2" type="email" placeholder="john@email.com"
                       <label for="title" class="sr-only">Title</label>
                        <input class="bg-gray-700 mt-4 md:mx-2</pre>
                       border border-gray-600 rounded-lg py-2 px-4
                       block w-full md:w-1/2" type="text" placeholder="Your title"
                       id="title">
                    </div>
                    <div class="flex flex-col md:flex-row md:-mx-2">
                       <button class="bg-blue-600 text-sm mt-4 md:mx-2</pre>
                           rounded-lg py-2 px-4 block w-full">Create account</button>
                   </div>
                </form>
            </div>
       </main>
       <footer class="w-full bg-gray-800 pb-8 text-center text-xs</pre>
           font-light text-gray-600">
           Copyright © 2019 Scrimba
       </footer>
   </body>
</html>
```