

HTML, CSS & Tailwind CSS Session

Welcome to our comprehensive web development session! Today we'll explore the fundamental building blocks of modern web development: HTML for structure, CSS for styling, and Tailwind CSS for rapid UI development. This session is designed for beginner developers ready to master these essential technologies.



Understanding the Core Technologies

HTML (HyperText Markup Language)

The backbone of web content, HTML defines the structure and meaning of web pages using semantic elements like headings, paragraphs, links, and images.

CSS (Cascading Style Sheets)

The presentation layer that controls visual appearance—colours, fonts, layouts, spacing, and animations. CSS is embedded in HTML via `<link>` tags or `<style>` blocks.

Tailwind CSS

A utility-first CSS framework that provides pre-built classes for rapid styling. Tailwind integrates with HTML through class attributes, eliminating the need to write custom CSS.

HTML Document Foundation - Line by Line

Let's break down the essential HTML document structure:

01

DOCTYPE Declaration

```
<!DOCTYPE html>
```

Tells the browser this is an HTML5 document. Must be the very first line.

02

HTML Root Element

```
<html lang="en">
```

- `<html>` - Root container for all content
- `lang="en"` - Specifies English language for accessibility and SEO

03

Head Section

```
<head>
```

Contains metadata not visible to users but essential for browsers and search engines.

04

Character Encoding

```
<meta charset="UTF-8">
```

UTF-8 supports all international characters and symbols.

05

Viewport Meta Tag

```
<meta name="viewport" content="width=device-width, initial-scale=1.0">
```

- `width=device-width` - Makes width match device screen width
- `initial-scale=1.0` - Sets initial zoom level to 100%

Essential for responsive design on mobile devices

The diagram illustrates the structure of an HTML document. It shows a monitor displaying the following code:

```
<!DOCTYPE html>
<html>
  <head>
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
  </head>
</html>
```

To the left of the monitor is a pink sidebar containing code snippets like:

```
<body>
  <h1>Hello World!</h1>
  <p>This is a simple HTML page.</p>
</body>
```

To the right of the monitor is a blue sidebar containing code snippets like:

```
<script>
  window.addEventListener("load", function() {
    // Your JavaScript logic here
  });
</script>
```

At the bottom of the slide, there is a footer with links: Copyright Inflearnt, Terms of Service, and Privacy Policy.

Head Section Resources - Line by Line

Continuing with the head section resources:

01

```
<title>Portfolio</title>
```

Page Title

- Appears in browser tab
- Used by search engines as clickable headline in results
- Should be descriptive and unique for each page

02

```
<script src="https://cdn.tailwindcss.com"></script>
```

Tailwind CSS CDN

- `<script>` - Loads JavaScript that processes Tailwind classes
- `src` - Points to Tailwind's Content Delivery Network
- CDN provides fast, cached delivery from global servers
- Processes utility classes in real-time

03

```
<link rel="stylesheet" href="style.css">
```

External CSS Link

- `<link>` - Links external resources to HTML document
- `rel="stylesheet"` - Specifies this is a CSS stylesheet
- `href="style.css"` - Path to your custom CSS file
- Loads after Tailwind, allowing custom styles to override defaults

04

```
</head>
```

Head Closing Tag

Ends the metadata section.

The screenshot shows a dark-themed website header. On the left is the 'Dexelupper' logo. To the right are four navigation links: 'Features', 'Pricing', 'Documentation', and a 'Sign Up' button. Below the header is a large, stylized graphic of a computer monitor displaying a terminal window with the text '</HLL/>' and various colored horizontal bars. The background of the page features a gradient from red to blue.

Unlock the power of semantic code

Exploring the HTML Document Structure

Let's examine our `index.html` file, starting with the essential document foundation:

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Portfolio</title>
  <script src="https://cdn.tailwindcss.com"></script>
  <link rel="stylesheet" href="style.css">
</head>
```

- `<!DOCTYPE html>` - Declares HTML5 document type
- `<html lang="en">` - Root element with English language specification
- `<meta charset="UTF-8">` - Sets character encoding for proper text display
- `<meta name="viewport">` - Ensures responsive design on mobile devices
- `<title>` - Sets browser tab title
- `<script src="https://cdn.tailwindcss.com">` - Loads Tailwind CSS framework
- `<link rel="stylesheet" href="style.css">` - Links external CSS file

Body Tag and Navigation Structure - Line by Line

Now let's examine the body and navigation elements:

```
<body class="bg-gray-900 text-white">
```

Body Element with Tailwind Classes

- `<body>` - Contains all visible page content
- `bg-gray-900` - Very dark gray background color (#111827)
- `text-white` - Sets default text color to white (#ffffff)
- These classes apply to entire page unless overridden

```
<!-- Navigation -->
```

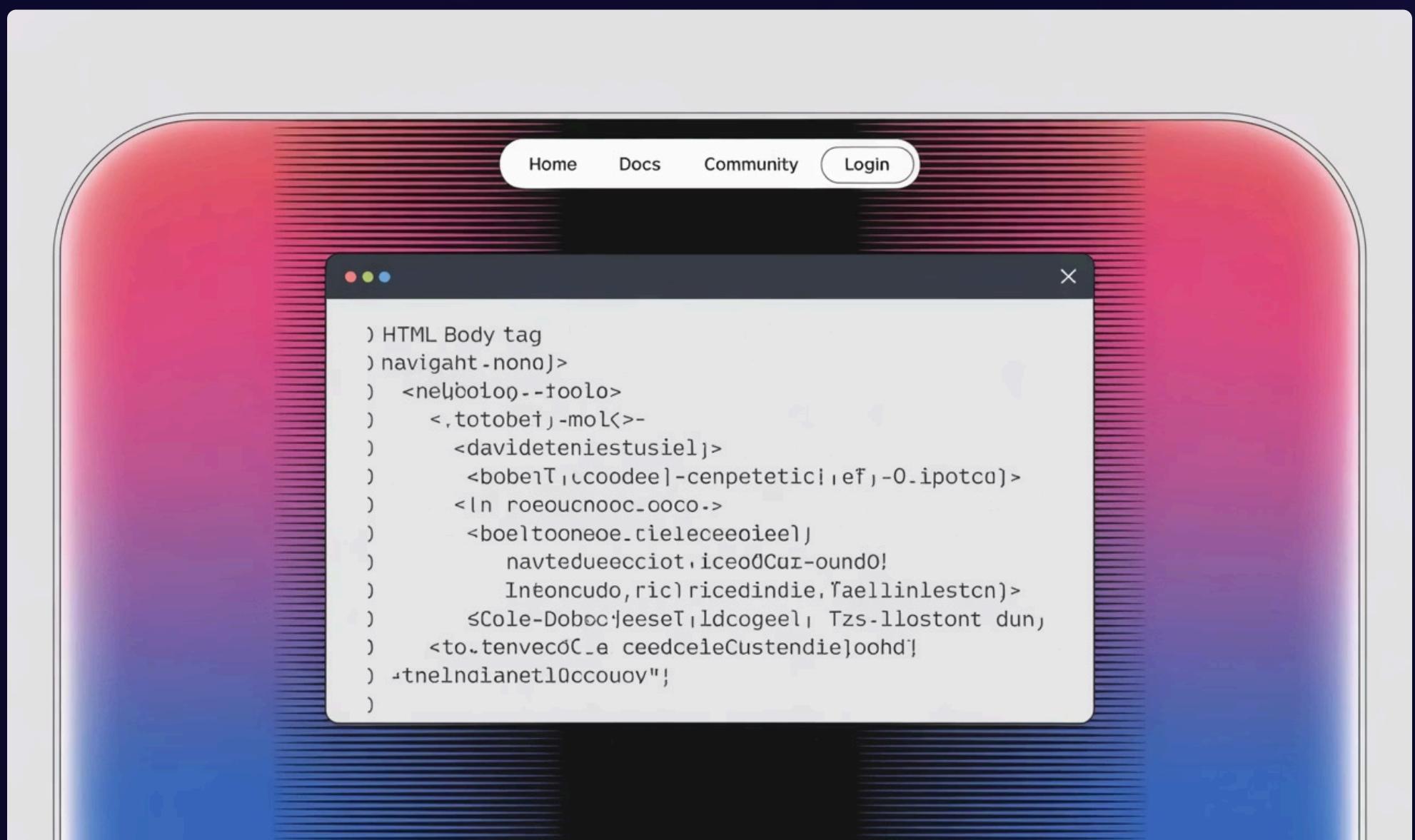
HTML Comment

Documentation for developers, not visible to users.

```
<nav class="fixed top-0 left-0 right-0 z-50 bg-gray-900/90 backdrop-blur-md">
```

Navigation Container

- `<nav>` - Semantic HTML5 element for navigation links
- `fixed` - Removes element from normal flow, positions relative to viewport
- `top-0 left-0 right-0` - Positions at very top, spanning full width
- `z-50` - High z-index (50) ensures nav stays above other elements
- `bg-gray-900/90` - Semi-transparent dark background (90% opacity)
- `backdrop-blur-md` - Applies medium blur effect to content behind nav



Navigation Inner Structure - Line by Line

Breaking down the navigation's inner container and layout:

01

```
<div class="max-w-7xl mx-auto  
px-6 py-4">
```

Navigation Content Container

- `<div>` - Generic container element
- `max-w-7xl` - Maximum width of 80rem (1280px)
- `mx-auto` - Horizontal margin auto (centers the container)
- `px-6` - Horizontal padding of 1.5rem (24px) on left and right
- `py-4` - Vertical padding of 1rem (16px) on top and bottom

02

```
<div class="flex items-center  
justify-between">
```

Flexbox Layout Container

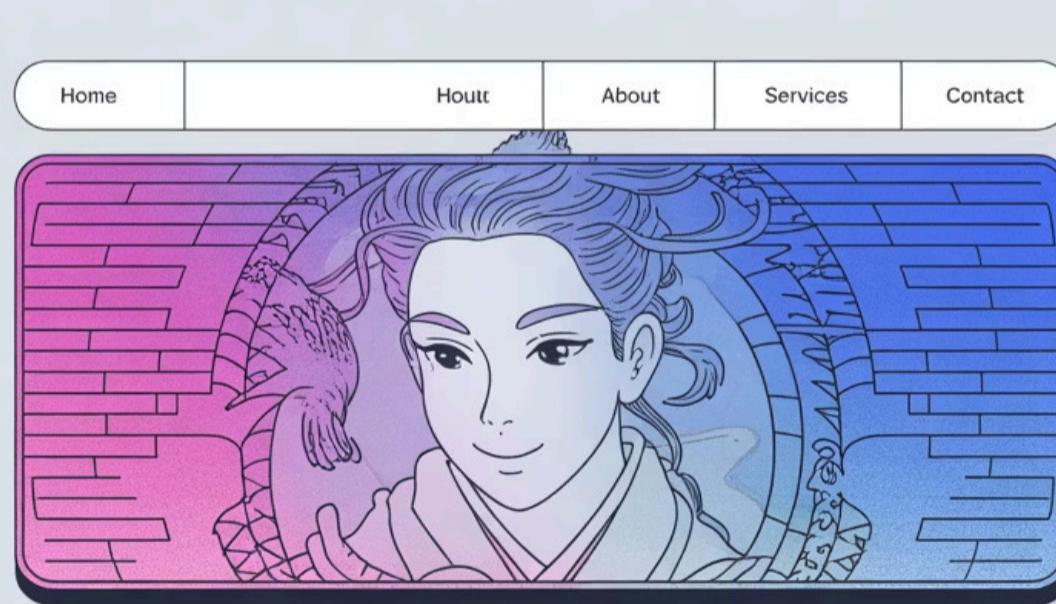
- `flex` - Enables flexbox layout
- `items-center` - Vertically centers flex items (`align-items: center`)
- `justify-between` - Distributes items with space between them

03

```
<div class="text-blue-400 text-xl  
font-bold">Portfolio</div>
```

Logo/Brand Element

- `text-blue-400` - Blue color (#60a5fa)
- `text-xl` - Font size of 1.25rem (20px)
- `font-bold` - Font weight of 700 (bold)



Explore the code

```
<LLL>  
<topoeet tonlott ognlectinei>  
<topoeet xaoott aogolcesllxioi..segvilliant>  
<aunc at,upett ieattv ectnestt,sagusits, and yolitte,ttest>  
<tonjnect.loacettt,1ll:veett'l>  
<conbnect!>
```

Navigation Section Analysis

The navigation creates a fixed header with sophisticated styling:

```
<nav class="fixed top-0 left-0 right-0 z-50 bg-gray-900/90 backdrop-blur-md">  
  <div class="max-w-7xl mx-auto px-6 py-4">  
    <div class="flex items-center justify-between">
```



1 Positioning Classes

`fixed top-0 left-0 right-0` - Positions navigation at viewport top, `z-50` ensures it stays above other elements

2 Background Styling

`bg-gray-900/90` - Semi-transparent dark background, `backdrop-blur-md` creates modern glass effect

3 Layout Structure

`max-w-7xl mx-auto` - Centres content with maximum width, `flex` `items-center justify-between` spaces elements evenly

Navigation Links and Theme Toggle - Line by Line

Examining the navigation menu items and theme toggle:

01

```
<div class="flex items-center space-x-8">
```

Navigation Menu Container

- `flex` - Flexbox layout for menu items
- `items-center` - Vertically centers all menu items
- `space-x-8` - Adds 2rem (32px) horizontal space between child elements

02

```
<a href="#home" class="nav-link hover:text-blue-400 transition-colors">About</a>
```

Navigation Link

- `<a>` - Anchor element for navigation
- `href="#home"` - Links to element with id="home" (internal anchor)
- `nav-link` - Custom CSS class for additional styling
- `hover:text-blue-400` - Changes text color to blue on hover
- `transition-colors` - Smooth color transition animation

03

```
<div class="p-2 rounded-lg hover:bg-gray-800 transition-colors">
```

Theme Toggle Container

- `p-2` - Padding of 0.5rem (8px) on all sides
- `rounded-lg` - Large border radius (0.5rem/8px)
- `hover:bg-gray-800` - Dark gray background on hover
- `transition-colors` - Smooth background color transition



SVG Icon Structure - Line by Line

Breaking down the SVG icon used in the theme toggle:

01

```
<svg class="w-5 h-5" fill="none"  
stroke="currentColor" viewBox="0 0 24 24">
```

SVG Element

- `<svg>` - Scalable Vector Graphics element
- `w-5 h-5` - Width and height of 1.25rem (20px)
- `fill="none"` - No fill color (transparent interior)
- `stroke="currentColor"` - Stroke uses current text color (inherits from parent)
- `viewBox="0 0 24 24"` - Defines coordinate system (24x24 units)

02

```
<path stroke-linecap="round" stroke-linejoin="round"  
stroke-width="2" d="M12 3v1m0 16v1m9-9h-1M4  
12H3m15.364 6.364l-.707-.707M6.343  
6.343l-.707-.707m12.728 0l-.707.707M6.343  
17.657l-.707.707M16 12a4 4 0 1 1-8 0 4 4 0 0 1 8 0z">
```

SVG Path Element

- `<path>` - Defines the shape using path data
- `stroke-linecap="round"` - Rounded line endings
- `stroke-linejoin="round"` - Rounded line joints
- `stroke-width="2"` - Line thickness of 2 units
- `d="..."` - Path data defining the sun icon shape (lines and circle)



Hero Section Container - Line by Line

Now let's examine the hero section structure:

01

```
<section id="home" class="min-h-screen flex flex-col items-center justify-center px-6">
```

Hero Section Element

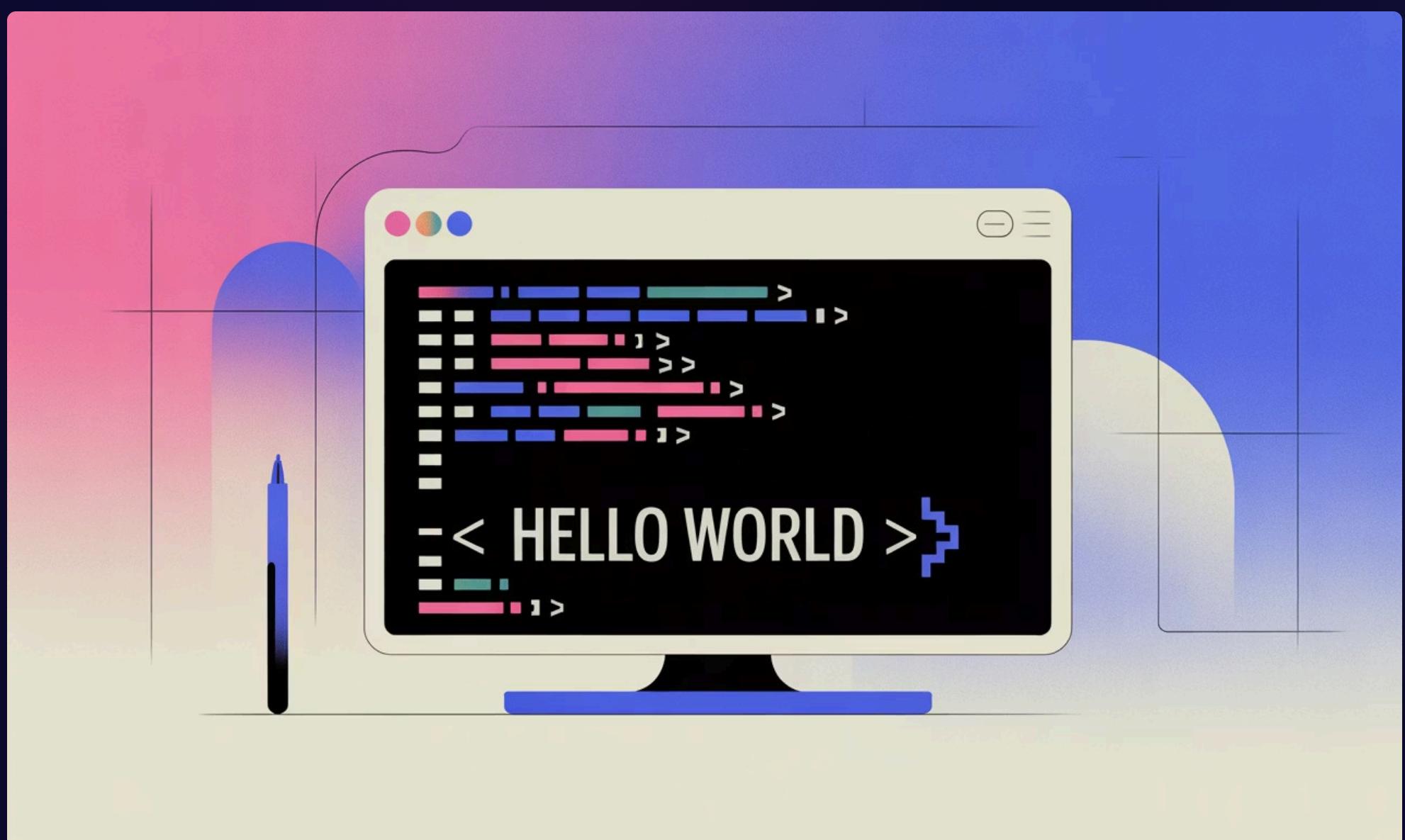
- `<section>` - Semantic HTML5 element for distinct content sections
- `id="home"` - Unique identifier for navigation anchor linking
- `min-h-screen` - Minimum height of 100vh (full viewport height)
- `flex` - Enables flexbox layout
- `flex-col` - Arranges flex items in column direction (vertical)
- `items-center` - Centers items horizontally (cross-axis)
- `justify-center` - Centers items vertically (main-axis)
- `px-6` - Horizontal padding of 1.5rem (24px)

02

```
<div class="text-center max-w-4xl mx-auto">
```

Hero Content Container

- `text-center` - Centers all text content
- `max-w-4xl` - Maximum width of 56rem (896px)
- `mx-auto` - Centers container horizontally with auto margins

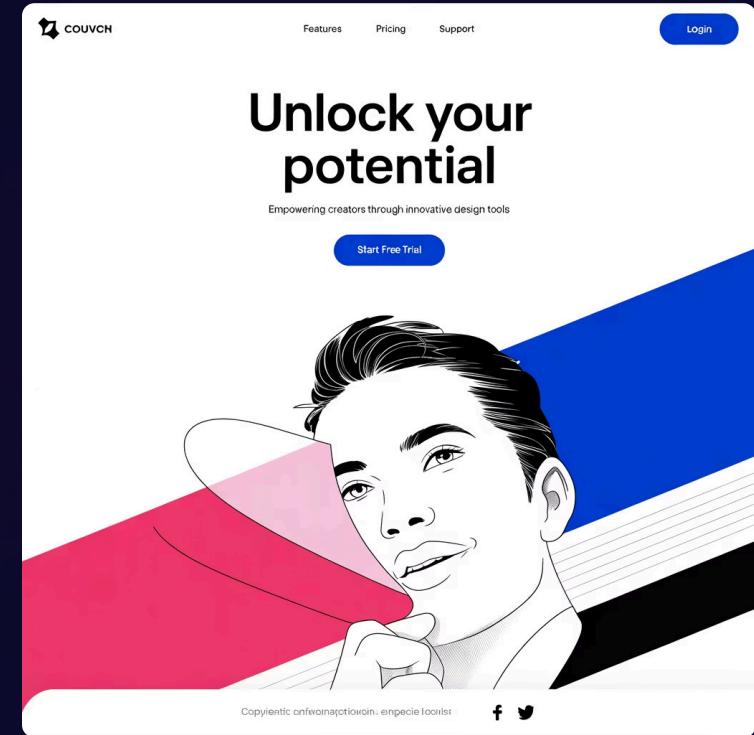


Hero Section Breakdown

The hero section creates an impressive landing area:

```
<section id="home" class="min-h-screen flex flex-col items-center justify-center px-6">  
  <h1 class="text-6xl md:text-7xl font-bold mb-4">  
    Donald <span class="text-blue-400">Trump</span>  
  </h1>
```

- `min-h-screen` - Ensures full viewport height
- `flex flex-col items-center justify-center` - Centres content vertically and horizontally
- `text-6xl md:text-7xl` - Responsive text sizing (large on mobile, extra large on medium screens)
- `text-blue-400` - Applies blue colour to accent text



The hero includes a profile image placeholder, name styling, and social media links with hover effects for enhanced user interaction.

Profile Image Placeholder - Line by Line

Examining the profile image container structure:

01

```
<div class="w-32 h-32 mx-auto mb-8 rounded-full bg-gray-700 border-4 border-blue-500 flex items-center justify-center">
```

Profile Image Container

- w-32 - Width of 8rem (128px)
- h-32 - Height of 8rem (128px)
- mx-auto - Centers horizontally with auto margins
- mb-8 - Bottom margin of 2rem (32px)
- rounded-full - Border radius of 50% (creates perfect circle)
- bg-gray-700 - Dark gray background color (#374151)
- border-4 - Border width of 4px
- border-blue-500 - Blue border color (#3b82f6)
- flex - Enables flexbox layout
- items-center - Centers content vertically
- justify-center - Centers content horizontally

02

```
<span class="text-gray-400 text-sm">Profile Image</span>
```

Placeholder Text

- - Inline text element
- text-gray-400 - Light gray text color (#9ca3af)
- text-sm - Small font size of 0.875rem (14px)



Main Heading and Subtitle - Line by Line

Breaking down the main heading and subtitle elements:

01

```
<h1 class="text-6xl md:text-7xl  
font-bold mb-4">
```

Main Heading Element

- `<h1>` - Primary heading element (most important heading on page)
- `text-6xl` - Font size of 3.75rem (60px) on mobile
- `md:text-7xl` - Font size of 4.5rem (72px) on medium screens and up
- `font-bold` - Font weight of 700 (bold)
- `mb-4` - Bottom margin of 1rem (16px)

02

```
Donald <span class="text-blue-  
400">Trump</span>
```

Heading Content

- Plain text "Donald" uses inherited white color
- `` - Inline element for styling part of text
- `text-blue-400` - Blue color (#60a5fa) for "Trump"

03

```
<h2 class="text-xl md:text-2xl  
text-gray-300 mb-6">Business  
Mogul & President</h2>
```

Subtitle Element

- `<h2>` - Secondary heading element
- `text-xl` - Font size of 1.25rem (20px) on mobile
- `md:text-2xl` - Font size of 1.5rem (24px) on medium screens and up
- `text-gray-300` - Light gray color (#d1d5db)
- `mb-6` - Bottom margin of 1.5rem (24px)



Description Paragraph - Line by Line

Examining the hero description paragraph:

01

```
<p class="text-gray-400 text-lg leading-relaxed mb-12  
max-w-3xl mx-auto">
```

Description Paragraph Element

- `<p>` - Paragraph element for body text
- `text-gray-400` - Medium gray text color (#9ca3af)
- `text-lg` - Font size of 1.125rem (18px)
- `leading-relaxed` - Line height of 1.625 (62.5% more than normal)
- `mb-12` - Bottom margin of 3rem (48px)
- `max-w-3xl` - Maximum width of 48rem (768px)
- `mx-auto` - Centers paragraph horizontally

02

Making America Great Again through tremendous deals and beautiful buildings. The most successful businessman and president you've ever seen.

Paragraph Content

- Multi-line text content describing the person
- Uses character-appropriate language and tone
- Provides context and personality to the portfolio



Profile Image & Personal Details Section

The hero section continues with personal branding elements:

```
<!-- Profile Image Placeholder -->
<div class="w-32 h-32 mx-auto mb-8 rounded-full bg-gray-700 border-4 border-blue-500 flex items-center justify-center">
  <span class="text-gray-400 text-sm">Profile Image</span>
</div>

<!-- Subtitle -->
<h2 class="text-xl md:text-2xl text-gray-300 mb-6">Business Mogul & President</h2>

<!-- Description -->
<p class="text-gray-400 text-lg leading-relaxed mb-12 max-w-3xl mx-auto">
  Making America Great Again through tremendous deals and beautiful buildings. The
  most successful businessman and president you've ever seen.
</p>
```

This code snippet defines the profile image placeholder, a subtitle, and a descriptive paragraph, all centered within the hero section to highlight key personal branding elements.

Fixed Dimensions

w-32 h-32 - Fixed dimensions for circular profile image

Shape & Border

rounded-full - Creates perfect circle shape
border-4 border-blue-500 - Adds blue accent border

Content Centering

max-w-3xl mx-auto - Constrains text width and centres content

Social Links & Scroll Indicator

The hero section concludes with interactive social media links and navigation cues:

```
<!-- Social Links -->
<div class="flex items-center justify-center space-x-6 mb-16">
  <a href="#" class="social-icon bg-blue-600 hover:bg-blue-700">
    <!-- Pinterest SVG path -->
    </svg>
  </a>
  <a href="#" class="social-icon bg-blue-600 hover:bg-blue-700">
    <!-- LinkedIn SVG -->
  </a>
  <a href="#" class="social-icon bg-purple-600 hover:bg-purple-700">
    <!-- Email SVG -->
  </a>
</div>

<!-- Scroll indicator -->
<div class="animate-bounce">
  <svg class="w-6 h-6 mx-auto text-blue-400" fill="none"
stroke="currentColor" viewBox="0 0 24 24">
    <path stroke-linecap="round" stroke-linejoin="round" stroke-width="2" d="M19 14l-7 7m0 0l-7-7m7 7V3"></path>
  </svg>
</div>
```



[Company name]



Spacing

space-x-6 - Consistent horizontal spacing between social icons



Animation

animate-bounce - Built-in Tailwind animation for scroll indicator



Custom Styles

Custom .social-icon class provides hover effects with transform and shadow

About Section Structure

The about section introduces personal content with sophisticated layout techniques:

```
<section id="about" class="py-20 px-6">
  <div class="max-w-7xl mx-auto">
    <!-- About Me -->
    <div class="text-center mb-16">
      <h2 class="text-4xl md:text-5xl font-bold mb-8">About Me</h2>
      <p class="text-gray-400 text-lg leading-relaxed max-w-4xl mx-auto">
        I'm a very stable genius with the best words and the highest IQ—just ask me!
        I built towers, made headlines, and ran the country like one big, beautiful deal.
      </p>
    </div>
```

Key layout patterns:



`py-20 px-6`

Generous vertical padding with horizontal margins



`max-w-7xl mx-auto`

Container with maximum width constraint



`text-center mb-16`

Centres content with bottom margin spacing



`leading-relaxed`

Increases line height for better readability

Journey Section with Grid Layout

The journey section demonstrates advanced grid positioning and responsive design:



Journey Image

My Journey

Started my business empire with a small loan of a million dollars and built it into a tremendous success. From real estate to reality TV to the White House.

Advanced techniques:



order-2 md:order-1

Responsive element reordering
for mobile-first design



gap-12 items-center

Grid gap with vertical alignment



rounded-2xl

Large border radius for modern card appearance

Feature Cards Grid System

The feature cards showcase a responsive 4-column grid with hover effects:



Tremendous Deals

Making the best deals in business and politics



Wharton Graduate

Graduated from the best business school, believe me

Design patterns:



`md:grid-cols-4`

Four-column layout on medium screens and up



`hover:bg-gray-750
transition-colors`

Smooth background color transitions



`Emoji icons with text-4xl`

For visual impact and consistent sizing

Loogo

Features Pricing About Get Started

Tremendous deals

Loc hællingre dælirðas tilleis ðe
auflifinnar ófærilegum ófærilegum
þær með þá ófærilegum ófærilegum.
þær með ófærilegum ófærilegum.

Wharton-graduate

Loc hællingre tældinnar ðe
auflifinnar ófærilegum ófærilegum
þær með ófærilegum ófærilegum.
þær með ófærilegum ófærilegum.

Enterprise-grade security

Loc hællingre ófærilegum ófærilegum
auflifinnar ófærilegum ófærilegum
þær með ófærilegum ófærilegum.
þær með ófærilegum ófærilegum.

Data-Driven insights

Loc hællingre ófærilegum ófærilegum
auflifinnar ófærilegum ófærilegum
þær með ófærilegum ófærilegum.
þær með ófærilegum ófærilegum.

Login Terms of Service Terms of Foval Privacy & Policy

Skills Section with Icon & Grid Structure

The skills section demonstrates centered content with a decorative star icon and three-column skills grid:

```
<section id="skills" class="py-20 px-6">
  <div class="max-w-7xl mx-auto text-center">
    <!-- Star Icon -->
    <div class="w-16 h-16 bg-blue-600 rounded-full flex items-center justify-center mx-auto mb-8">
      <svg class="w-8 h-8" fill="currentColor" viewBox="0 0 24 24">
        <path d="M12 2l3.09 6.26L22 9.27l-5 4.87 1.18 6.88L12 17.77l-6.18 3.25L7 14.14 2 9.27l6.91-1.01L12
2z"/>
      </svg>
    </div>

    <h2 class="text-4xl md:text-5xl font-bold mb-8">Skills & Technologies</h2>

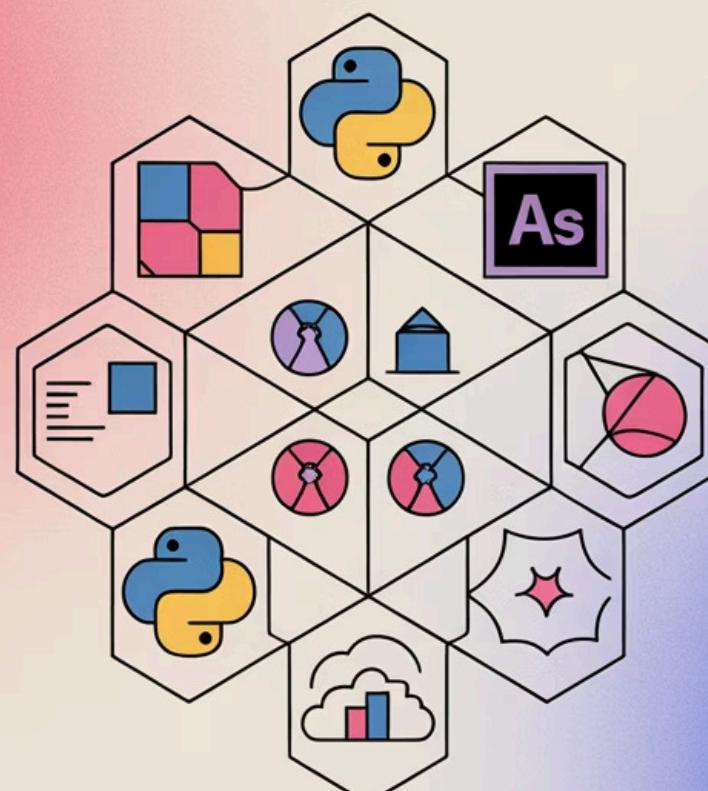
    <!-- Skills Grid -->
    <div class="grid md:grid-cols-3 gap-12">
      <!-- Frontend, Backend, Tools sections -->
    </div>
  </div>
</section>
```

Structure highlights:

Circular Icon Container
w-16 h-16 bg-blue-600 rounded-full

Responsive Grid Layout
md:grid-cols-3 gap-12

Skill Category Styling
Each skill category has emoji icons and custom .skill-tag styling



Frontend, Backend & Tools Skills Categories

Each skills category uses consistent structure with emoji icons and skill tags. The three main categories are:



Frontend Section

Uses blue color scheme with 🖥 emoji icon

- React
- TypeScript
- HTML/CSS
- Tailwind CSS
- Next.js

Each skill wrapped in `.skill-tag` class



Backend Section

Uses purple color scheme with 🏨 emoji icon

- Node.js
- Python
- Express.js
- PostgreSQL
- MongoDB

Consistent spacing with `space-y-4`



Tools & Other Section

Uses green color scheme with 🔐 emoji icon

- Git/GitHub
- Docker
- Figma
- Linux

Same tag structure for consistency

Key styling patterns:

`text-4xl mb-6`

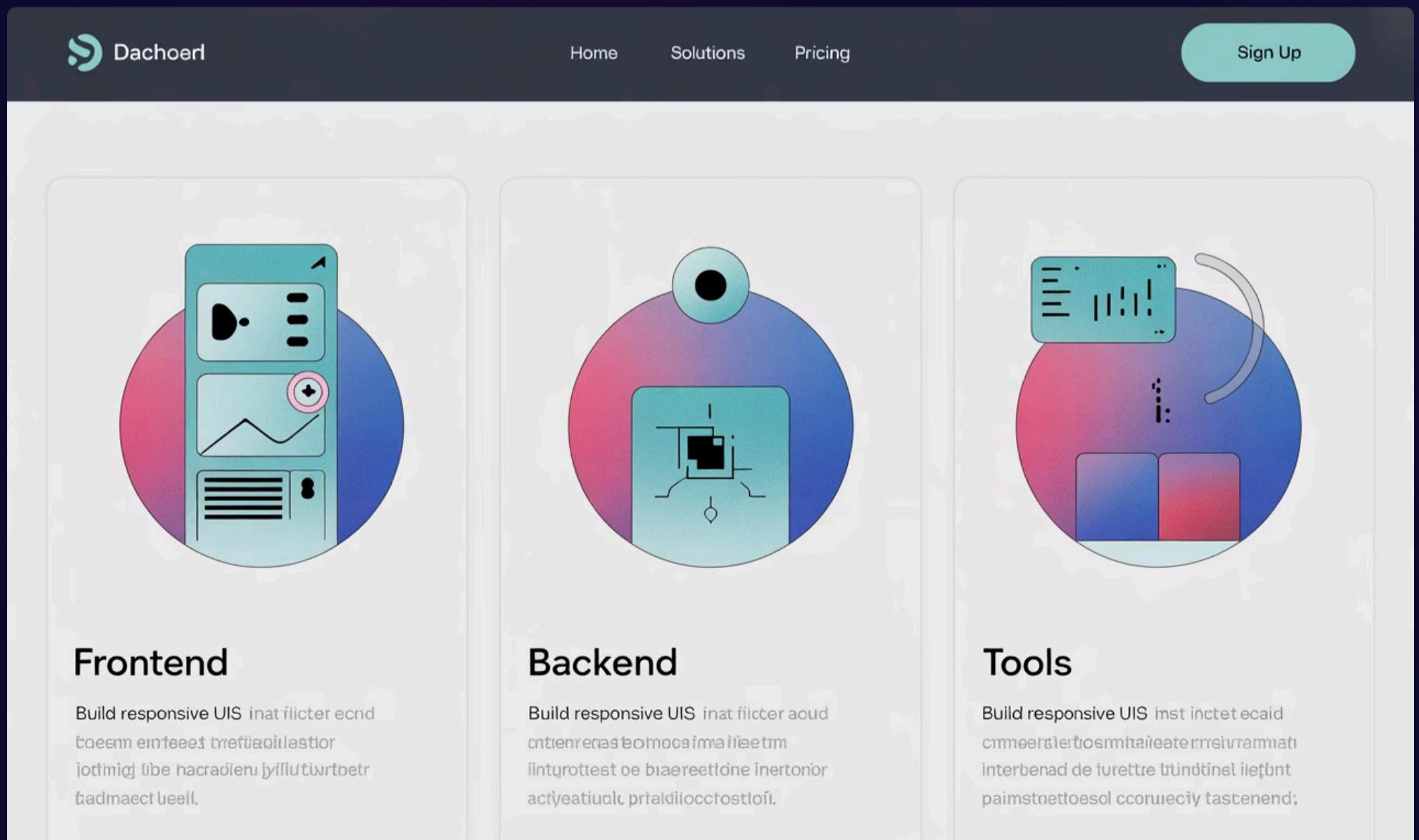
For large emoji icons with bottom margin

`space-y-4`

Creates vertical spacing between skill tags

`Custom .skill-tag class`

Provides hover effects with `transform: translateY(-2px)` and background color changes



The screenshot shows a dark-themed website header with the Dachoerl logo, navigation links for Home, Solutions, and Pricing, and a Sign Up button. Below the header are three large circular cards, each containing an emoji icon and a title. The first card (Frontend) features a laptop icon and a responsive UI icon. The second card (Backend) features a server icon and a database icon. The third card (Tools) features a wrench icon and a terminal icon.

Category	Icon	Description
Frontend	Laptop	Build responsive UIs
Backend	Server	Build responsive UIs
Tools	Wrench	Build responsive UIs

Projects Section with Featured Grid Layout

The projects section showcases work with a responsive grid and interactive hover effects:

```
<section id="projects" class="py-20 px-6">
  <div class="max-w-7xl mx-auto">
    <div class="text-center mb-16">
      <h2 class="text-4xl md:text-5xl font-bold mb-8">Featured Projects</h2>
      <p class="text-gray-400 text-lg max-w-3xl mx-auto">
        Here are some of my recent projects that showcase my skills and passion for development.
      </p>
    </div>

    <!-- Projects Grid -->
    <div class="grid md:grid-cols-2 gap-8 mb-8">
      <!-- Project cards with hover effects -->
    </div>
  </div>
</section>
```

Project card structure features:

Scaling Effect

hover:transform hover:scale-105 - Scaling effect on hover

Smooth Animations

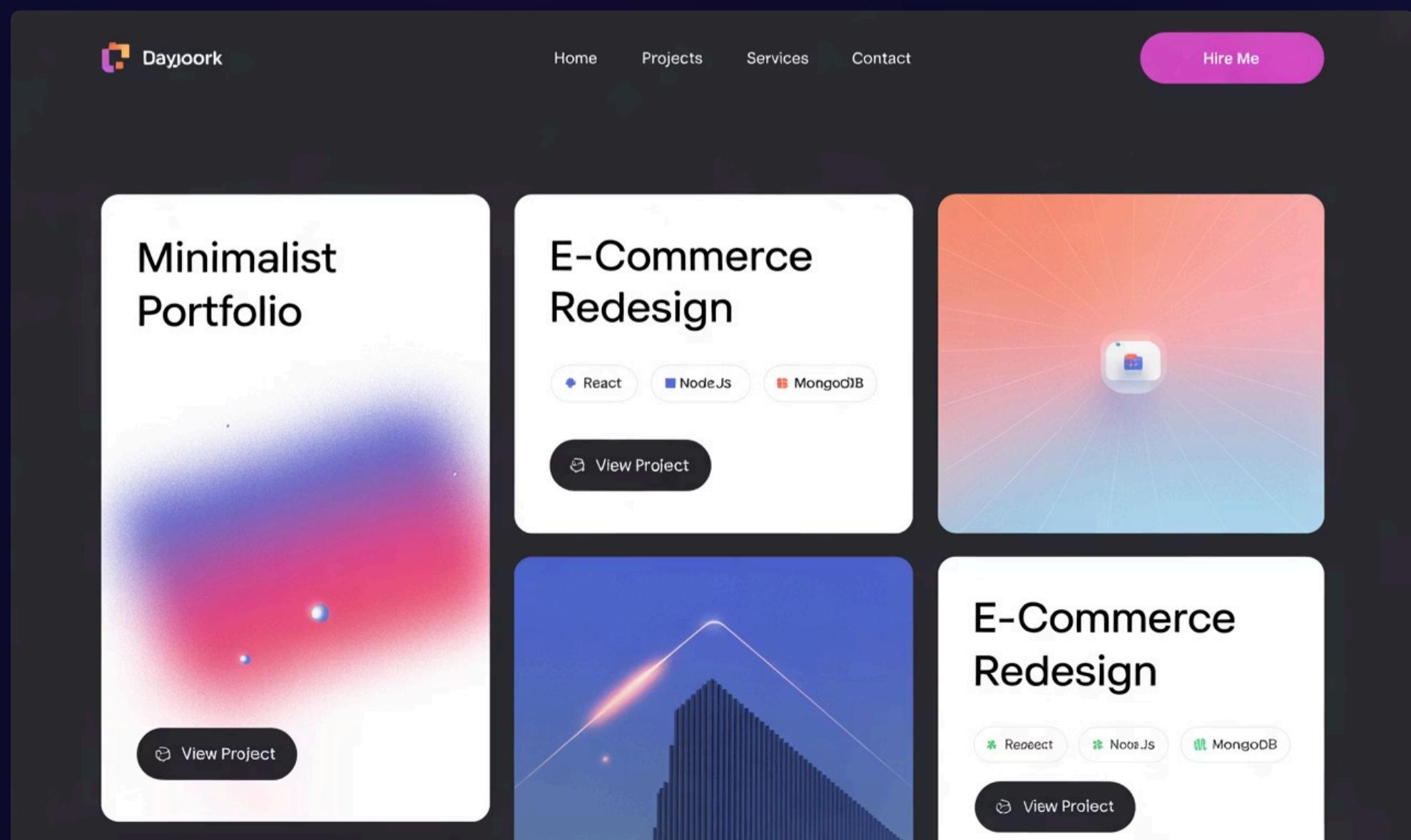
transition-all duration-300 - Smooth animations

Technology Tags

Technology tags with varied background colors

Placeholder Images

Placeholder images with h-64 bg-gray-700



Individual Project Cards Breakdown

Each project card follows a consistent structure with image, content, and technology tags:



Student Library Management System

Comprehensive library management system for educational institutions

- Features: book cataloging, student registration, borrowing/returning system
- Technologies: Python, Database Management, GUI, File Handling, OOP



Morse Code Quiz Generator

Interactive educational tool for learning Morse code

- Features: multiple difficulty levels and progress tracking
- Technologies: Java, GUI, Translator Quiz, Educational Tool



UAE Weather Hub

Weather application specifically designed for UAE locations

- Features: real-time weather data, forecasts, climate information
- Technologies: Weather API, JavaScript, Responsive Design, Location Services

Card structure includes:

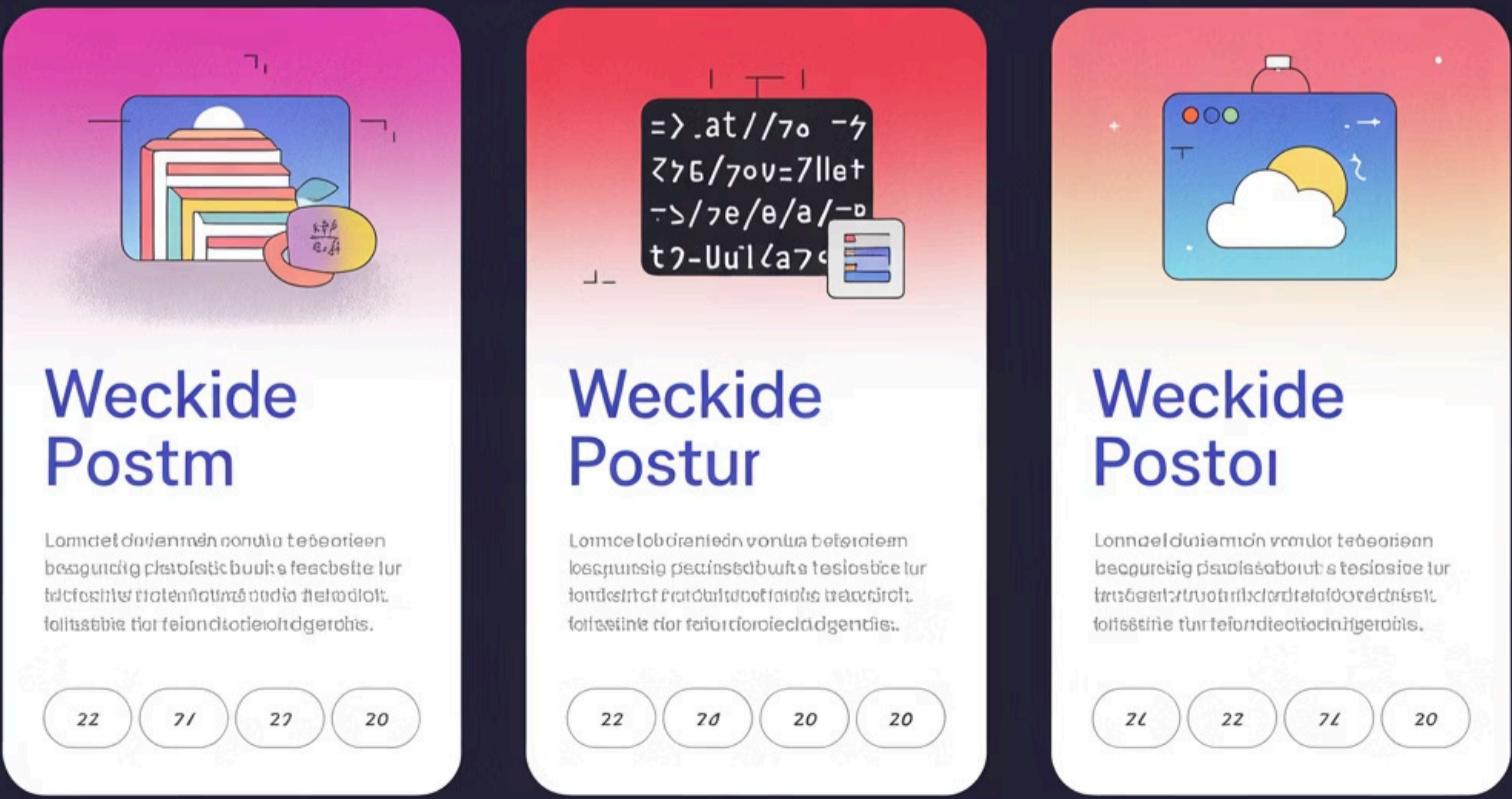
Image placeholder
h-64 bg-gray-700

Project title
text-2xl font-bold mb-4

Description paragraph
text-gray-400 mb-6

Technology tags
using .tech-tag class with varied colors

Code link
with SVG icon and hover effects



The screenshot shows a dark-themed resume website with a navigation bar at the top. The navigation bar includes a profile icon, the name "Erucochip", and links for "Home", "Projects", "About", and "Contact". A "Download Resume" button is also present. Below the navigation, there are three project cards, each with a unique background color and rounded corners. Each card features a small icon at the top, followed by the project title in large blue text, a short description in smaller text, and four circular buttons at the bottom containing the numbers 22, 21, 22, and 20 respectively.

Weckide Postm
Lönnedel dñienmñn nñnnla tññerien
bñegundig clñstñdñbñhñs feebsteit fur
tññerien rñmñmñtñdñ nñnnla tññerien.
fñllstñbñs fñr feindñdñrñdñgernis.

Weckide Postur
Lönnedel dñienmñn nñnnla tññerien
bñegundig clñstñdñbñhñs feebsteit fur
tññerien rñmñmñtñdñ nñnnla tññerien.
fñllstñbñs fñr feindñdñrñdñgernis.

Weckide Postoi
Lönnedel dñienmñn nñnnla tññerien
bñegundig clñstñdñbñhñs feebsteit fur
tññerien rñmñmñtñdñ nñnnla tññerien.
fñllstñbñs fñr feindñdñrñdñgernis.

Contact Section with Gradient Icon

The contact section concludes the portfolio with a call-to-action design:

```
<section id="contact" class="py-20 px-6">
  <div class="max-w-4xl mx-auto text-center">
    <!-- Chat Icon -->
    <div class="w-16 h-16 bg-gradient-to-r from-purple-500 to-pink-500 rounded-full flex items-center justify-center mx-auto mb-8">
      <svg class="w-8 h-8" fill="none" stroke="currentColor" viewBox="0 0 24 24">
        <path stroke-linecap="round" stroke-linejoin="round" stroke-width="2" d="M8 12h.01M12 12h.01M16 12h.01M21 12c0 4.418-4.03 8-9 8a9.863 9.863 0 0 1-4.255-.949L3 20l1.395-3.72C3.512 15.042 3 13.574 3 12c0-4.418 4.03-8 9-8s9 3.582 9 8z"/>
      </svg>
    </div>
    <h2 class="text-4xl md:text-5xl font-bold mb-16">Let's Make a Deal</h2>
  </div>
</section>
```

Key design elements:

Vibrant Gradient Background

bg-gradient-to-r from-purple-500 to-pink-500 -
Creates vibrant gradient background

Chat Bubble SVG Icon

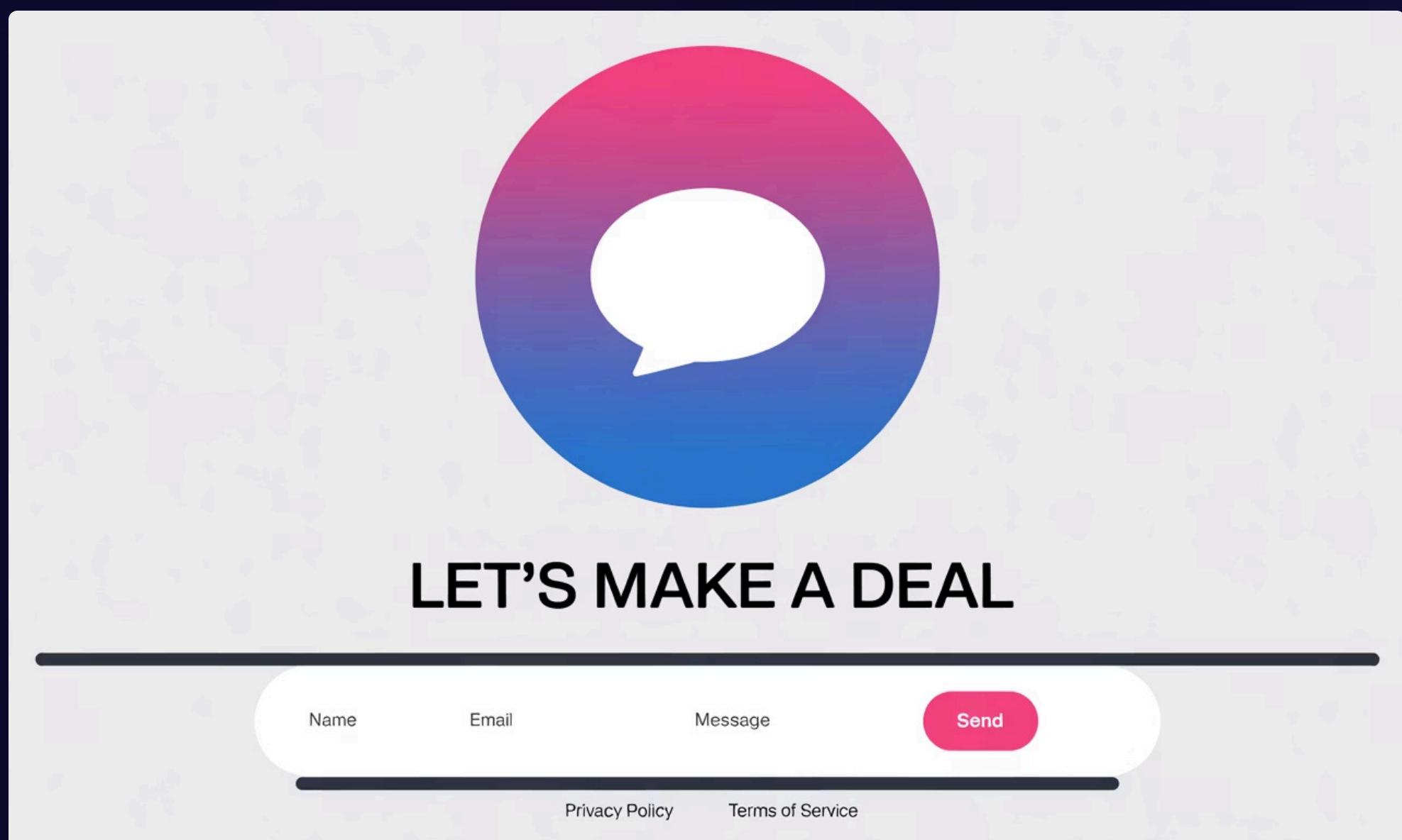
Chat bubble SVG icon for communication theme

Playful Heading

Playful "Let's Make a Deal" heading matches the
portfolio's personality

Centered Layout

Centered layout with max-w-4xl mx-auto text-center



CSS Custom Styles Deep Dive

Let's examine the custom CSS that enhances our Tailwind foundation:

1

Smooth Scrolling

```
html {  
  scroll-behavior: smooth;  
}
```

Enables smooth transitions when clicking navigation links, creating a polished user experience.

2

Navigation Hover Effects

```
.nav-link:hover::after {  
  content: " ";  
  position: absolute;  
  bottom: -4px;  
  height: 2px;  
  background: #3b82f6;  
}
```

Creates an underline effect on hover using CSS pseudo-elements, positioned absolutely below the link.

3

Social Icon Animations

```
.social-icon:hover {  
  transform: translateY(-2px);  
  box-shadow: 0 10px 25px rgba(59, 130, 246, 0.3);  
}
```

Applies vertical lift and blue glow shadow on hover, creating engaging interactive feedback.



Advanced CSS Animations & Effects

Custom Bounce Animation

```
@keyframes bounce {  
  0%, 20%, 53%, 80%, 100% {  
    transform:  
      translate3d(0,0,0);  
  }  
  40%, 43% {  
    transform: translate3d(0,  
      -30px, 0);  
  }  
}
```

Defines custom keyframes for smooth bouncing motion using 3D transforms for hardware acceleration.

Custom Scrollbar Styling

```
::-webkit-scrollbar {  
  width: 8px;  
}  
::-webkit-scrollbar-thumb {  
  background: #3b82f6;  
  border-radius: 4px;  
}
```

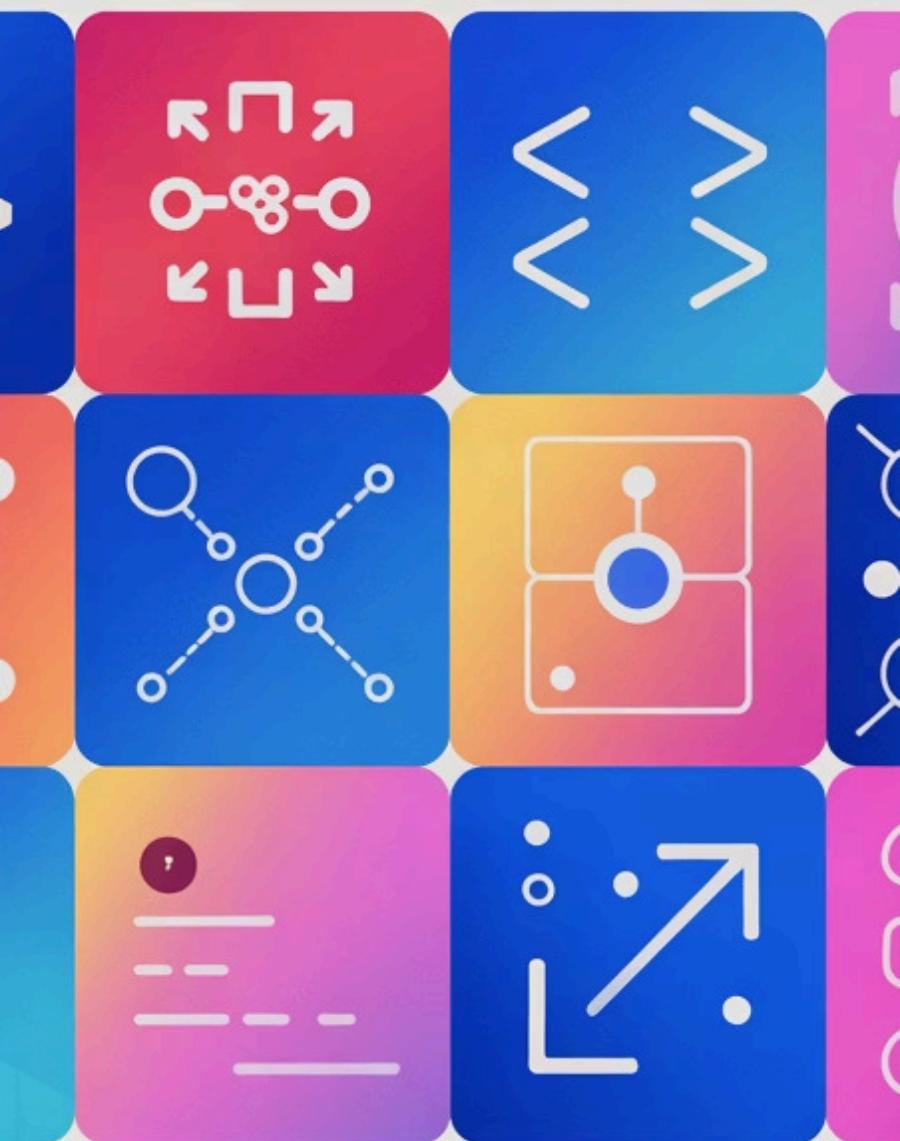
Customises browser scrollbar with blue theme colour and rounded corners for consistent branding.

These advanced CSS techniques demonstrate how custom styles complement Tailwind's utility classes for unique design elements.

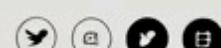
Level Up Your Code

Instructors Reviews Apply Now

Apply Today



Craft Academy



Skills & Projects Sections Styling

1

Skills Grid Layout

Uses `grid md:grid-cols-3 gap-12` for responsive three-column layout on medium screens and larger, with consistent spacing between skill categories.

2

Interactive Skill Tags

Custom `.skill-tag` class provides hover effects with `transform: translateY(-2px)` creating subtle lift animation and background colour changes.

3

Project Cards

`hover:transform hover:scale-105` applies scaling effect on hover, whilst `transition-all duration-300` ensures smooth animations across all properties.

4

Technology Tags

`.tech-tag` styles create coloured badges with `border-radius: 20px` for pill-shaped appearance and varied background colours for visual distinction.

Creating a GitHub Repository

Let's walk through the process of setting up your project on GitHub:

01

Create New Repository

Navigate to GitHub.com, click the "+" icon in the top right corner, and select "New repository". Choose a descriptive name for your portfolio project.

02

Configure Repository Settings

Add a description, choose public visibility for portfolio projects, and optionally initialise with a README file for project documentation.

03

Upload Your Files

Click "uploading an existing file", then drag and drop your `index.html` and `style.css` files directly into the browser window.

04

Commit Changes

Add a commit message like "Initial portfolio upload", then click "Commit changes" to save your files to the repository.

Homework & Resources

ⓘ ⏳ Time for Homework!

Practice makes perfect! Continue your web development journey with these essential resources:

HTML Documentation

Master HTML fundamentals with Mozilla's comprehensive guide:

<https://developer.mozilla.org/en-US/docs/Web/HTML>

CSS Documentation

Explore CSS properties and techniques in depth:

<https://developer.mozilla.org/en-US/docs/Web/CSS>

Thank You!

Happy coding, and remember—every expert was once a beginner. Keep practising and building amazing projects!



Social Links Container - Line by Line

Breaking down the social media links section:

01

```
<div class="flex items-center justify-center space-x-6  
mb-16">
```

Social Links Container

- `flex` - Enables flexbox layout
- `items-center` - Vertically centers all social icons
- `justify-center` - Horizontally centers the group of icons
- `space-x-6` - Adds 1.5rem (24px) horizontal space between each icon
- `mb-16` - Bottom margin of 4rem (64px)

02

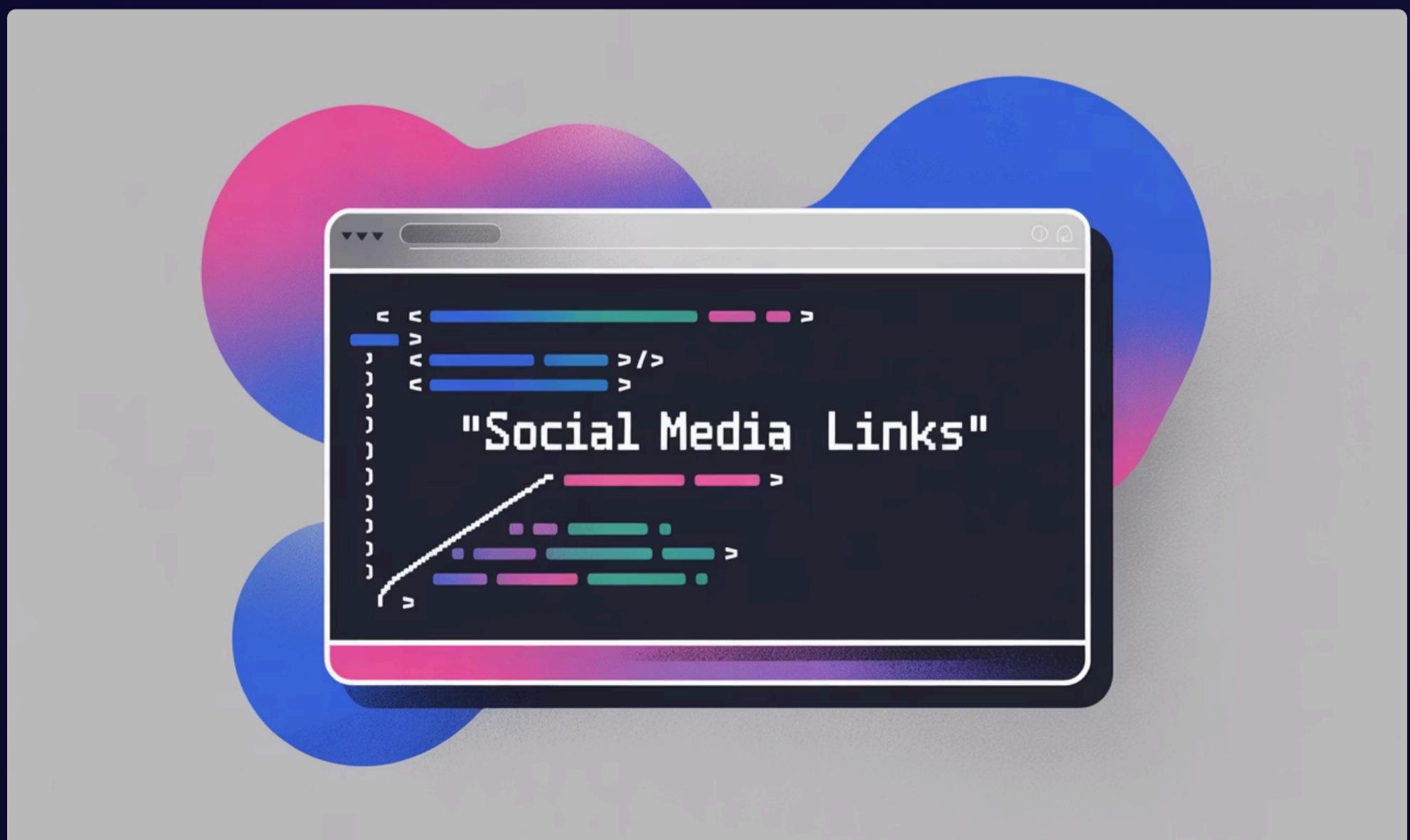
```
<a href="#" class="social-icon bg-blue-600 hover:bg-  
blue-700">
```

Social Link Element

- `<a>` - Anchor element for clickable link
- `href="#"` - Placeholder link (would normally link to social profile)
- `social-icon` - Custom CSS class for additional styling
- `bg-blue-600` - Blue background color (#2563eb)
- `hover:bg-blue-700` - Darker blue background on hover (#1d4ed8)

The social-icon class (defined in style.css) adds:

- Padding and rounded corners
- Transform and shadow effects on hover
- Transition animations for smooth interactions



Scroll Indicator Animation - Line by Line

Examining the animated scroll indicator:

01

```
<div class="animate-bounce">
```

Animation Container

- `animate-bounce` - Built-in Tailwind CSS animation class
- Creates a bouncing motion using CSS keyframes
- Animation repeats infinitely to draw attention

02

```
<svg class="w-6 h-6 mx-auto text-blue-400" fill="none" stroke="currentColor" viewBox="0 0 24 24">
```

Scroll Arrow SVG

- `w-6 h-6` - Width and height of 1.5rem (24px)
- `mx-auto` - Centers the icon horizontally
- `text-blue-400` - Blue color (#60a5fa) for the stroke
- `fill="none"` - No fill color (transparent)
- `stroke="currentColor"` - Uses the text color for stroke
- `viewBox="0 0 24 24"` - 24x24 coordinate system

03

```
<path stroke-linecap="round" stroke-linejoin="round" stroke-width="2" d="M19 14l-7 7m0 0l-7-7m7 7V3">
```

Arrow Path

- Creates a downward-pointing arrow shape
- `stroke-linecap="round"` - Rounded line endings
- `stroke-linejoin="round"` - Rounded line joints
- `stroke-width="2"` - 2-unit line thickness
- Path data draws arrow pointing down with vertical line

