

Tailwind CSS basics guide for beginners, explained in the easiest way with examples you can use immediately.

Perfect if you're just starting with Tailwind.

□ What is Tailwind CSS?

Tailwind is a **utility-first CSS framework**.

Instead of writing CSS, you use small classes directly in your HTML to style elements.

Example:

```
<div class="text-center bg-blue-500 text-white p-4 rounded">  
Hello Tailwind  
</div>
```

No custom CSS required!

□ 1. How to Add Tailwind (Easiest: CDN)

Just paste this inside your `<head>`:

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

Now you can use Tailwind classes inside your HTML.

□ 2. Common Tailwind Utility Classes

Tailwind uses **small, powerful classes**.

Here are the most common categories:

□ 2.1 Text & Font Classes

Purpose	Class	Example
Font size	text-sm, text-xl, text-4xl	<code><p class="text-xl">Hello</p></code>
Bold	font-bold	
Color	text-red-600	
Alignment	text-center	

Example:

```
<h1 class="text-3xl font-bold text-center text-blue-600">Welcome</h1>
```

□ 2.2 Background Colors

```
<div class="bg-red-500 text-white p-4">Red Box</div>
```

□ 2.3 Spacing (Margin + Padding)

Class **Meaning**

p-4 padding 1rem

px-4 horizontal padding

py-2 vertical padding

m-4 margin

Example:

```
<div class="p-6 m-4 bg-gray-200">Spaced Box</div>
```

□ 2.4 Borders & Rounded Corners

```
<div class="border border-gray-400 p-4 rounded-lg">Box</div>
```

□ 2.5 Flexbox Basics

Turn on flexbox:

```
<div class="flex">
```

Align horizontally:

```
<div class="flex justify-center">Centered</div>
```

Align both axis:

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

Example:

```
<div class="flex items-center justify-center h-40 bg-blue-100">  
  <p class="text-xl">Centered Box</p>  
</div>
```

□ 2.6 Grid Basics

Enable grid:

```
<div class="grid grid-cols-3 gap-4">
```

Example:

```
<div class="grid grid-cols-3 gap-4">  
  <div class="bg-blue-200 p-4">1</div>  
  <div class="bg-blue-200 p-4">2</div>
```

```
<div class="bg-blue-200 p-4">3</div>
</div>
```

□ 2.7 Hover Effects

```
<button class="bg-blue-500 text-white px-4 py-2 rounded hover:bg-blue-600">
  Hover Me
</button>
```

□ 2.8 Shadows

```
<div class="shadow-lg p-6 bg-white rounded">Card</div>
```

□ 3. Beginner-Friendly Example Page

Copy this into an `index.html` file:

```
<!DOCTYPE html>
<html lang="en">
<head>
  <script src="https://cdn.tailwindcss.com"></script>
</head>
<body class="p-10 bg-gray-100">

  <h1 class="text-3xl font-bold text-center mb-6">Tailwind Basics</h1>

  <div class="bg-white p-6 rounded-lg shadow">
    <h2 class="text-xl font-semibold mb-4">Hello, Tailwind!</h2>

    <p class="mb-4">
      This is a simple example showing Tailwind CSS utilities.
    </p>

    <button class="bg-blue-600 text-white px-4 py-2 rounded hover:bg-blue-700">
      Button
    </button>
  </div>

</body>
</html>
```

Tailwind CSS Grid Basics

Tailwind provides utility classes that map directly to CSS Grid properties. You combine these classes to build flexible, responsive layouts without writing custom CSS.

□ 1. Creating a Basic Grid

Grid container

```
<div class="grid grid-cols-3 gap-4">
  <div class="bg-blue-200 p-4">1</div>
  <div class="bg-blue-200 p-4">2</div>
  <div class="bg-blue-200 p-4">3</div>
</div>
```

What it does:

- `grid` → enables CSS Grid
 - `grid-cols-3` → 3 equal-width columns
 - `gap-4` → 1rem gap between items
-

□ 2. Responsive Grid Columns

Tailwind makes responsive layouts easy using breakpoint prefixes:

```
<div class="grid grid-cols-1 sm:grid-cols-2 lg:grid-cols-4 gap-4">
  <div class="bg-green-200 p-4">Item</div>
  <div class="bg-green-200 p-4">Item</div>
  <div class="bg-green-200 p-4">Item</div>
  <div class="bg-green-200 p-4">Item</div>
</div>
```

Behavior:

- 1 column on mobile
 - 2 columns on small screens
 - 4 columns on large screens
-

□ 3. Setting Column Widths (fractions & fixed)

Fractional columns:

```
<div class="grid grid-cols-4 gap-4">
  <div class="col-span-2 bg-yellow-300 p-4">Span 2</div>
  <div class="col-span-1 bg-yellow-300 p-4">Span 1</div>
  <div class="col-span-1 bg-yellow-300 p-4">Span 1</div>
</div>
```

Fixed-width columns:

```
<div class="grid grid-cols-[200px_1fr_2fr] gap-4">
  <div class="bg-purple-200 p-4">200px</div>
  <div class="bg-purple-200 p-4">1fr</div>
  <div class="bg-purple-200 p-4">2fr</div>
</div>
```

□ 4. Auto-fit & Auto-fill (dynamic grids)

Auto-fit (items stretch to fill space)

```
<div class="grid grid-cols-[repeat(auto-fit,minmax(150px,1fr))] gap-4">
  <div class="bg-red-200 p-4">Item</div>
  <div class="bg-red-200 p-4">Item</div>
  <div class="bg-red-200 p-4">Item</div>
</div>
```

This creates flexible, responsive cards.

□ 5. Grid Rows

```
<div class="grid grid-rows-3 gap-4 h-64">  
  <div class="bg-teal-200 p-4">Row 1</div>  
  <div class="bg-teal-200 p-4">Row 2</div>  
  <div class="bg-teal-200 p-4">Row 3</div>  
</div>
```

You can also span rows:

```
<div class="grid grid-cols-3 grid-rows-3 gap-4 h-64">  
  <div class="row-span-3 bg-teal-200 p-4">Tall</div>  
  <div class="bg-teal-200 p-4">A</div>  
  <div class="bg-teal-200 p-4">B</div>  
  <div class="bg-teal-200 p-4">C</div>  
  <div class="bg-teal-200 p-4">D</div>  
</div>
```

□ 6. Alignment Utilities

Tailwind provides grid alignment helpers:

Class	Meaning
<code>items-start / items-center / items-end</code>	Align items vertically
<code>justify-start / justify-center / justify-end</code>	Align items horizontally
<code>place-items-center</code>	Align both axis
<code>content-between, content-around, etc.</code>	Align grid tracks

Example:

```
<div class="grid place-items-center h-48 bg-gray-100">  
  <div class="bg-indigo-300 p-4">Centered</div>  
</div>
```

□ 7. Gap vs. Row/Column Gap

```
<div class="grid grid-cols-3 gap-x-8 gap-y-2">
  <div class="bg-pink-200 p-4">1</div>
  <div class="bg-pink-200 p-4">2</div>
  <div class="bg-pink-200 p-4">3</div>
  <div class="bg-pink-200 p-4">4</div>
</div>
```

- `gap-x-8` → larger horizontal spacing
 - `gap-y-2` → smaller vertical spacing
-

□ 8. Card Layout Example

```
<div class="grid grid-cols-1 sm:grid-cols-2 md:grid-cols-3 lg:grid-cols-4
gap-6 p-6">
  <div class="bg-white shadow rounded-xl p-4">Card</div>
  <div class="bg-white shadow rounded-xl p-4">Card</div>
  <div class="bg-white shadow rounded-xl p-4">Card</div>
  <div class="bg-white shadow rounded-xl p-4">Card</div>
</div>
```

This is a common real-world pattern (product grid, blog grid, etc.).

□ Want something more?

I can provide:

- Full mini-project (e.g., gallery, dashboard)
- A cheatsheet of all Tailwind grid utilities
- A comparison of flexbox vs grid in Tailwind
- A ready-to-copy template using grid

To use the Tailwind CSS examples I gave, you need to **add Tailwind into your HTML file**. Here are **three simple ways**, starting with the easiest.

□ 1. Easiest Method — Use Tailwind CDN (no installation)

Just paste this inside your <head>:

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

✓ **Works instantly**

✓ **Perfect for practice, prototypes, small projects**