

Tailwind:

Things to know in frontend framework

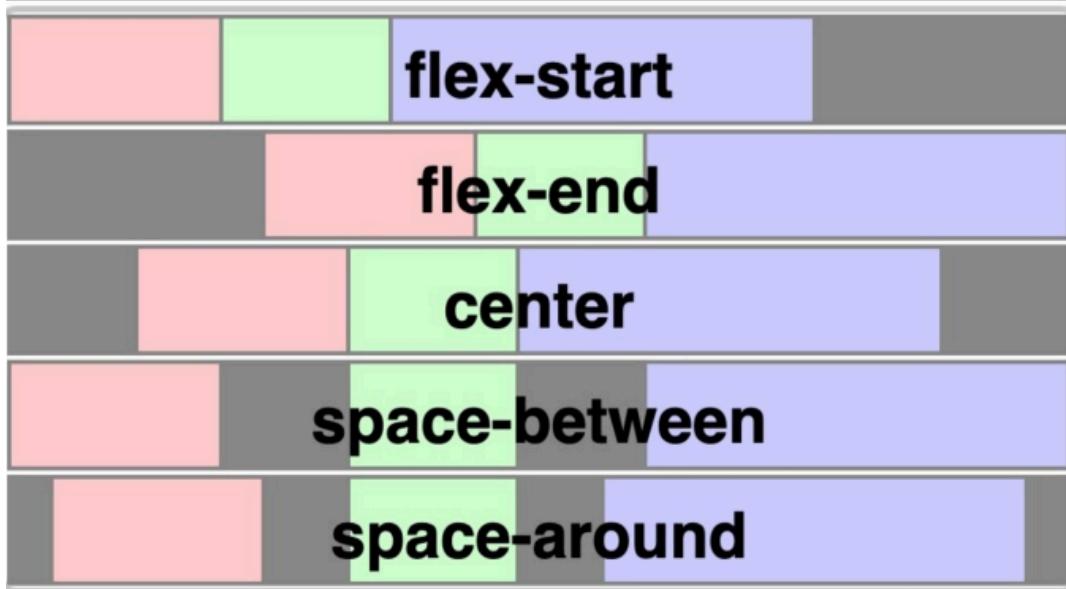
1. Flex
2. Grids
3. Responsiveness
4. Background color, text color, hover,

Flex

```
1 export default function Test() {
2   return <div style={{display: "flex"}}>
3     <div>
4       <div style={{background: "green"}}>
5         | Hi there from the first div
6       </div>
7       <div style={{background: "red"}}>
8         | Hi there from the second div
9       </div>
10      <div style={{background: "pink"}}>
11        | Hi there from the third
12      </div>
13    </div>
14  </div>
15}
16
17}
```

Placing div element next to each other is one of the common practice.

```
1 export default function Test() {
2   return <div style={{display: "flex", justifyContent: "space-between"}}>
3     <div style={{background: "green"}}>
4       | Hi there from the first div
5     </div>
6     <div style={{background: "red"}}>
7       | Hi there from the second div
8     </div>
9     <div style={{background: "pink"}}>
10       | Hi there from the third
11     </div>
12   </div>
13}
```

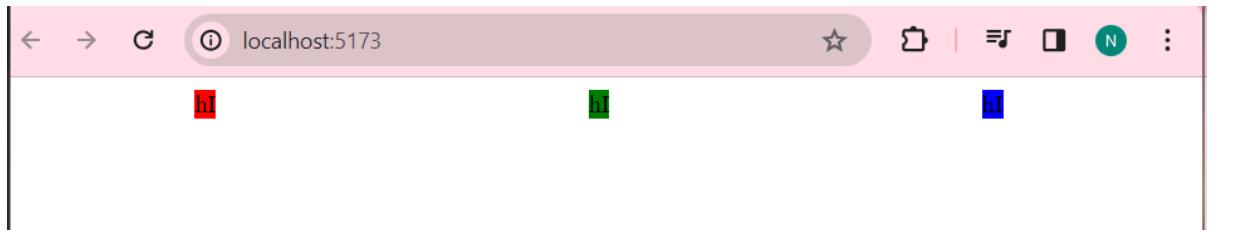


```
import './App.css'

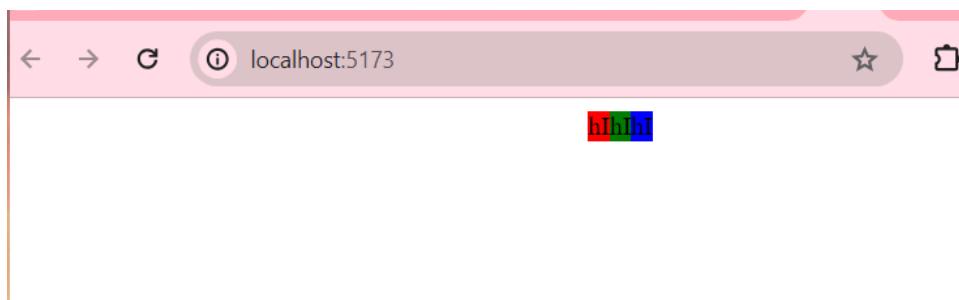
function App() {
  return (
    <>
      <div style={{display:"flex"}}>
        <div style={{backgroundColor:"red"}>hI</div>
        <div style={{backgroundColor:"green"}>hI</div>
        <div style={{backgroundColor:"blue"}>hI</div>
      </div>
    </>
  )
}

export default App
```

```
<div style={{display:"flex",justifyContent:"space-around"}>
  <div style={{backgroundColor:"red"}>hI</div>
  <div style={{backgroundColor:"green"}>hI</div>
  <div style={{backgroundColor:"blue"}>hI</div>
</div>
```



```
<div style={{display:"flex",justifyContent:"center"}}>
  <div style={{backgroundColor:"red"}}>h1</div>
  <div style={{backgroundColor:"green"}}>h1</div>
  <div style={{backgroundColor:"blue"}}>h1</div>
</div>
```



Tailwind:

Follow website guidelines for setup.

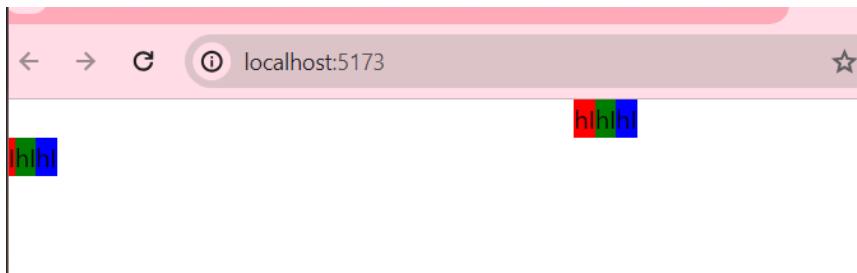
```
content: [
  "./index.html",
  "./src/**/*.{js,ts,jsx,tsx}",
],
```

tailwind.config.js file these above code tell us , that anyfile with these extension look whether the tailwind css is being used or not.

Now we will convert the above css code into tailwind by finding its equivalent in docs.

```
<div className='flex'>
  <div style={{backgroundColor:"red"}}>h1</div>
```

```
<div style={{backgroundColor:"green"}}>hi</div>
<div style={{backgroundColor:"blue"}}>hi</div>
</div>
```



```
<div className='flex justify-center'>
  <div className='bg-red-500'>hi</div>
  <div className='bg-green-500'>hi</div>
  <div className='bg-blue-500'>hi</div>
</div>
```



It may get verbose or very long but this is how its done.

Grids in tailwind

To make website responsive as we change width it keep on changing how many element should be in a single line as we change the width

It is easy if we want to make of equal width we can do even with flex:

```

app > src > pages > TS test.tsx > Test
1
2   export default function Test() {
3     return <div className="flex justify-between">
4       <div style={{background: "green"}}>
5         | Hi there from the first div
6       </div>
7       <div style={{background: "red"}}>
8         | Hi there from the second div
9       </div>
10      <div style={{background: "pink"}}>
11        | Hi there from the third
12      </div>
13    </div>
14  }

```

Now lets see with the grids

Equal widths

```

my-app > src > pages > TS test.tsx > ...
1
2   export default function Test() {
3     return <div className="grid grid-cols-3">
4       <div style={{background: "green"}}>
5         | Hi there from the first div
6       </div>
7       <div style={{background: "red"}}>
8         | Hi there from the second div
9       </div>
10      <div style={{background: "pink"}}>
11        | Hi there from the third
12      </div>
13    </div>
14  }

```

```

<div className='grid grid-cols-4'>
  <div className='bg-red-500'>hi</div>
  <div className='bg-green-500'>hi</div>
  <div className='bg-blue-500'>hi</div>
</div>

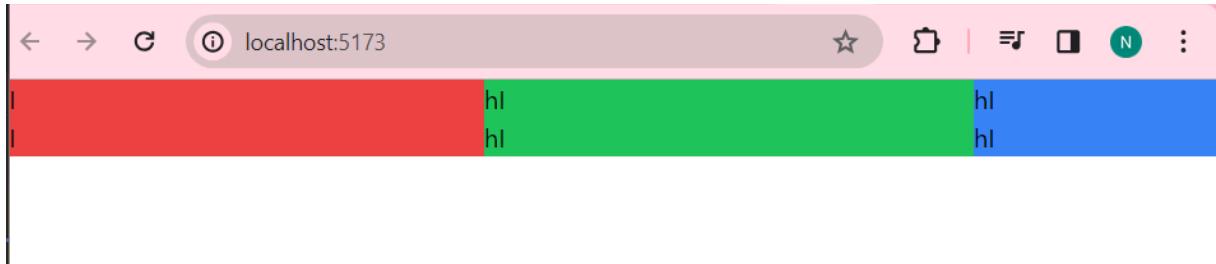
```

Dividing into such parts and then first div will expand to y parts

```

<div className='grid grid-cols-10'>
  <div className='bg-red-500 col-span-4'>hi</div>
  <div className='bg-green-500 col-span-4'>hi</div>
  <div className='bg-blue-500 col-span-2'>hi</div>
</div>

```



Doing it in with the flex

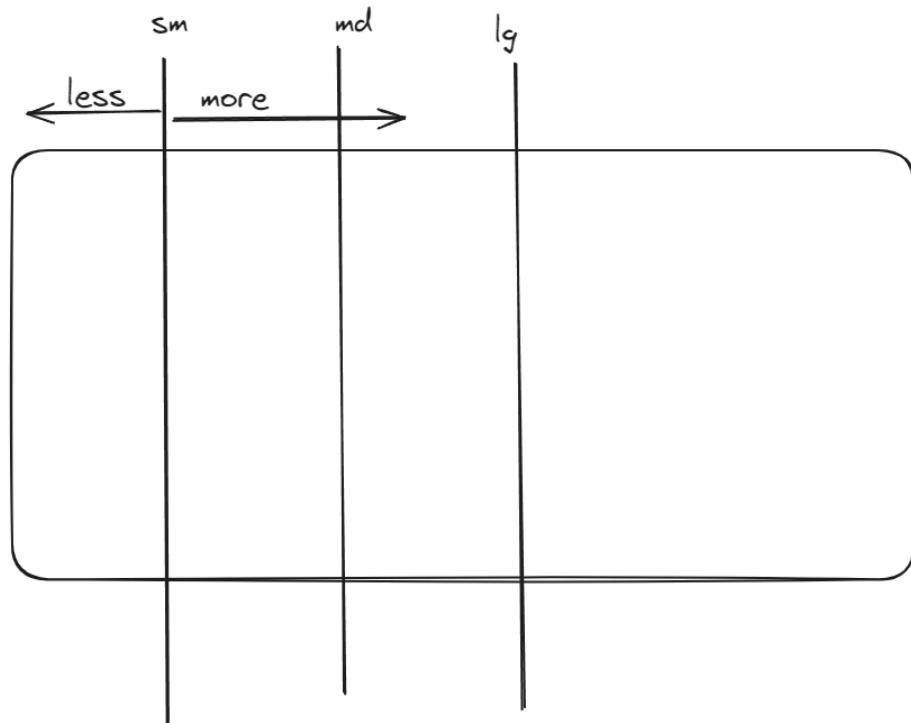
```
<div className='flex'>
  <div className='bg-red-500 w-[40%]'>hl</div>
  <div className='bg-green-500 w-[40%]'>hl</div>
  <div className='bg-blue-500 w-[20%]'>hl</div>
</div>
```

Responsiveness

Common breakpoints in our screen

The screenshot shows a large white title 'Responsiveness' centered on a dark background. Below it is a URL: <https://tailwindcss.com/docs/responsive-design>. At the bottom of the page is a table listing common breakpoints:

Breakpoint prefix	Minimum width	CSS
`sm`	640px	`@media (min-width: 640px) { ... }`
`md`	768px	`@media (min-width: 768px) { ... }`
`lg`	1024px	`@media (min-width: 1024px) { ... }`
`xl`	1280px	`@media (min-width: 1280px) { ... }`
`2xl`	1536px	`@media (min-width: 1536px) { ... }`



Tailwind is Mobile first breakpoint system

Mobile first

Working mobile-first

By default, Tailwind uses a mobile-first breakpoint system, similar to what you might be used to in other frameworks like Bootstrap.

What this means is that unprefixed utilities (like `'uppercase'`) take effect on all screen sizes, while prefixed utilities (like `'md:uppercase'`) only take effect at the specified breakpoint and above.

Targeting mobile screens

Where this approach surprises people most often is that to style something for mobile, you need to use the unprefixed version of a utility, not the `'sm:'` prefixed version. Don't think of `'sm:'` as meaning "on small screens"; think of it as "at the small breakpoint".

 Don't use `sm:` to target mobile devices

```
<!-- This will only center text on screens 640px and wider, not on small screens -->
<div class="sm:text-center"></div>
```

This will center when the screen is wider than 640 px.

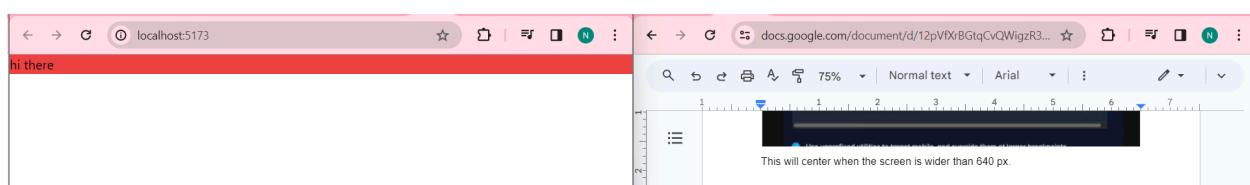
If we want text to be center on mobile we will first use the unprefixed utilities.

Unset

```
<div class="text-center sm:text-left"></div>
```

```
<div className='bg-red-500 md:bg-blue-500'>
  hi there
  /* By default it is red and on the bigger screen it is blue */
</div>
```

By default it is red



On screen which has size above md (768px) div is blue



Three equal children once they go below md they are one below each other.

```
<div className='md:grid md:grid-cols-3'>
  <div className='bg-red-500'>Hi there</div>
  <div className='bg-green-500'>Hi there</div>
  <div className='bg-blue-500'>Hi there</div>
</div>
```



```
<div className='grid grid-cols-1 md:grid-cols-3'>
  <div className='bg-red-500'>Hi there</div>
  <div className='bg-green-500'>Hi there</div>
  <div className='bg-blue-500'>Hi there</div>
</div>
```

Color System

Color system

Tailwind includes an expertly-crafted default color palette out-of-the-box that is a great starting point if you don't have your own specific branding in mind.

State																	
50	#fffafac	#ff1f5f9	#e0e0e0	#d3d3d3	#c8c8c8	#b3b3b3	#a8a8a8	#939393	#808080	#737373	#666666	#535353	#404040	#333333	#202020	#101010	#000000
100																	
200																	
300																	
400																	
500																	
600																	
700																	
800																	
900																	
950																	
Gray																	
50	#fffafb	#efefef	#e0e0e0	#d3d3d3	#c8c8c8	#b3b3b3	#a8a8a8	#939393	#808080	#737373	#666666	#535353	#404040	#333333	#202020	#101010	#000000
100																	
200																	
300																	
400																	
500																	
600																	
700																	
800																	
900																	
950																	
Zinc																	
50	#fffafa	#efefef	#e0e0e0	#d3d3d3	#c8c8c8	#b3b3b3	#a8a8a8	#939393	#808080	#737373	#666666	#535353	#404040	#333333	#202020	#101010	#000000
100																	
200																	
300																	
400																	
500																	
600																	
700																	
800																	
900																	
950																	
Neutral																	
50	#fffafa	#efefef	#e0e0e0	#d3d3d3	#c8c8c8	#b3b3b3	#a8a8a8	#939393	#808080	#737373	#666666	#535353	#404040	#333333	#202020	#101010	#000000
100																	
200																	
300																	
400																	
500																	
600																	
700																	
800																	
900																	
950																	
Stone																	
50	#fffafa	#efefef	#e0e0e0	#d3d3d3	#c8c8c8	#b3b3b3	#a8a8a8	#939393	#808080	#737373	#666666	#535353	#404040	#333333	#202020	#101010	#000000
100																	
200																	
300																	
400																	
500																	
600																	
700																	
800																	
900																	
950																	
Red																	
50	#fffafa	#efefef	#e0e0e0	#d3d3d3	#c8c8c8	#b3b3b3	#a8a8a8	#939393	#808080	#737373	#666666	#535353	#404040	#333333	#202020	#101010	#000000
100																	
200																	
300																	
400																	
500																	
600																	
700																	
800																	
900																	
950																	
Orange																	
50	#fff7ed	#ffddcc	#ffccbc	#ffca28	#ff9800	#ff7f0e	#ff5722	#ff3d26	#ff2121	#ff0000	#ff0000	#ff0000	#ff0000	#ff00			

y-app > src > pages > TS test.tsx > ...

```

1 | export default function Test() {
2 |   return <div className="bg-green-500 text-red-500 text-xs" >
3 |     |   Hi there from the first div
4 |   </div>
5 |
6 }

```

Font Size

Utilities for controlling the font size of an element.

Class	Properties
text-xs	font-size: 0.75rem; /* 12px */ line-height: 1rem; /* 16px */
text-sm	font-size: 0.875rem; /* 14px */ line-height: 1.25rem; /* 20px */
text-base	font-size: 1rem; /* 16px */ line-height: 1.5rem; /* 24px */
text-lg	font-size: 1.125rem; /* 18px */ line-height: 1.75rem; /* 28px */
text-xl	font-size: 1.25rem; /* 20px */ line-height: 1.75rem; /* 28px */
text-2xl	font-size: 1.5rem; /* 24px */ line-height: 1.75rem; /* 28px */

Basic usage

Border radius

BORDER RADII

Class	Properties
rounded	border-end-start-radius: 0.25rem; /* 4px */
rounded-s-md	border-start-start-radius: 0.375rem; /* 6px */ border-end-start-radius: 0.375rem; /* 6px */
rounded-s-lg	border-start-start-radius: 0.5rem; /* 8px */ border-end-start-radius: 0.5rem; /* 8px */
rounded-s-xl	border-start-start-radius: 0.75rem; /* 12px */ border-end-start-radius: 0.75rem; /* 12px */
rounded-s-2xl	border-start-start-radius: 1rem; /* 16px */ border-end-start-radius: 1rem; /* 16px */
rounded-s-3xl	border-start-start-radius: 1.5rem; /* 24px */ border-end-start-radius: 1.5rem; /* 24px */

Basic usage

Rounded corners

Use utilities like 'rounded-sm', 'rounded', or 'rounded-lg' to apply different border radius sizes to an element.

rounded
rounded-s-md
rounded-lg
rounded-full

When taking complete width we will take grid, else flex

Raw tailwind then to get the dark theme we will define like this: dark:
bg-green-500

STORYBOOK : good usage.

Take : 1

App.jsx

```
<div className='grid grid-cols-3'>
  <RevenueCard title={"Amount Pending"} amount={"92,312.20"}
orderCount={13}/>
</div>
```

RevenueCard.jsx

```
// this will assume that we are creating full width card and whoever is
using it will arrange it in grid according to his/her need
export const RevenueCard = ({
  title,
  orderCount,
  amount
}) => {
  return <div className="bg-white rounded shadow-sm">
    <div>
      {title}
      ?
    </div>
    <div className="flex justify-between">
      <div>
        $ {amount}
      </div>
      {orderCount? <div>
        {orderCount} order(s) {">"}
      </div>:null}
    </div>
  </div>
}
```

Amount Pending?
\$ 92,312.20 13 order(s) >

Solution:

For icons we can use **heroicons** in tailwind it give us svg

StoryBook

StoryBook integration make it easy to test whether we have done right css in component

npm install @storybook/builder-vite --save-dev

We will see how we can expose component without rendering them in app.jsx

It is useful when we want to opensource a part of our project.

Whoever make changes can test in StoryBook itself.

, If amount is very big how the UI will appear and how will it look when the amount is less.