

11

Week 41

SATURDAY
Day (284-081)

OCTOBER

S	M	T	W	T	F	S	S	M	T	W	F	S
					01	02	03	04	05	06	07	08
					09	10	11	12				
					13	14	15	16	17	18	19	20

25 26 27 28 29 30 31

Appointments

09 Suspense is used to manage synchronization, data fetching and code-splitting allowing you to display loading indicator while the data load or code set is being fetched. When suspense is encountered by read it knows there might be a delay in rendering & it can handle that situation gracefully.

13 // Episode -10 - Styling our app

14 ① First way to write CSS
15 The first way to create an index.css add .css a/c to class name.

16 ② Second way to write SASS & SCSS
17 SASS (Syntactically Awesome Style Sheet).
SASS is a CSS preprocessor meaning it extends CSS with ^{extra} features like: variables, nesting, mixins, functions and inheritance.
Browsers do not understand SASS it must be compiled it to CSS.

It is compiled using SASS compiler and you can use build tools like vite, gulp, parcel, etc. to let them handle compilation. You can run this command
 SASS input.sass output.css
 2025 SASS input.scss output.css

OCTOBER														
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
16	17	18	19	20	21	22	23	24	25	26	27	28	29	30

MONDAY

Week 42

Day (286-079)

13

Appointments SCSS (Sassy CSS) is one of the syntaxes of SASS

10 SASS has two syntaxes

11 1. SASS (original, indented syntax)

12 2. SCSS (CSS-like syntax - most popular)

13 SASS vs SCSS (writing-style)

14 1. SASS: No {} braces, NO semicolon (;), use indentation

15 \$primary-color: blue

body

background: #f5f5f5

h1

color: \$primary-color

16 2. SCSS: uses braces {} & semicolons ;

very similar to CSS, EASY

\$primary-color: blue

body {

background: #f5f5f5;

}

h1 {

color: \$primary-color;

}

Both are need to compiled into CSS before sending to browser.

14

TUESDAY

Week 42

Day (287-078)

OCTOBER

S	M	T	W	T	F	S	S	M	T	W	T	F	S
01	02	03	04	05	06	07	08	09	10	11	12		
C													
T	13	14	15	16	17	18	19	20	21	22	23	24	25
25	26	27	28	29	30	31							

Appointments

Recommended way (Lot of big companies used it) :- styled-components

09

It is a popular CSS-JS library used mainly with React & React Native that lets you write CSS inside your JS files, scoped to individual components. It removes unused CSS automatically & can styled components dynamically using props.

Traditional CSS

```
13 button {  
    background: blue;  
    color: white;  
}
```

14

```
15 <Button className="button">  
    Click Me </Button>
```

Styled CSS

```
import styled from 'styled-components'  
const Button = styled.button`  
    background: blue;  
    color: white;
```

```
<Button> Click Me </Button>
```

=> Dynamic styling with Props,

```
16 const Button = styled.button`
```

```
background: ${props.primary ? "blue": "gray"};  
color: white;
```

```
<Button primary> Primary </Button> (blue)  
<Button> Secondary </Button> (gray)
```

④ material UI, chakra UI, bootstrap : CSS libraries and frameworks.

They give us pre-styled components. We just import into our app and use it.

=> Extending Styles

```
const Button = styled.button`
```

```
padding: 10px;
```

```
border-radius: 5px;
```

OCTOBER

S	M	T	W	T	F	S
01	02	03	04	05	06	07
08	09	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30					

WEDNESDAY

Week 42

Day (288-077)

15

Appointments const DangerButton = styled(Button)
background: red;

09
10 => Styling based on themes

11 import { ThemeProvider } from "styled-components";

12 const themes = {
13 colors: {

14 primary: "#1AD1F2" } } ;

15 } ;

16 const Button = styled.button

17 background: \${ props > props.themes.colors.primary } ;

18 <ThemeProvider theme={ theme } >

19 <Button>Theme Button </Button>

20 </ThemeProvider>

gray");

21

How to use in Real-life

One Base button + variants using props;

Export const Button = styled.button

padding: 10px;

border-radius: 6px;

border: none;

22

base background: \${ theme.variant } => {

background: \${ variant.theme } => {

button variant

theme.button[variant] .bg } ;

2025

NOVEMBER

16

THURSDAY

Week 42

Day (289-076)

OCTOBER

O	M	T	W	T	F	S	S	M	T	W	T	F	S
C		01	02	03	04	05	06	07	08	09	10	11	12
T	13	14	15	16	17	18	19	20	21	22	23	24	25
	25	26	27	28	29	30	31						

Appointments color: \${ variant, theme }) =>

09 theme.button[variant].color };

10

Theme (centralized styles)

11 const theme = {

button: {

12 primary: {

bg: "#1DA1F2",

13 color: "white", }

14 secondary: {

bg: "blue", }

15 color: "white", }

16 }

}

17 button variant = "primary" same </button>

Using CSS helper (Advanced & Clean)

import styled, {css} from 'styled-components';
const variants = {

primary: css`

background: "blue";

color: "white";

`,

secondary: css`

background: "gray";

color: "white";

`,

2025

SUN	MON	TUE	WED	THU	FRI	SAT
01	02	03	04	05	06	07
08	09	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30					

17

FRIDAY

Week 12

Appointments

⑩ export const Button = styled.button`

padding: 10px 16px;

border-radius: 5px;

11 \${{ variants }} => variants [variants];

12 ;

13 <Button variant = "primary" />

14 ④ material UI, chakra UI, bootstrap : CSS libraries
They give pre-styled components & we just import
it & we use it.

⑤ Tailwind CSS

15 We will install tailwind css package using
npm i -D tailwindcss postcss
where postcss is used to ~~convert~~ transforming
16 CSS with Javascript.

We will create .postcssrc and parcel will
read this file and it will tell parcel that
we are using tailwind.

Tailwind CSS gives us className to use any CSS
in our app

If we want to give specific value in
width or others we can use '[]'
w-[200px]

18

SATURDAY

Week 42

Day (291-074)

OCTOBER

S	M	T	W	F	S	S	M	T	W	F	S
	C	01	02	03	04	05	06	07	08	09	10
T	13	14	15	16	17	18	19	20	21	22	23
	25	27	28	29	30	31					

Appointments

Pro and Cons of Tailwind CSS

09

Pro

- We don't have to move between files.
- It is very lightweight as parcel will bundle (import only.css) only.css which is required. If we use m-4, p-4 or otherwise times, it will only include that many times it is dynamic.

Cons

- If we have to write a lot of.css for something we have to add more & more things in className which makes our code looks ugly & verbose.

15

16 Media query in Tailwind uses like sm, md, lg, xl

17

<div className = "bg-pink-100 sm: bg-yellow">
Header </div>

19 SUNDAY

If my device size is greater than sm then show yellow header else show pink

Dark mode in Tailwind

<div className = "text-state-500 dark: text-state-100">
Header </div>

2025 So in dark mode it has text color has text-state-400 otherwise text-state-500.

OCTOBER

S	S	M	T	W	T	F	S
01	02	03	04	05	06	07	08
09	10	11	12	13	14	15	16
17	18	19	20	21	22	23	24
25	26	27	28	29	30		

Notes

20

MONDAY

Week 43

Day (293-072)

Appointments

CSS can be added in 3 ways in HTML doc

09

① Inline :- by using style attribute inside HTML element

10

<h1 style="color: blue">A Blue Heading</h1>

11

② Internal :- by using <style> element in the section

12

<html>

13

<head>

14

<style>

15

body {background-color: blue;}

h1 {color: blue;}

16

p {color: red;}

</style>

17

</head>

18

③ External :- by using <link> element to link to external CSS file

<link rel="stylesheet" href="styles.css">

In tailwind.config.js what does all the keys mean (content, theme, extend, plugins)?

1. content key : specifies the files that Tailwind CSS should analyze to generate its utility classes
module.exports = {

content: ['./src/*.*.html',
'./src/*.*.js',

// Add more file path needed

], }

NOVEMBER

21

TUESDAY

Week 43

Day (294-071)

OCTOBER

S	M	T	W	T	F	S	S	M	T	W	T	F	S
C	01	02	03	04	05	06	07	08	09	10	11	12	
T	13	14	15	16	17	18	19	20	21	22	23	24	25
	26	27	28	29	30	31							

Appointments

09

② theme key : Defines the default styles and configuration for various aspects of Tailwind CSS, such as colors, spacing, fonts & more.

11 ③ extend key : Extends or overrides the default configuration provided by Tailwind CSS.

```
13 module.exports = {
  extend: {
    colors: {
      primary: '#2490de',
      secondary: '#ffed4a',
      // Add more
    }
  },
  // Other extensions
}

17 // Other config
}
```

④ plugins key : Allows you to use or define custom plugins to extend or modify Tailwind CSS functionality.

```
module.exports = {
  plugins: [
    require('@tailwindcss/forms'),
  ],
}
```

OCTOBER

S	M	T	W	T	F	S	S	M	T	W	T	F	S
01	02	03	04	05	06	07	08	09	10	11	12	13	14
15	16	17	18	19	20	21	22	23	24	25	26	27	28
29	30												

WEDNESDAY

Week 43

Day (295-070)

22

Appointments

Why do we have .postcssrc file?

09

Reasons

- 10 • Plugin config: The main purpose of this file is to configure the plugins that PostCSS should use during the CSS transformation process. These plugins can handle tasks such as autoprefixing, minification and syntax enhancements.
- 11 • Custom config:- You may need a .postcssrc file if you want to customize the behaviour of PostCSS beyond the default settings provided by build tool (webpack) - This allows you to have fine-grained control over the PostCSS transformations.
- 12 • Presets and Options: PostCSS plugins often come with various options and presets that you can configure based on your project's needs. The .postcssrc file is a convenient place to define these presets and options.
- 13 • Maintainability : Separating the PostCSS configuration into its own file makes the build configuration more maintainable and organized. It allows you to centralize PostCSS-related settings and keep them distinct from other build tool config.
- 14 • Sharing config : Having a dedicated config file makes it easier to share & reuse PostCSS config across different projects. It can be particularly useful in larger development ecosystem where consistent styles and build processes are desired.

NOVEMBER

2025