

# Welcome - Session 5 Overview

- Styling methods in React (Web)
- Styling in React Native
- CSS Modules, CSS-in-JS, and utility-first CSS
- Styling best practices
- Responsive and adaptive UI

# Styling Approaches in React (Web)

Plain CSS files (global)

CSS Modules (scoped to components)

Inline styles (style={{}})

CSS-in-JS (styled-components, Emotion)

Utility CSS (TailwindCSS)

# Plain CSS and CSS Modules

```
/* App.css */  
.title { color: blue; }
```

```
// App.jsx  
import './App.css';  
<h1 className="title">Hello</h1>
```

CSS Modules:

```
import styles from './App.module.css';  
<h1 className={styles.title}>Hello</h1>
```

Helps avoid class name collisions

# Inline Styles & Conditional Styling

```
const style = {  
  padding: '1rem',  
  backgroundColor: isActive ? 'green' : 'gray'  
};
```

```
<div style={style}>Click Me</div>
```

- Useful for dynamic values
- Not recommended for large-scale styling

# CSS-in-JS with Styled-Components

```
import styled from 'styled-components';
```

```
const Button = styled.button`  
  background: blue;  
  color: white;  
  padding: 0.5rem 1rem;  
`;
```

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

# CSS with Tailwind

```
<button className="bg-blue-500 text-white px-4 py-2 rounded">
```

Click Me

```
</button>
```

- Fast styling with pre-defined classes
- No need to write custom CSS
- Good for consistent spacing, colors, and layout

# Responsive Design with Media Queries

```
@media (max-width: 768px) {  
  .container { flex-direction: column; }  
}
```

- Use em, %, or rem units for flexibility
- Tailwind: md:flex-col, sm:text-center, etc.

# Styling in React Native

- Use the StyleSheet API
- Styles are JS objects
- No CSS files

```
const styles = StyleSheet.create({  
  container: { padding: 20, backgroundColor: 'white'},  
  title: { fontSize: 24, color: 'black' }  
});
```

```
<View style={styles.container}>  
  <Text style={styles.title}>Hello</Text>  
</View>
```



# Conditional & Reusable Styles (React Native)

```
<Text style={[styles.label, isError && styles.error]}>Message</Text>
```

- Use arrays to combine styles
- Add conditional styles based on props or state

# Custom Themes and Global Styles

- Web:
  - Use context or CSS variables for theming
  - Example: Light/Dark mode toggle
- Native:
  - Use context or a UI library like NativeBase or React Native Paper

# Best Practices for Styling

- Keep styles close to components (e.g., CSS Modules, Styled Components)
- Be consistent with naming and spacing
- Avoid deep nesting in styles
- Abstract repetitive styles into shared files
- Prefer responsive/adaptive design

# Styling Libraries and Frameworks

- Web:
  - TailwindCSS
  - Styled Components
  - Emotion
  - Bootstrap
- Native:
  - NativeBase
  - React Native Paper
  - Tamagui (cross-platform)

# Recap & Q&A

- Multiple ways to style React and React Native apps
- Choose method based on scale, team, and maintainability
- Emphasize reusability, responsiveness, and simplicity