



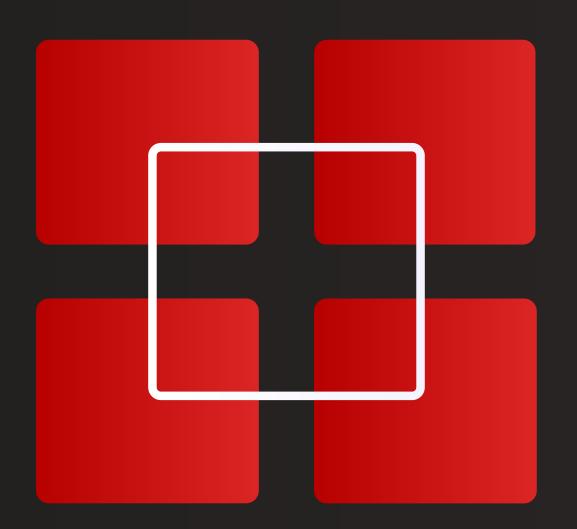
CSS at Scale

Problems with CSS, introduce tailwindCSS framework



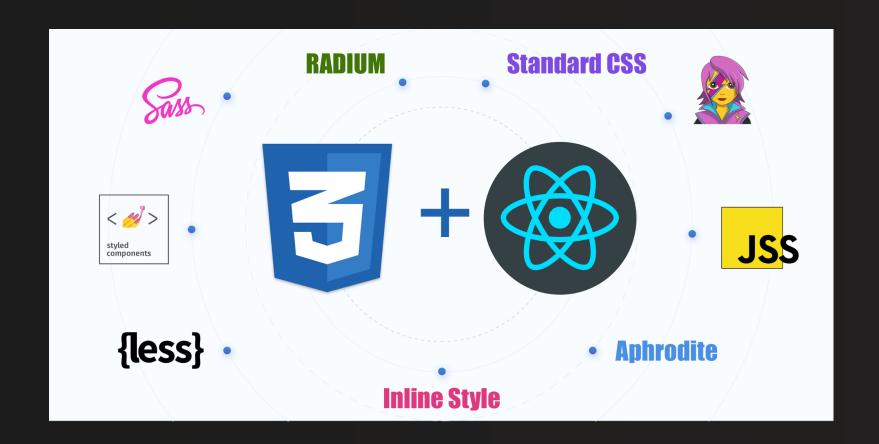
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Common ways to style React component

Summarize some common ways to use CSS in React application briefly



Inline-style



CSS-in-CSS

```
// style.css
.button {
  color: 'red';
  padding: '10px, 20px';
// Button.tsx
import React from 'react'
import './style.css'
const Button = () => {
  return (
    <button className="button">Simple button
export default Button
```



CSS-in-JS



CSS Module



Questions

- 1. HOW CSS MODULE WORKS DIFFERENTLY WITH CSS-IN-CSS
- 2. WHAT CSS-IN-JS DOES UNDER THE HOOD?



Why we need so much approaches for only style components?





Problem with CSS-in-CSS

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DEMO

Let's look at a simple demo first.

https://codesandbox.io/s/css-seminar-hkv96?file=/src/index.tsx



Global namespace

- 1. All selectors are global
- 2. We tend to create new style instead of trying to re-used



Non-deterministic resolution

1. All selectors can be applied to any components despite the location's of component and CSS file.



Dead code elimination

1. Cannot make sure whether a selectors only affects on only one component.

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Minification

1. Because it's hard to remove unused selectors. Which leads to harding reduce the CSS file's size.

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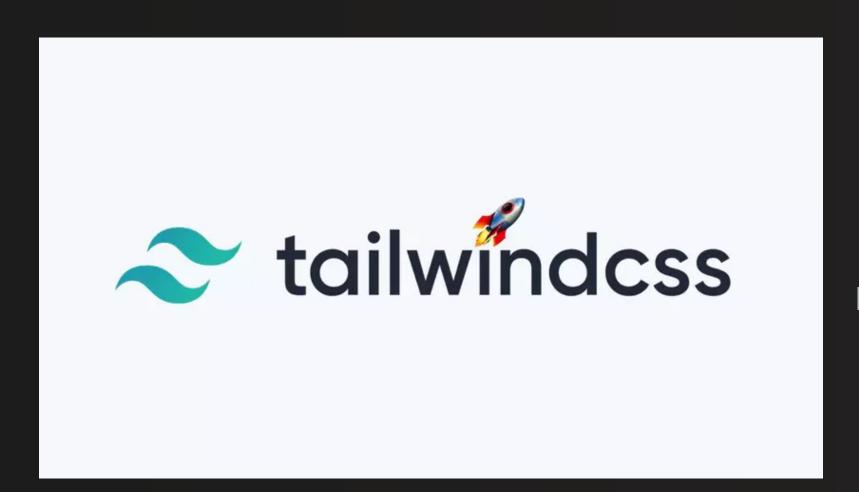


Sharing styling

1. Hard to reused predefined styling

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Introduce TailwindCSS

Introduce CSS framework CSS and let's see how many problems it solves

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What is tailwindCSS?

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TailwindCSS is a utility-first CSS framework.

- It contains a bunch of predefined classes
- Think about it like boostrap but of course... with differences.

```
<
       <div class="w-64 h-3 bg-gradient-to-br from-fuchsia-500 to-purple-600"></div>
      <
       <div class="w-56 h-3 bg-gradient-to-br from-fuchsia-500 to-purple-600"></div>
      <
       <div class="w-48 h-3 bg-gradient-to-br from-fuchsia-500 to-purple-600"></div>
      10
      <
       <div class="w-40 h-3 bg-gradient-to-br from-fuchsia-500 to-purple-600"></div>
12
      13
```



Advantages of using tailwindCSS



Free in design

- Allow you to style components at low level
- Easy to customize
- Re-useability



System characteristic

- Comes with handy predefined classes
- Do not increase the CSS file size so much

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Tiny in production

- Tailwind automatically removes all unusued CSS when building for production (*)
- Most tailwind projects ship less than 10kB of CSS to the client



Some notices that good to know



Adding base styles for HTML element

You can adding default style for HTML element



Extracting component's style

You can extracting style of component that is used repeatedly

```
// style.css
dtailwind base;
dtailwind components;
definition of the style of
```



Extracting utilities

You also can add new utilities for reuse between many components

```
// style.css
dtailwind base;
dtailwind components;
detailwind utilities;

detailwind components;
detailwind utilities;
detailwind
```



Just-in-Time mode

Only combine the code that needed