CSS at Scale

Problems with CSS, introduce tailwindCSS framework

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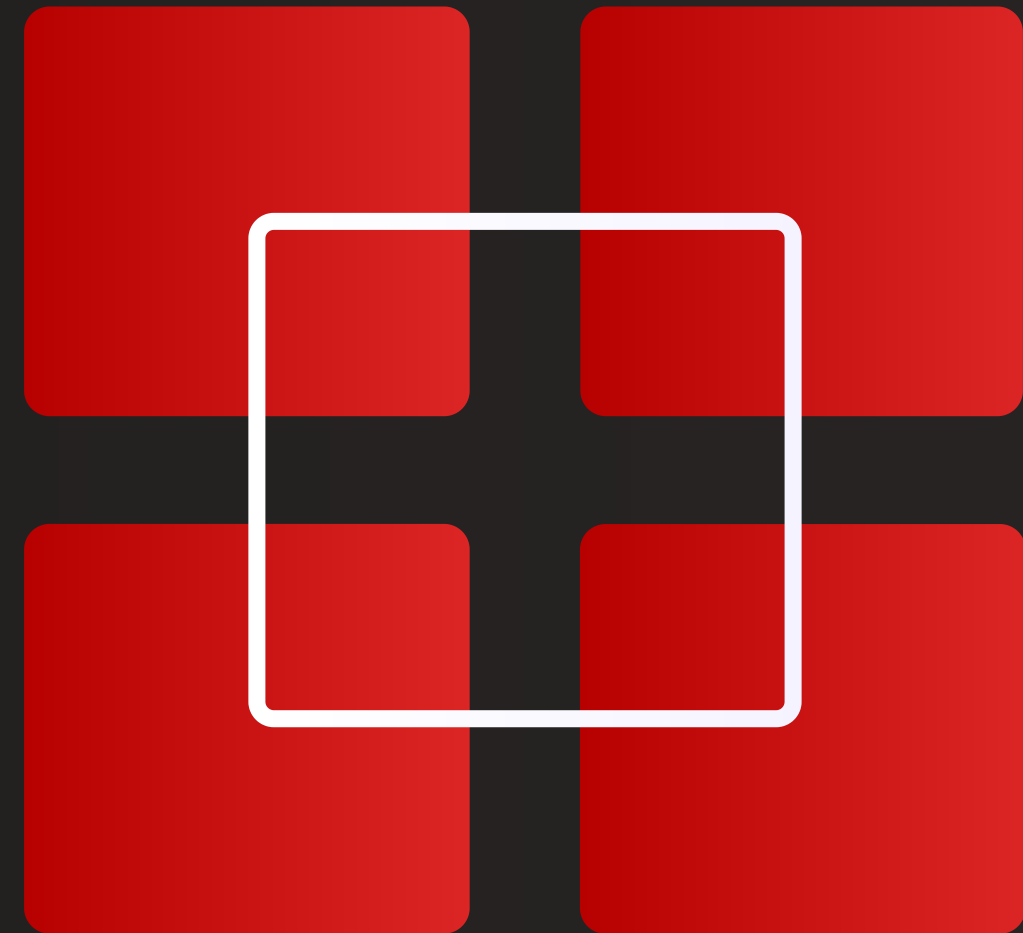
Common ways to style React component

Summarize some common ways to use CSS in React application briefly

Inline-style

```
1   import React from 'react'
2
3   const Button = () => {
4     return (
5       <button style={{
6         color: 'red',
7         padding: '10px 20px',
8       }}>
9         Simple button
10      </button>
11    )
12  }
13
14  export default Button
```

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CSS-in-CSS

```css
1  // style.css
2  .button {
3    color: 'red';
4    padding: '10px, 20px';
5    ...
6  }
```

```tsx
1  // Button.tsx
2  import React from 'react'
3  import './style.css'
4
5
6  const Button = () => {
7    return (
8      <button className="button">Simple button</button>
9    )
10  }
11
12  export default Button
```

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CSS-in-JS

```
1    import React from "react"
2    import styled from "styled-components"
3
4    const ButtonStyled = styled.button`
5          color: 'red';
6          padding: '10px 20px';
7       `
8    const Button = (props) => (
9       <ButtonStyled {...props}>Simple button</ButtonStyled>
```

CSS Module

```
 1    import React from 'react'
 2    import styles from './styles.css'
 3
 4    const Button = () => {
 5      return (
 6        <button className={styles.button}>Simple button</button>
 7      )
 8    }
 9
10    export default Button
```

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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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.

Minification

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

Sharing styling

1. Hard to reused predefined styling

Introduce TailwindCSS

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

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