

02

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凹凸实验室

CSS-in-JS 介绍

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1.什么是 CSS-in-JS ?

2.CSS-in-JS 库 emotion

3.总结

什么是 CSS-in-JS ?

“CSS-in-JS 就是用 JS 来写 CSS。”

– unknown

- 全局污染
- 命名混乱
- 样式重用困难
- 代码冗余
- JS 和 CSS 无法共享变量

- SASS / LESS / Stylus
- OOCSS / SMACSS / BEM / ITCSS
 - CSS Modules
 - CSS in JS

React 诞生

```
const style = {  
  'color': 'red',  
  'fontSize': '12px'  
}
```

```
class App extends Component {  
  render() {  
    return (  
      <div style={style}></div>  
    );  
  }  
}
```

Inline style


```
▼ <div id="root">  
  <div style="color: red; font-size: 12px;">Hello world!</div>  
</div>
```

```
import styled from 'react-emotion'

const Hello = styled('div')`
  color: red;
  font-size: 12px;

class App extends Component {
  render() {
    return (
      <div>
        <Hello>Hello world!</Hello>
      </div>
    )
  }
}
```

CSS in JS

```
<style type="text/css">body {  
  margin: 0;  
  padding: 0;  
  font-family: sans-serif;  
}  
</style>  
<style data-emotion></style>  
<style data-emotion>.css-xe93it{color:red;fontSize:12px;}</style>
```

```
▼ <div id="root">
```

```
  <div class="css-xe93it">Hello world!</div>
```

```
</div>
```

- styled-components
 - glamorous
 - emotion

emotion

```
import * as React from 'react'
import { css } from 'emotion'

const jd_red = '#E93B3D'
const pink = 'hotpink'

export class Css extends React.Component {

  render () {
    return (
      <div className={css`
        font-size: ${this.props.fontSize ? this.props.fontSize : '14px'};
        background-color: ${jd_red};
        &:hover {
          background-color: ${pink};
        }
      `}>{this.props.children}</div>
    )
  }
}
```

CSS

```
import styled from 'react-emotion'

const jd_red = '#E93B3D'
const pink = 'hotpink'

export const Styled = styled('div')`
  color: green;
  font-size: 20px;
  background-color: ${props => props.primary ? jd_red : pink}
`
```

Styled Components


```
import * as React from 'react';
import { css } from 'emotion';

const obj = (color) => css({
  color: color ? color : 'orange',
  fontSize: 14,
  background: ['red', 'linear-gradient(#e66465, #9198e5)'],
});

export class ObjectComponent extends React.Component {
  render () {
    return (
      <div className={obj()}>{this.props.children}</div>
    )
  }
}
```

Object Styles


```

import { css } from 'emotion'

const gray = 'gray'
const pink = 'hotpink'

const nested = css({
  color: gray,

  '& .link': {
    color: pink,
    borderBottom: '1px solid currentColor',
    cursor: 'pointer',
  },

  '@media (max-width: 420px)': {
    color: 'green',
  }
})

export class Nested extends Component {
  render () {
    return (
      <div className={nested}>This is nested component! Here has a <a className={'link'}> link</a></div>
    )
  }
}

```

Nested Selectors

```
import { injectGlobal } from 'emotion';
```

```
injectGlobal`
```

```
  * {
```

```
    box-sizing: border-box;
```

```
  }
```

```
  html, body {
```

```
    font-size: 14px;
```

```
  }
```

```
`
```

Global Styles

优缺点

- 生成唯一 classname，避免全局污染，解决命名规则混乱
 - JavaScript 和 CSS 之间变量共享，方便灵活
- 只生成页面所需要的代码，缩减了最终包的大小
 - All in JavaScript
 - css 单元测试

- 把 CSS 写进 JS ， 增加复杂度， 学习成本高
 - 对前端框架依赖度高， 比如 React
- 覆盖第三方插件样式可能会权重不够
 - lint 工具不友好

T H A N K S
FOR YOUR WATCHING



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