

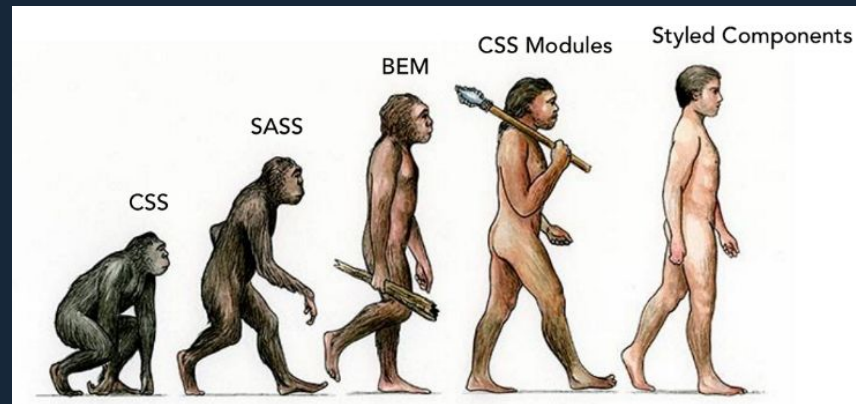
# CSS-in-JS: styled-components



Дмитрий Боровский @dmitrbrvsk

CSSSR

# Эволюция CSS



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## Назад в 90-ые

Дмитрий Боровский @dmitrbrvsk



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## Bad CSS

```
.logo {  
    font-size: 12px !important;  
}
```

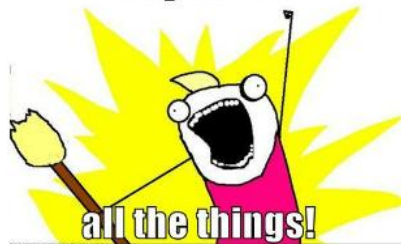
Tricky CSS  
inheritance  
issue on  
Monday

CHALLENGE ACCEPTED



Tricky CSS  
inheritance  
issue on  
Friday

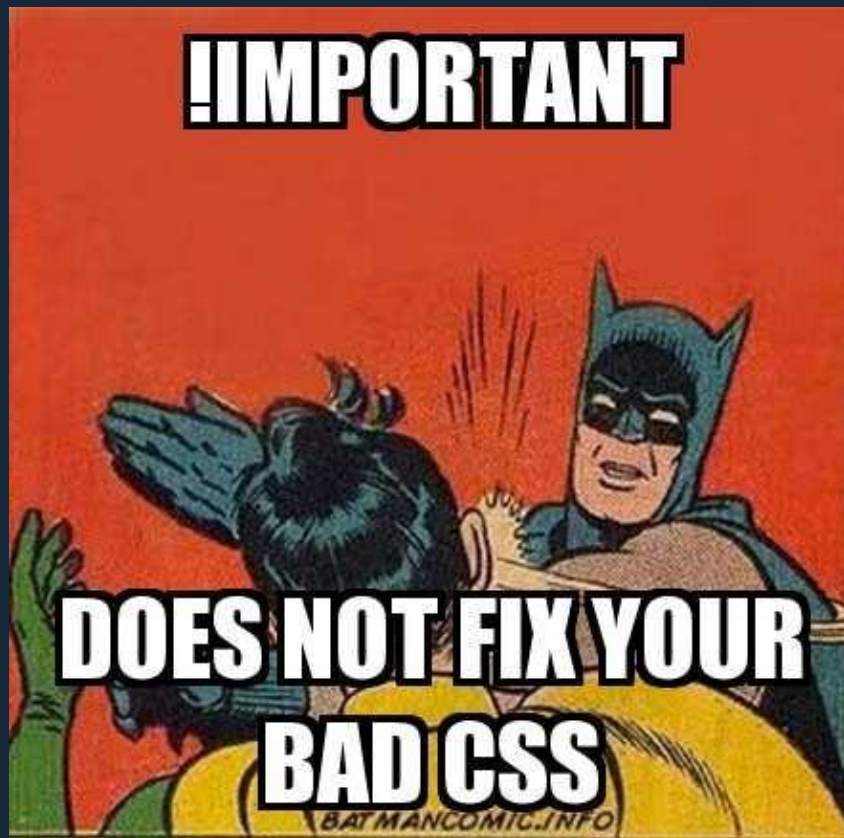
!important



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## Bad CSS

```
.logo {  
    font-size: 12px !important;  
}
```



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## SASS

```
%message-shared {  
  border: 1px solid #ccc;  
  padding: 10px;  
  color: #333;  
}
```

```
.message {  
  @extend %message-shared;  
  border-color: green;  
}
```



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## Глоток свежего воздуха

```
/* Block */  
.btn {}
```

```
/* Element */  
.btn__price {}
```

```
/* Modifier */  
.btn--orange {}  
.btn--big {}
```

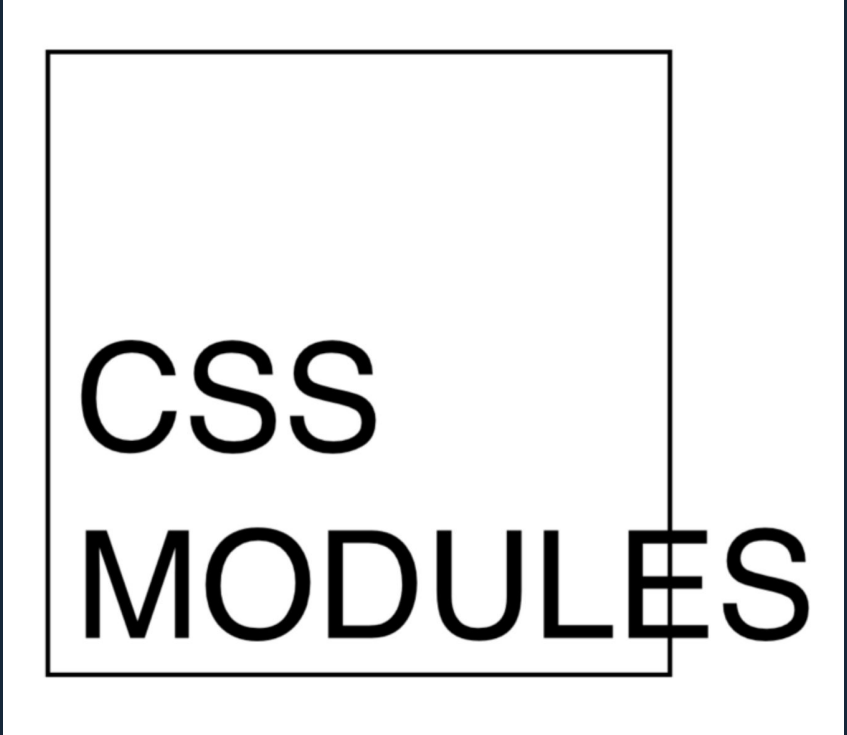




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## CSS модули

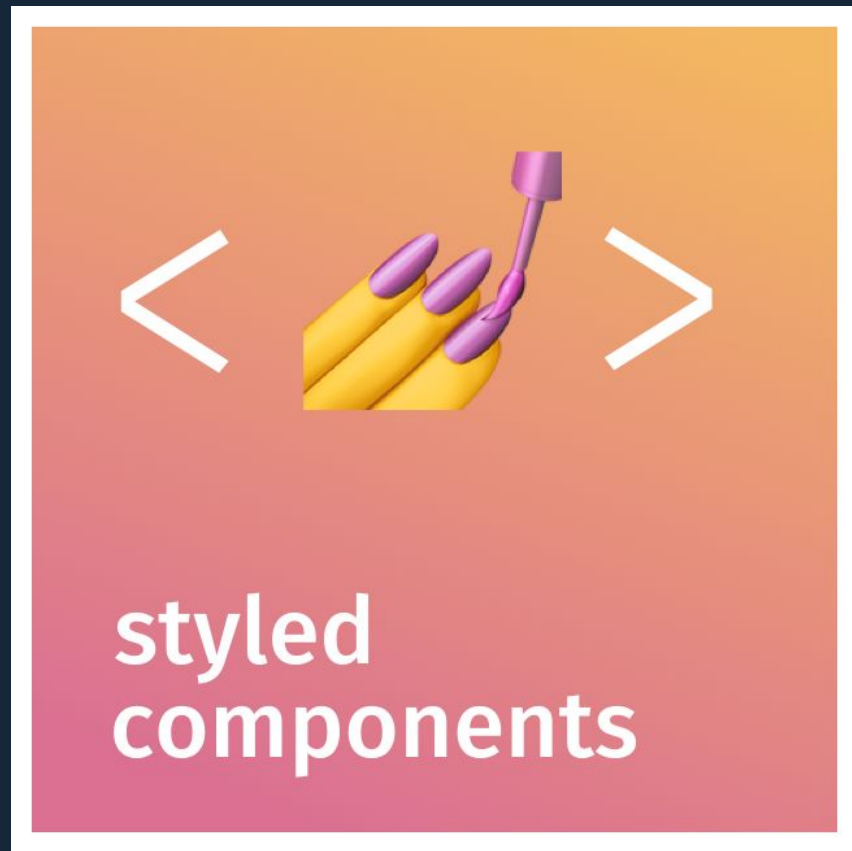
```
<h1 class="App__App-title_1mzDF">  
  An example heading  
</h1>
```



CSS  
MODULES

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## Styled-components



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# Архитектура

Было

```
import React from 'react';
import cn from 'classnames';

export const Button = ({ children, disabled }) = {
  <button
    className={cn({
      'button': true,
      'button_disabled': disabled,
    })}
  >
    {children}
  </button>
}

//sass
.button {
  opacity: 1;

  &_disabled {
    opacity: 0.5;
  }
}
```

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# Архитектура

Стало

```
import React from 'react';  
import styled from 'styled-components';  
  
export const Button = styled.button`  
  opacity: ${props => props.disabled ?  
    0.5 : 1 }  
`;  
;
```

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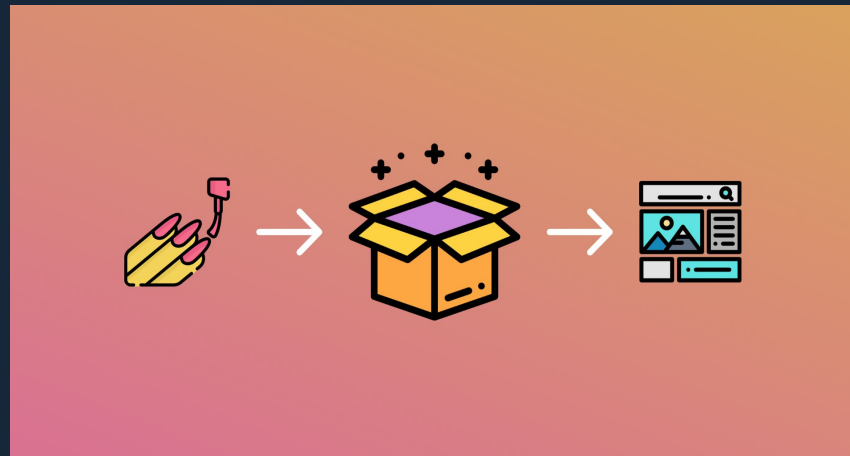
# Архитектура

Стало

```
render() {  
  const {count, inc, dec} = this.props;  
  return (  
    <Container>  
      <Title>{count}</Title>  
      <Button onClick={inc}>+</Button>  
      <Button onClick={dec}>-</Button>  
    </Container>  
  )  
}
```

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# Под капотом



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## Magic Syntax

```
const Button = styled.button`
  color: coral;
  padding: 0.25rem 1rem;
  border-radius: 3px;
  border: solid 2px coral;
  font-size: ${props => props.primary ?
'2em' : '1em'}
`;
// font-size: 2em;
<Button primary />I'm button</Button>
// font-size: 1em;
<Button>I'm button</Button>
```

A rectangular button with a coral-colored border and the text "I'm a button" in coral color.

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## Tagged String Literals

```
logArgs('I like styled-components.');
```

```
// -> 'I like styled-components.'
```

```
logArgs`I like styled-components.`;
```

```
// -> ['I like styled-components.']
```

```
const lib = 'React';
```

```
logArgs`I like ${lib}.`;
```

```
// -> ['I like ', '.'] "React"
```



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## Tagged String Literals

```
const logArgs = (...args) =>
args.forEach(arg => {
  if (typeof arg === 'function') {
    arg();
  }
});
```

```
logArgs('Hi', () => {
  console.log('CSS-in-JS') });
```

```
// -> 'CSS-in-JS'
```

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API

Styled

```
const Button = styled.button`
  background-color: palevioletred;
  border-radius: 3px;
  border: none;
  color: white;

  @media (max-width: 768px) {
    background: palevioletred;
  }
`;

const PrimaryButton = styled(Button)`
  background-color: #0011ff;
`;
```

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API

Attrs

```
const Container = styled.div.attrs({  
  style: props => ({color: props.color}),  
})`  
  width: 100px;  
  height: 100px;  
  padding: 10px;  
`;
```

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API

As

```
const Icon = styled.i`  
  color: red;  
`;  
;
```

```
render(  
  <Icon  
    as='button'  
    onClick={() => alert('It works!')}  
  >  
    Hello World!  
  </Icon>  
)
```

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## API

### Селекторы

- sc-block
- sc-selector
- sc-declaration
- sc-property
- sc-value

```
const Logo = styled.div`  
  width: 50px;  
  height: 50px;  
`;  
;
```

```
const Container = styled.div`  
  padding: 10px;  
  width: 200px;  
  
  ${Logo} {  
    width: ${props => props.width}px;  
    height: ${props => props.height}px;  
  }  
`;  
;
```

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# API

- `import { createGlobalStyle } from 'styled-components';`
- `import { css } from 'styled-components';`
- `import { keyframes } from 'styled-components';`
- `import { isStyledComponent } from 'styled-components';`
- `import { withTheme } from 'styled-components';`

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## Преимущества

- Изоляция стилей
- Изолированные селекторы
- Префиксы по умолчанию
- Вся мощь JS
- Компонентный подход
- Ленивая загрузка
- Dead CSS
- Возможность SSR

## Недостатки

- Создано для React
- Размер бандла: 42.3 kB minified, 14.6kB minified + gzipped
- Свойства с зарезервированными названиями
- Подсветка синтаксиса



## Инструменты

- Подсветка синтаксиса ([stylelint-processor-styled-components](#))
- Автокомплит ([Autocomplete for Atom and VS Code](#))
- Линтинг ([stylelint-processor-styled-components](#))
- Тестирование ([jest-styled-components](#))

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## **Ссылки**

[www.styled-components.com](http://www.styled-components.com)

[github.com/styled-components](https://github.com/styled-components)

[medium.com/styled-components](https://medium.com/styled-components)

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## Вопросы?

