How we built design system 💅🏻

@dbarabashdev 🚀

Engineer at @droptarget

Lviv 🚄 — Kyiv 🚄 — Amsterdam Schiphol ✈️ — Rotterdam 🚄

New project 💸

Design system 🦄

I just keep asking myself, why me? 💁🏻‍♂️

“🦄”

Saves time ⏰
Easy to update 🌟
Constructor 🏗
Without bugs 🤣 🤣

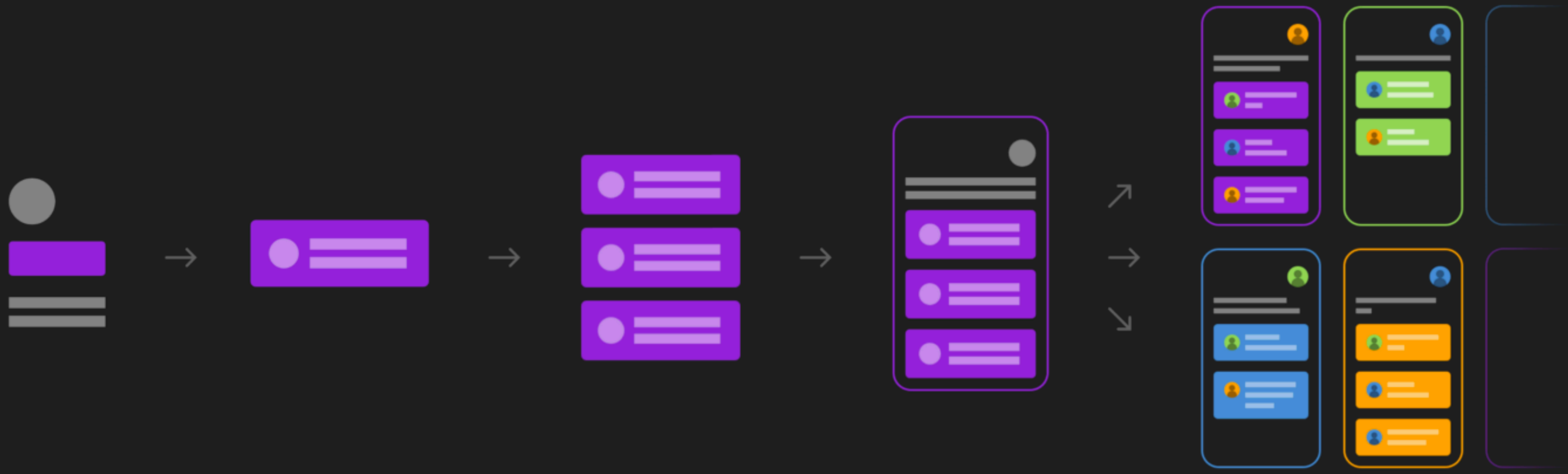
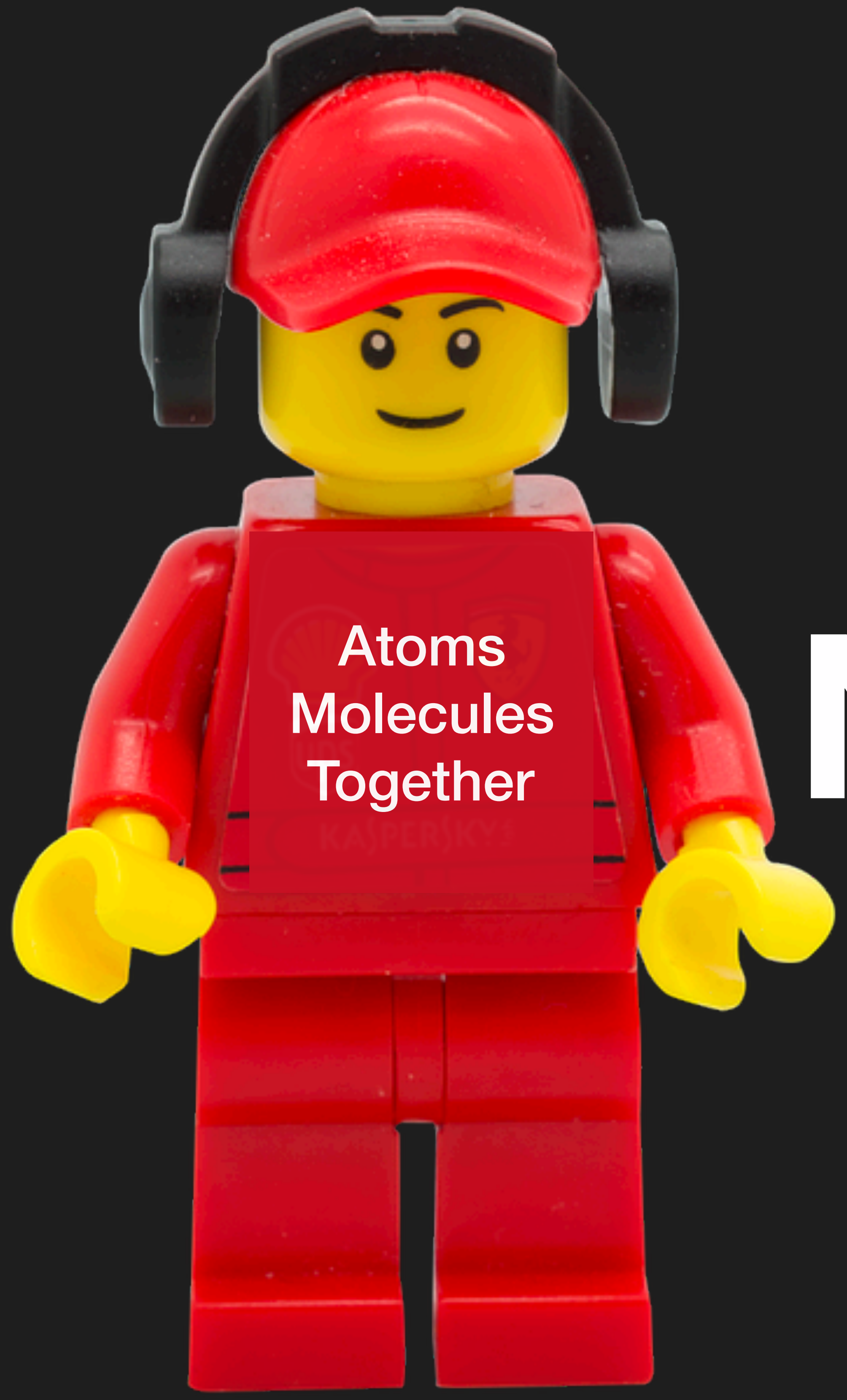


Image from

A T O M S

M O L E C U L E S

ORGA NISMS



TEMPL ATES

PA

GES

Primairy Button - Normal

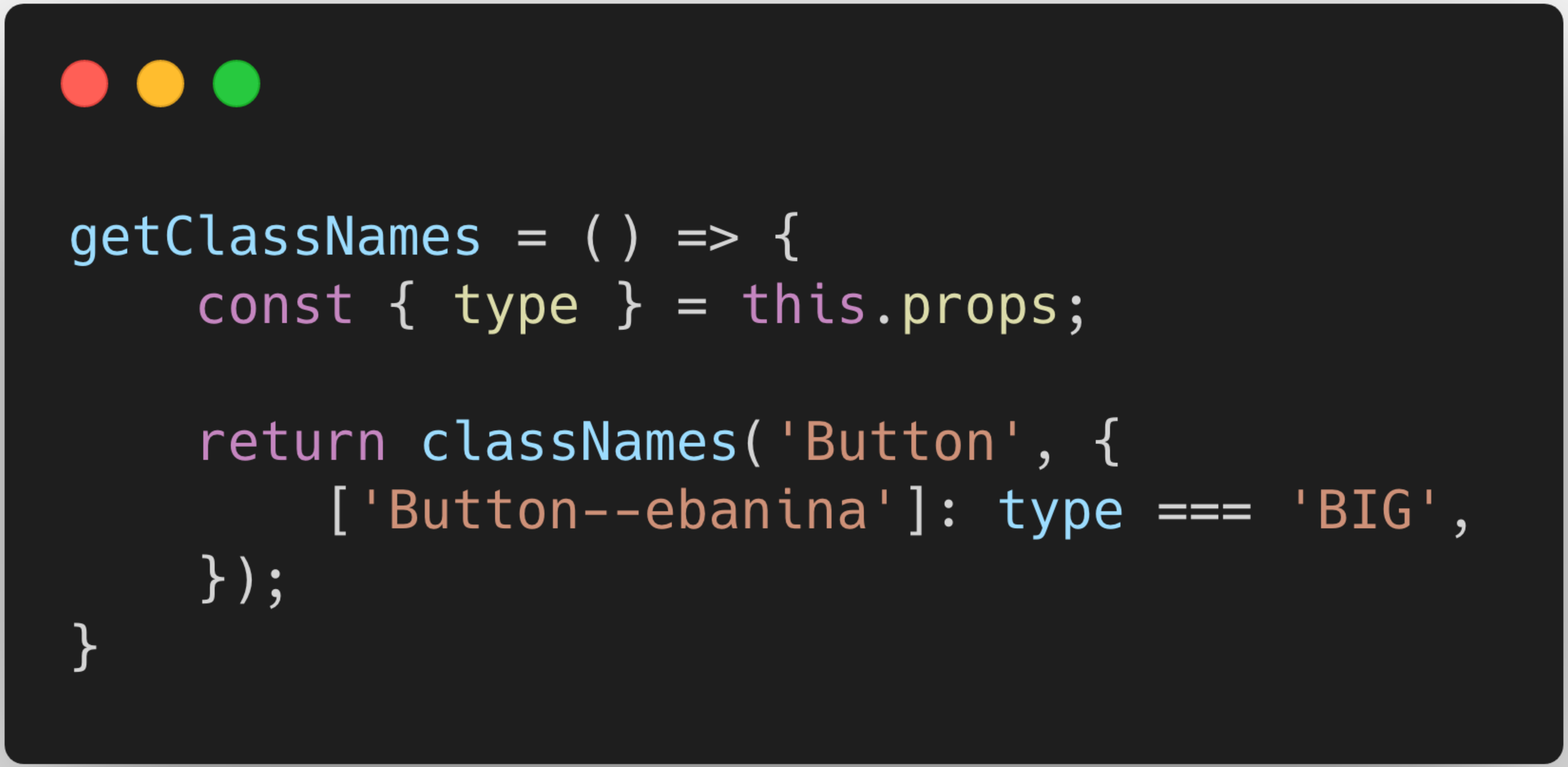
Primairy Button - Hoover

Secondairy Button - Normal

Secondairy Button - Hoover

Label →

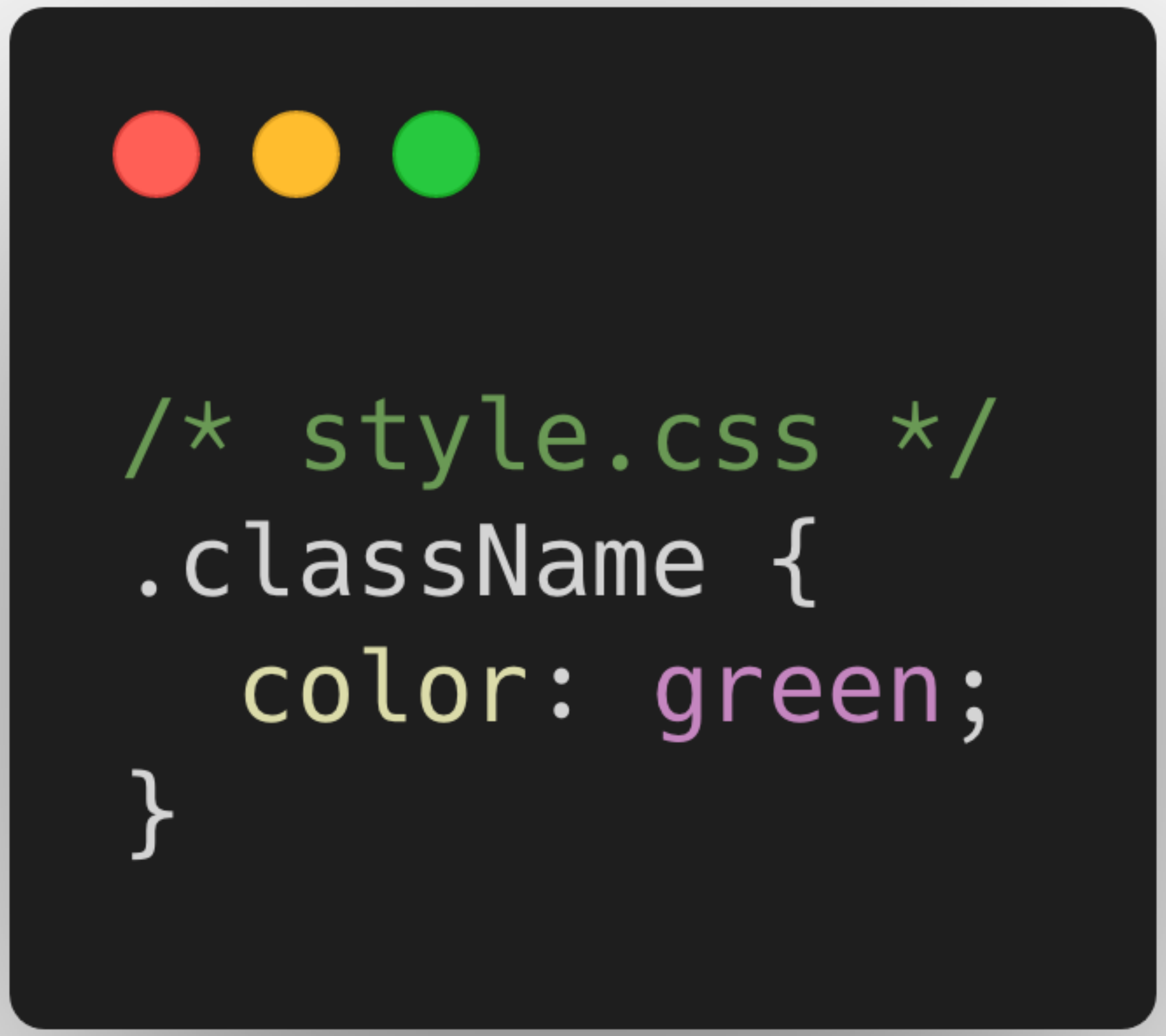
Label →



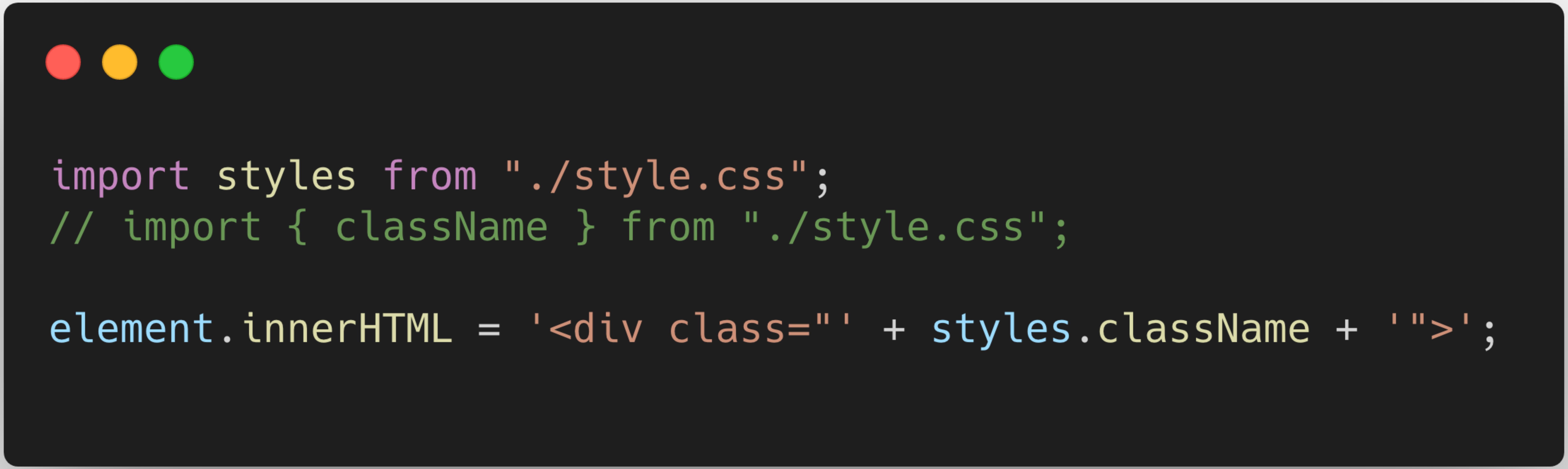
```
getClassNames = () => {
    const { type } = this.props;

    return classNames('Button', {
        ['Button--ebanina']: type === 'BIG',
    });
}
```

CSS SUCKS 🤒

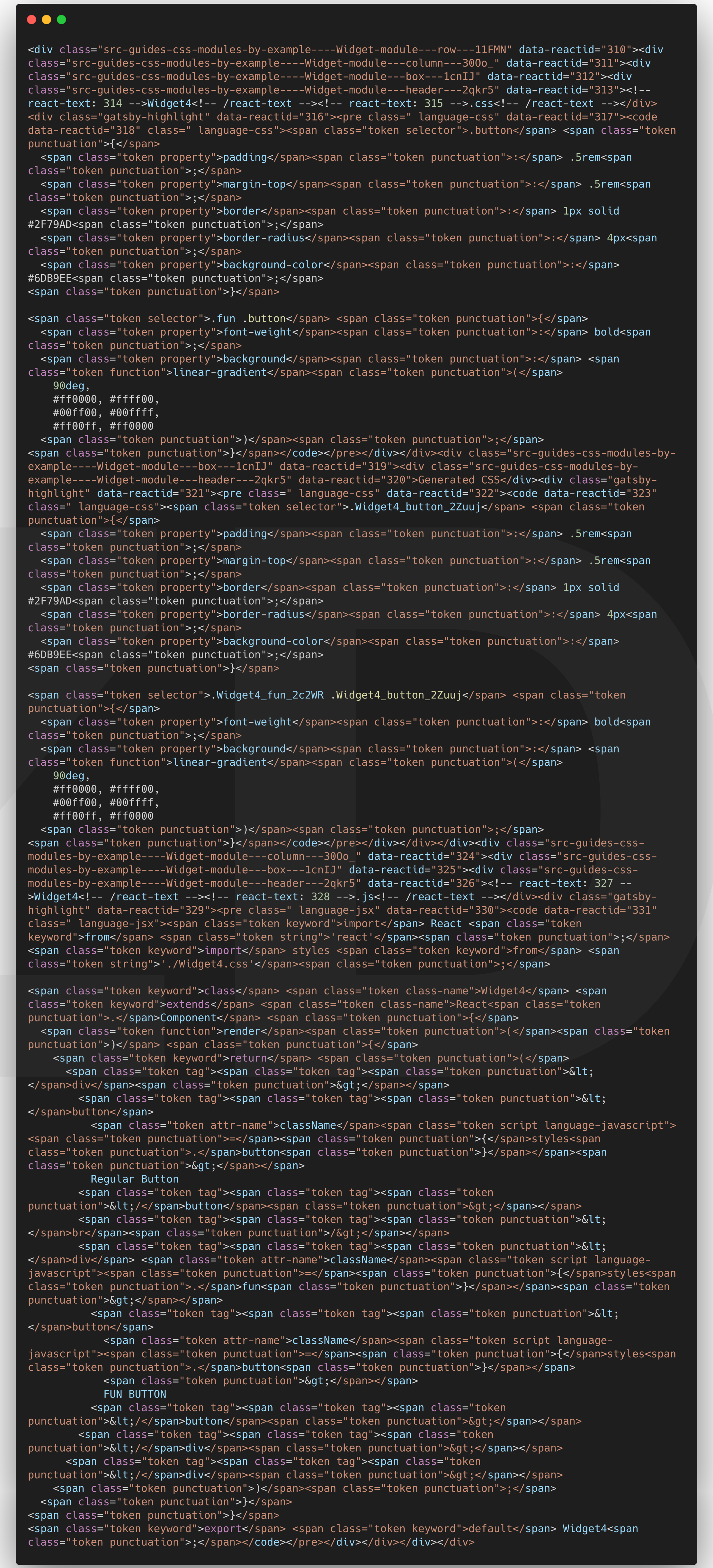
CSS MODULES



```css
/* style.css */
.className {
  color: green;
}
```

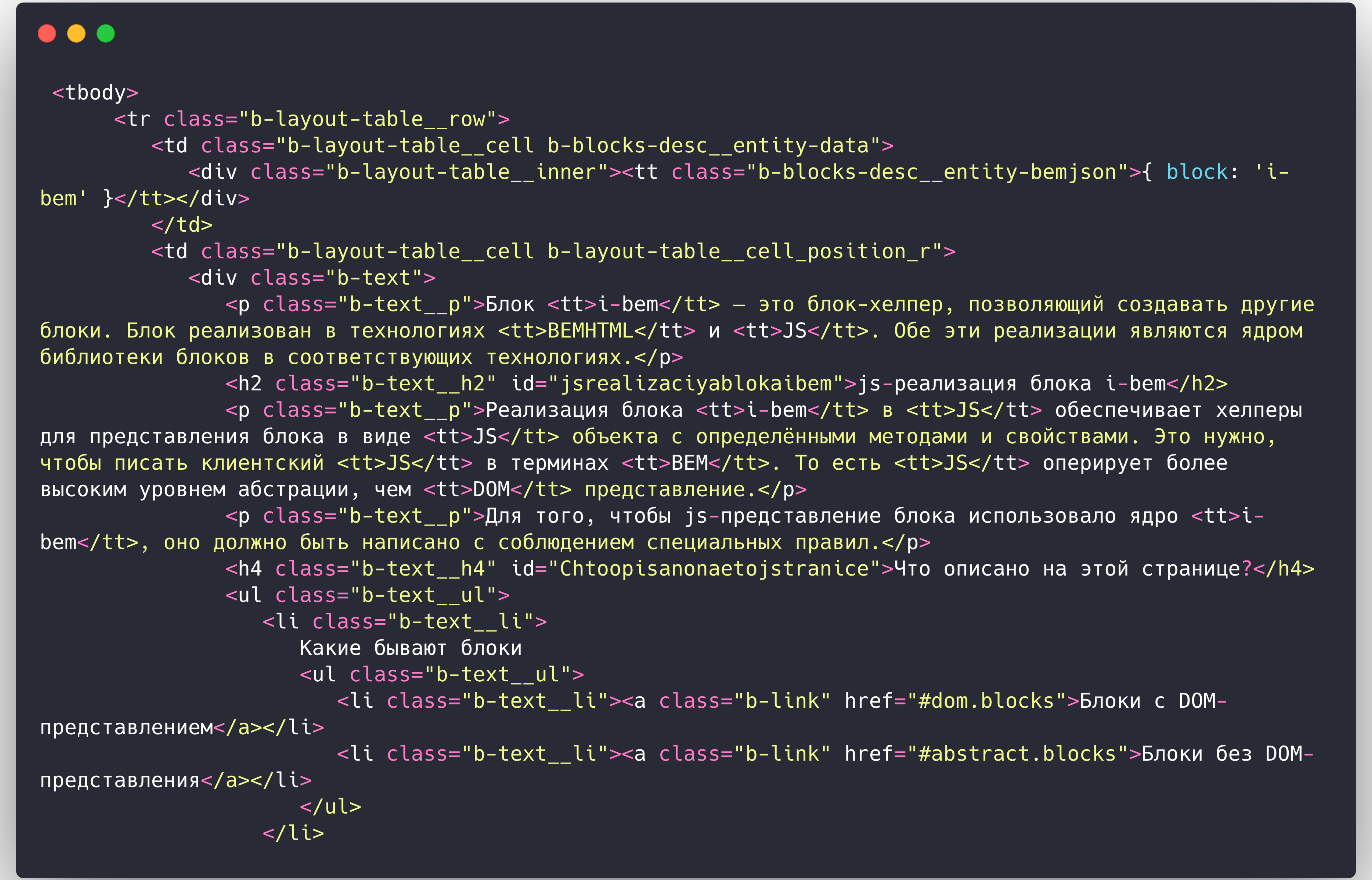


```
import styles from "./style.css";
// import { className } from "./style.css";

element.innerHTML = '<div class="' + styles.className + '">';
```

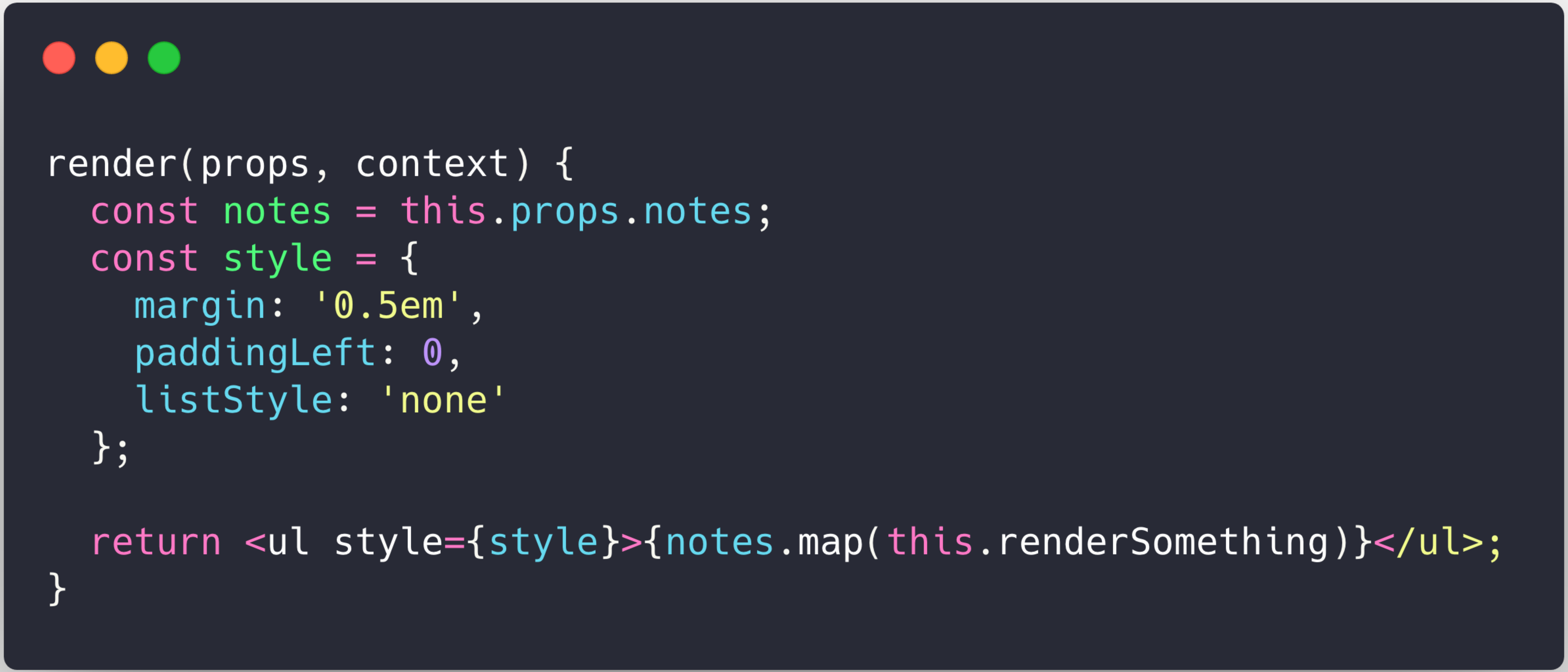


```html
<div class="src-guides-css-modules-by-example----Widget-module---row---11FMN" data-reactid="310"><div
class="src-guides-css-modules-by-example----Widget-module---column---30Oo_" data-reactid="311"><div
class="src-guides-css-modules-by-example----Widget-module---box---1cnIJ" data-reactid="312"><div
class="src-guides-css-modules-by-example----Widget-module---header---2qkr5" data-reactid="313"><!--
react-text: 314 -->Widget4<!-- /react-text --><!-- react-text: 315 -->.css<!-- /react-text --></div>
<div class="gatsby-highlight" data-reactid="316"><pre class=" language-css" data-reactid="317"><code
data-reactid="318" class=" language-css"><span class="token selector">.button</span> <span class="token
punctuation">{</span>
  <span class="token property">padding</span><span class="token punctuation">:</span> .5rem<span
class="token punctuation">;</span>
  <span class="token property">margin-top</span><span class="token punctuation">:</span> .5rem<span
class="token punctuation">;</span>
  <span class="token property">border</span><span class="token punctuation">:</span> 1px solid
#2F79AD<span class="token punctuation">;</span>
  <span class="token property">border-radius</span><span class="token punctuation">:</span> 4px<span
class="token punctuation">;</span>
  <span class="token property">background-color</span><span class="token punctuation">:</span>
#6DB9EE<span class="token punctuation">;</span>
<span class="token punctuation">}</span>

<span class="token selector">.fun .button</span> <span class="token punctuation">{</span>
  <span class="token property">font-weight</span><span class="token punctuation">:</span> bold<span
class="token punctuation">;</span>
  <span class="token property">background</span><span class="token punctuation">:</span> <span
class="token function">linear-gradient</span><span class="token punctuation">(</span>
    90deg,
    #ff0000, #ffff00,
    #00ff00, #00ffff,
    #ff00ff, #ff0000
  <span class="token punctuation">)</span><span class="token punctuation">;</span>
<span class="token punctuation">}</span></code></pre></div></div><div class="src-guides-css-modules-by-
example----Widget-module---box---1cnIJ" data-reactid="319"><div class="src-guides-css-modules-by-
example----Widget-module---header---2qkr5" data-reactid="320">Generated CSS</div><div class="gatsby-
highlight" data-reactid="321"><pre class=" language-css" data-reactid="322"><code data-reactid="323"
class=" language-css"><span class="token selector">.Widget4_button_2Zuuj</span> <span class="token
punctuation">{</span>
  <span class="token property">padding</span><span class="token punctuation">:</span> .5rem<span
class="token punctuation">;</span>
  <span class="token property">margin-top</span><span class="token punctuation">:</span> .5rem<span
class="token punctuation">;</span>
  <span class="token property">border</span><span class="token punctuation">:</span> 1px solid
#2F79AD<span class="token punctuation">;</span>
  <span class="token property">border-radius</span><span class="token punctuation">:</span> 4px<span
class="token punctuation">;</span>
  <span class="token property">background-color</span><span class="token punctuation">:</span>
#6DB9EE<span class="token punctuation">;</span>
<span class="token punctuation">}</span>

<span class="token selector">.Widget4_fun_2c2WR .Widget4_button_2Zuuj</span> <span class="token
punctuation">{</span>
  <span class="token property">font-weight</span><span class="token punctuation">:</span> bold<span
class="token punctuation">;</span>
  <span class="token property">background</span><span class="token punctuation">:</span> <span
class="token function">linear-gradient</span><span class="token punctuation">(</span>
    90deg,
    #ff0000, #ffff00,
    #00ff00, #00ffff,
    #ff00ff, #ff0000
  <span class="token punctuation">)</span><span class="token punctuation">;</span>
<span class="token punctuation">}</span></code></pre></div></div></div><div class="src-guides-css-
modules-by-example----Widget-module---column---30Oo_" data-reactid="324"><div class="src-guides-css-
modules-by-example----Widget-module---box---1cnIJ" data-reactid="325"><div class="src-guides-css-
modules-by-example----Widget-module---header---2qkr5" data-reactid="326"><!-- react-text: 327 --
>Widget4<!-- /react-text --><!-- react-text: 328 -->.js<!-- /react-text --></div><div class="gatsby-
highlight" data-reactid="329"><pre class=" language-jsx" data-reactid="330"><code data-reactid="331"
class=" language-jsx"><span class="token keyword">import</span> React <span class="token
keyword">from</span> <span class="token string">'react'</span><span class="token punctuation">;</span>
<span class="token keyword">import</span> styles <span class="token keyword">from</span> <span
class="token string">'./Widget4.css'</span><span class="token punctuation">;</span>

<span class="token keyword">class</span> <span class="token class-name">Widget4</span> <span
class="token keyword">extends</span> <span class="token class-name">React<span class="token
punctuation">.</span>Component</span> <span class="token punctuation">{</span>
  <span class="token function">render</span><span class="token punctuation">(</span><span class="token
punctuation">)</span> <span class="token punctuation">{</span>
    <span class="token keyword">return</span> <span class="token punctuation">(</span>
      <span class="token tag"><span class="token tag"><span class="token punctuation">&lt;
</span>div</span><span class="token punctuation">&gt;</span></span>
        <span class="token tag"><span class="token tag"><span class="token punctuation">&lt;
</span>button</span>
          <span class="token attr-name">className</span><span class="token script language-javascript">
<span class="token punctuation">=</span><span class="token punctuation">{</span>styles<span
class="token punctuation">.</span>button<span class="token punctuation">}</span></span><span
class="token punctuation">&gt;</span></span>
          Regular Button
        <span class="token tag"><span class="token tag"><span class="token
punctuation">&lt;/</span>button</span><span class="token punctuation">&gt;</span></span>
        <span class="token tag"><span class="token tag"><span class="token punctuation">&lt;
</span>br</span><span class="token punctuation">/&gt;</span></span>
        <span class="token tag"><span class="token tag"><span class="token punctuation">&lt;
</span>div</span> <span class="token attr-name">className</span><span class="token script language-
javascript"><span class="token punctuation">=</span><span class="token punctuation">{</span>styles<span
class="token punctuation">.</span>fun<span class="token punctuation">}</span></span><span class="token
punctuation">&gt;</span></span>
          <span class="token tag"><span class="token tag"><span class="token punctuation">&lt;
</span>button</span>
            <span class="token attr-name">className</span><span class="token script language-
javascript"><span class="token punctuation">=</span><span class="token punctuation">{</span>styles<span
class="token punctuation">.</span>button<span class="token punctuation">}</span></span>
            <span class="token punctuation">&gt;</span></span>
            FUN BUTTON
          <span class="token tag"><span class="token tag"><span class="token
punctuation">&lt;/</span>button</span><span class="token punctuation">&gt;</span></span>
        <span class="token tag"><span class="token tag"><span class="token
punctuation">&lt;/</span>div</span><span class="token punctuation">&gt;</span></span>
      <span class="token tag"><span class="token tag"><span class="token
punctuation">&lt;/</span>div</span><span class="token punctuation">&gt;</span></span>
    <span class="token punctuation">)</span><span class="token punctuation">;</span>
  <span class="token punctuation">}</span>
<span class="token punctuation">}</span>
<span class="token keyword">export</span> <span class="token keyword">default</span> Widget4<span
class="token punctuation">;</span></code></pre></div></div></div></div>
```

BEM



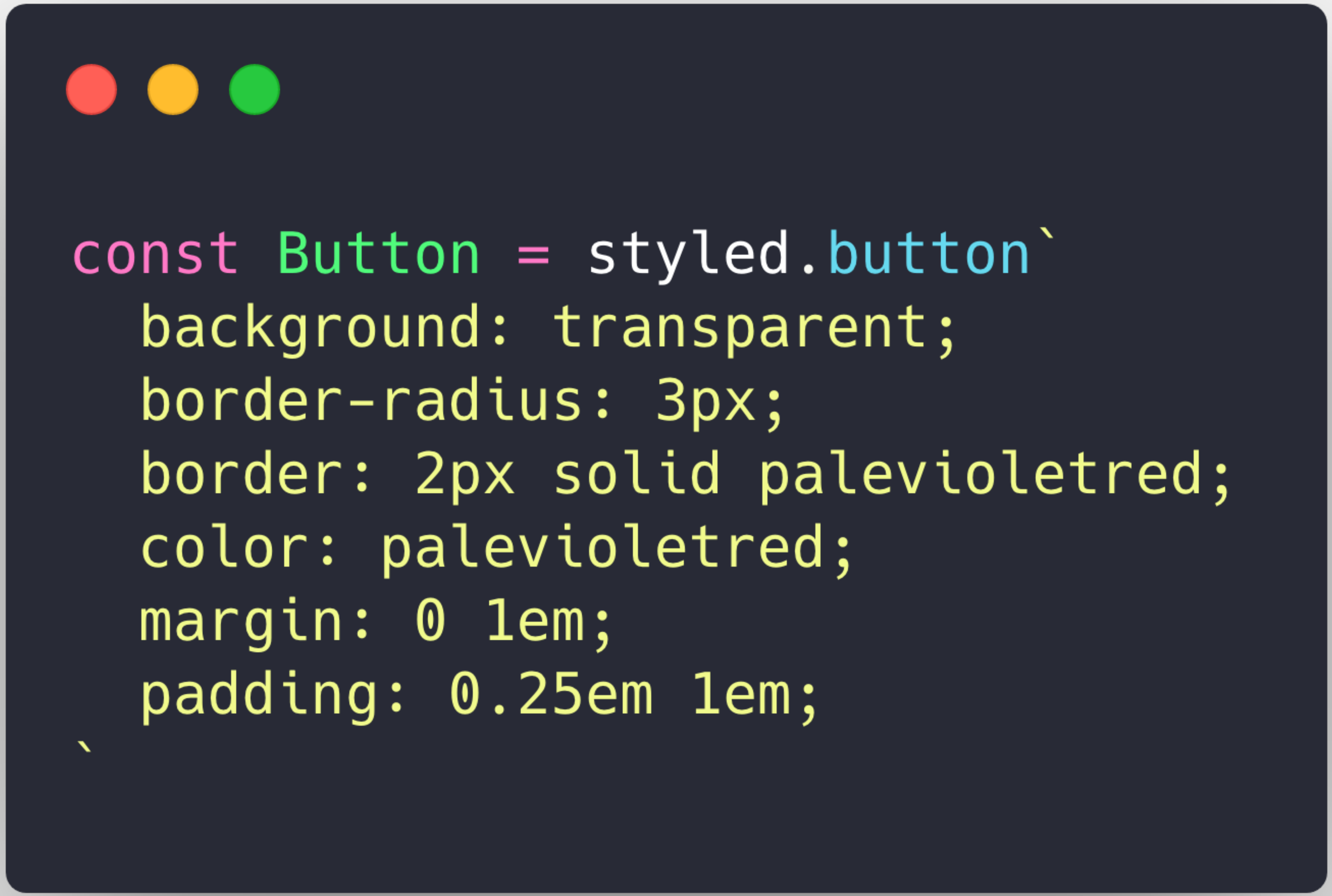
```
 <tbody>
      <tr class="b-layout-table__row">
         <td class="b-layout-table__cell b-blocks-desc__entity-data">
            <div class="b-layout-table__inner"><tt class="b-blocks-desc__entity-bemjson">{ block: 'i-bem' }</tt></div>
         </td>
         <td class="b-layout-table__cell b-layout-table__cell_position_r">
            <div class="b-text">
               <p class="b-text__p">Блок <tt>i-bem</tt> — это блок-хелпер, позволяющий создавать другие блоки. Блок реализован в технологиях <tt>BEMHTML</tt> и <tt>JS</tt>. Обе эти реализации являются ядром библиотеки блоков в соответствующих технологиях.</p>
               <h2 class="b-text__h2" id="jsrealizaciyablokaibem">js-реализация блока i-bem</h2>
               <p class="b-text__p">Реализация блока <tt>i-bem</tt> в <tt>JS</tt> обеспечивает хелперы для представления блока в виде <tt>JS</tt> объекта с определёнными методами и свойствами. Это нужно, чтобы писать клиентский <tt>JS</tt> в терминах <tt>BEM</tt>. То есть <tt>JS</tt> оперирует более высоким уровнем абстракции, чем <tt>DOM</tt> представление.</p>
               <p class="b-text__p">Для того, чтобы js-представление блока использовало ядро <tt>i-bem</tt>, оно должно быть написано с соблюдением специальных правил.</p>
               <h4 class="b-text__h4" id="Chtoopisanonaetojstranice">Что описано на этой странице?</h4>
               <ul class="b-text__ul">
                  <li class="b-text__li">
                     Какие бывают блоки
                     <ul class="b-text__ul">
                        <li class="b-text__li"><a class="b-link" href="#dom.blocks">Блоки с DOM-представлением</a></li>
                        <li class="b-text__li"><a class="b-link" href="#abstract.blocks">Блоки без DOM-представления</a></li>
                     </ul>
                  </li>
```



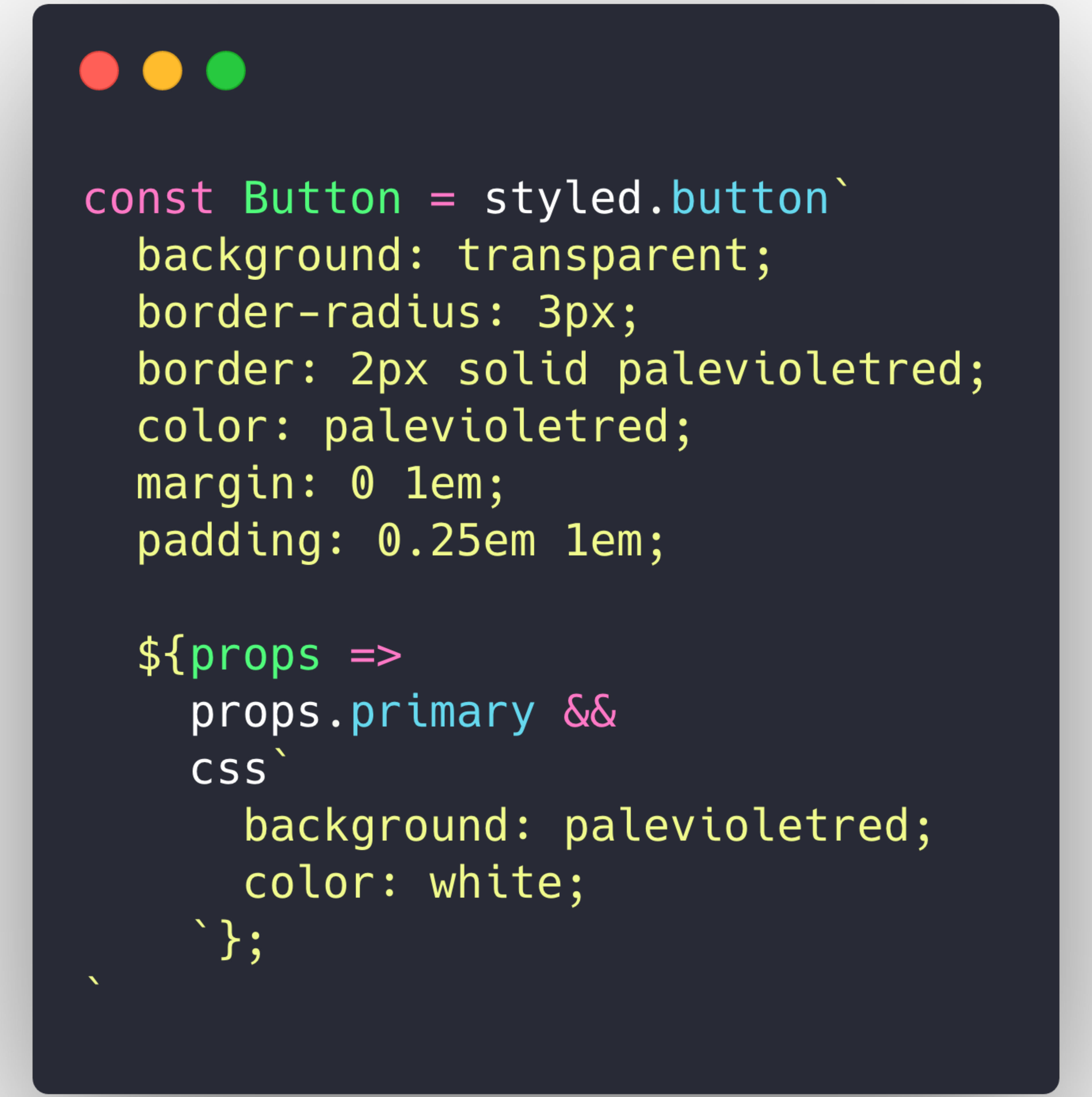
```
render(props, context) {
  const notes = this.props.notes;
  const style = {
    margin: '0.5em',
    paddingLeft: 0,
    listStyle: 'none'
  };

  return <ul style={style}>{notes.map(this.renderSomething)}</ul>;
}
```

styled components

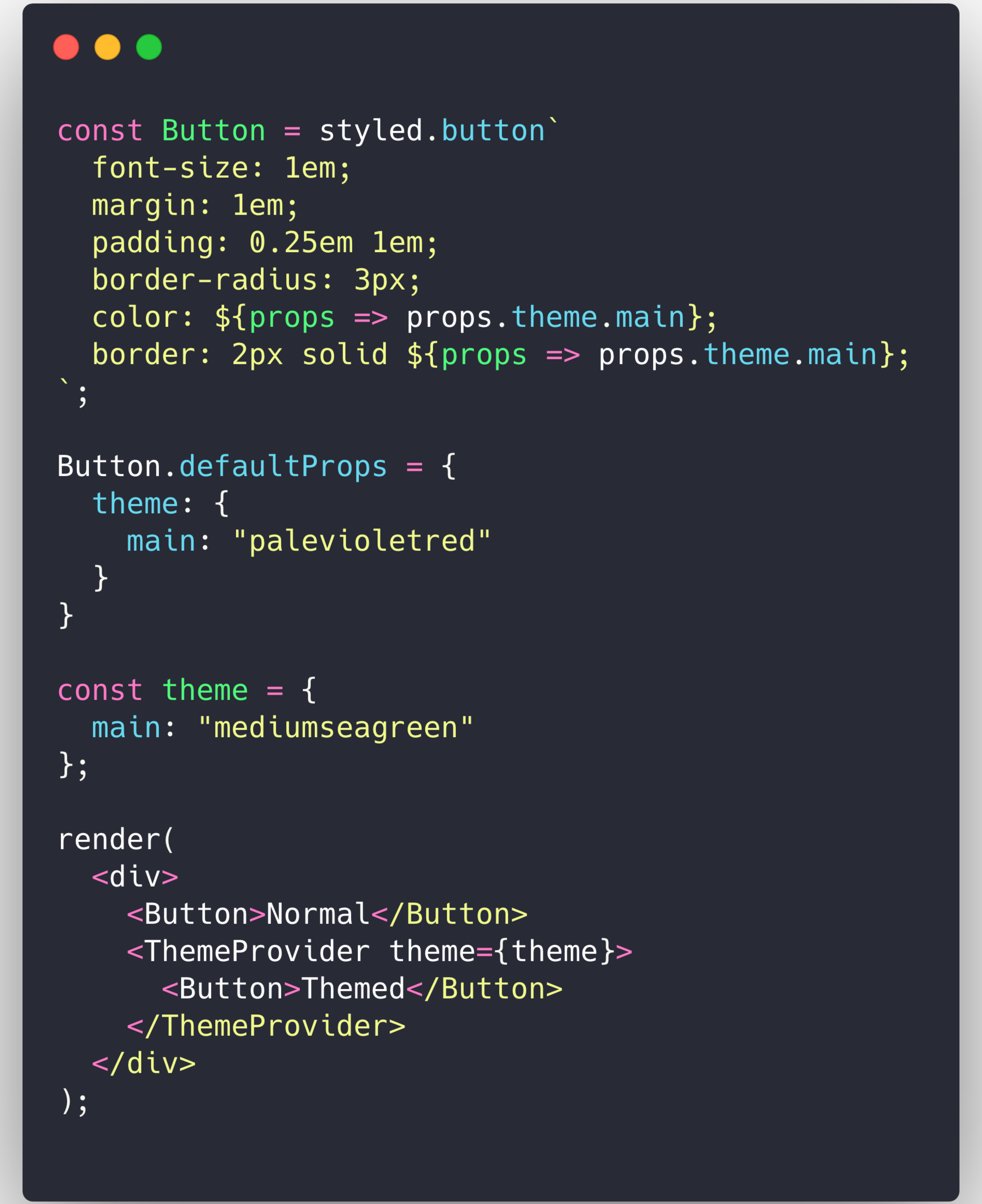
styled
components



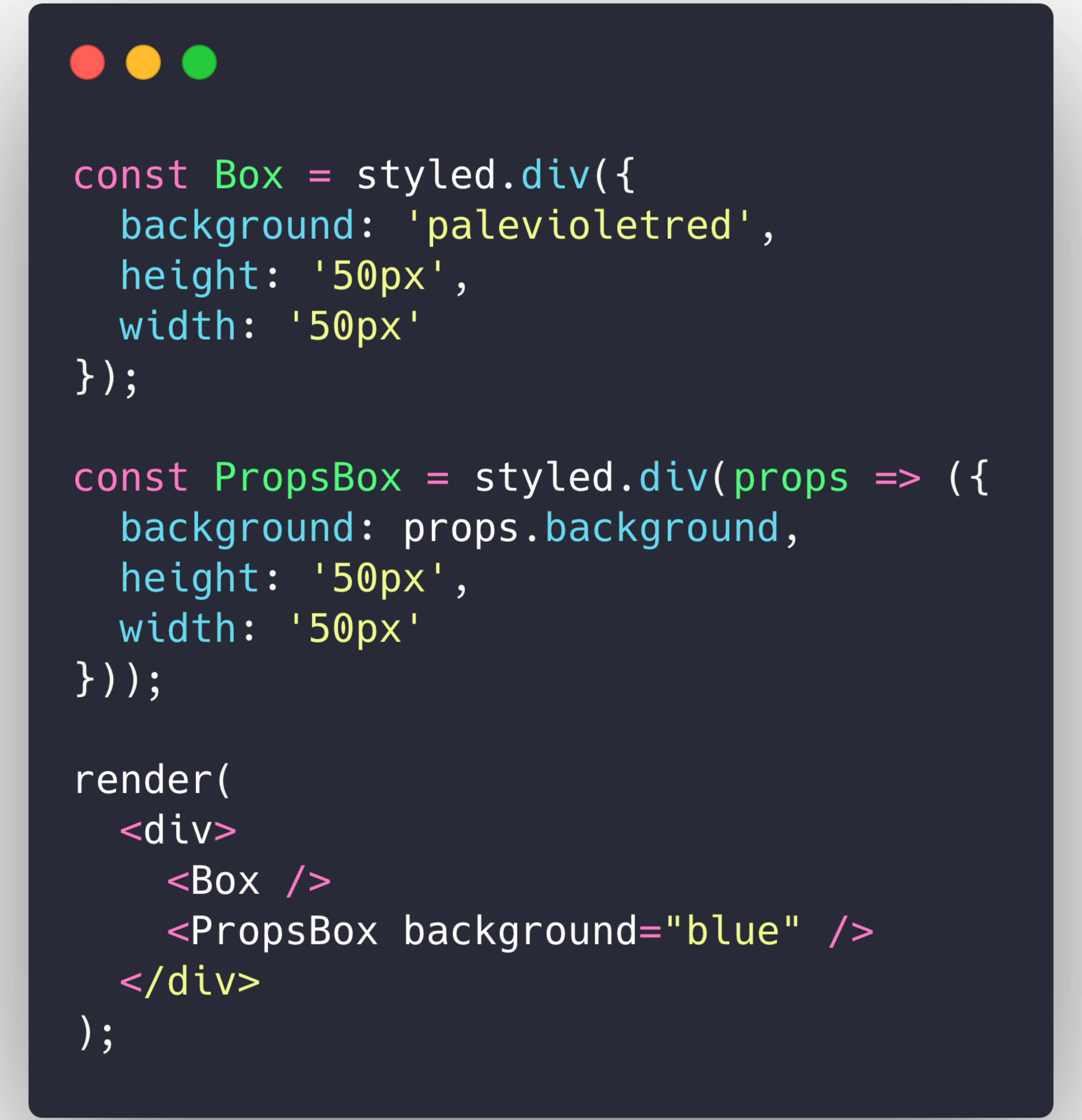
```
const Button = styled.button`
  background: transparent;
  border-radius: 3px;
  border: 2px solid palevioletred;
  color: palevioletred;
  margin: 0 1em;
  padding: 0.25em 1em;
`
```



```
const Button = styled.button`
  background: transparent;
  border-radius: 3px;
  border: 2px solid palevioletred;
  color: palevioletred;
  margin: 0 1em;
  padding: 0.25em 1em;

  ${props =>
    props.primary &&
    css`
      background: palevioletred;
      color: white;
    `};
`
```



```
const Button = styled.button`
  font-size: 1em;
  margin: 1em;
  padding: 0.25em 1em;
  border-radius: 3px;
  color: ${props => props.theme.main};
  border: 2px solid ${props => props.theme.main};
`;

Button.defaultProps = {
  theme: {
    main: "palevioletred"
  }
}

const theme = {
  main: "mediumseagreen"
};

render(
  <div>
    <Button>Normal</Button>
    <ThemeProvider theme={theme}>
      <Button>Themed</Button>
    </ThemeProvider>
  </div>
);
```



```
const Box = styled.div({
  background: 'palevioletred',
  height: '50px',
  width: '50px'
});

const PropsBox = styled.div(props => ({
  background: props.background,
  height: '50px',
  width: '50px'
}));

render(
  <div>
    <Box />
    <PropsBox background="blue" />
  </div>
);
```

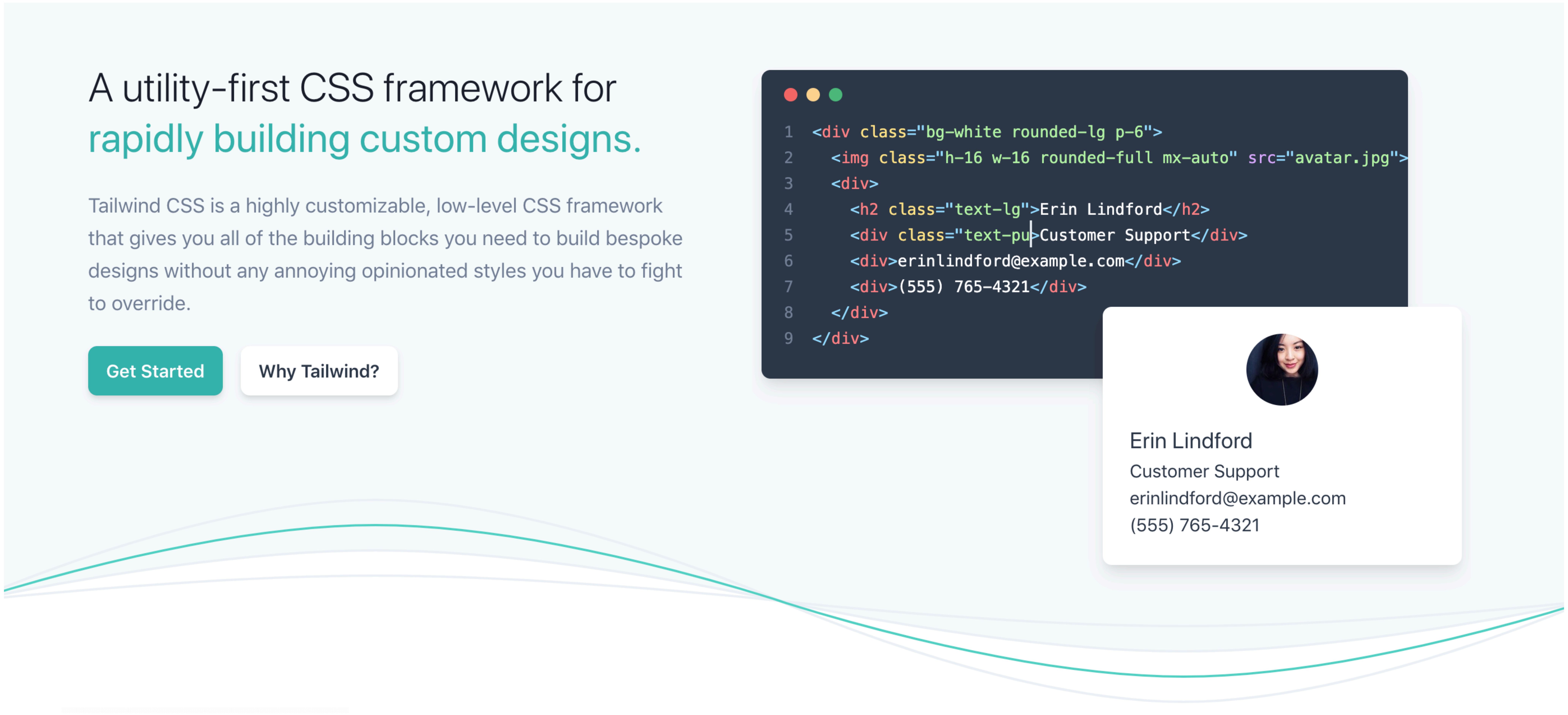
Colors 🎨

Font-sizes 🎢

Font-family 👁

Margins/Paddings 🏍

....

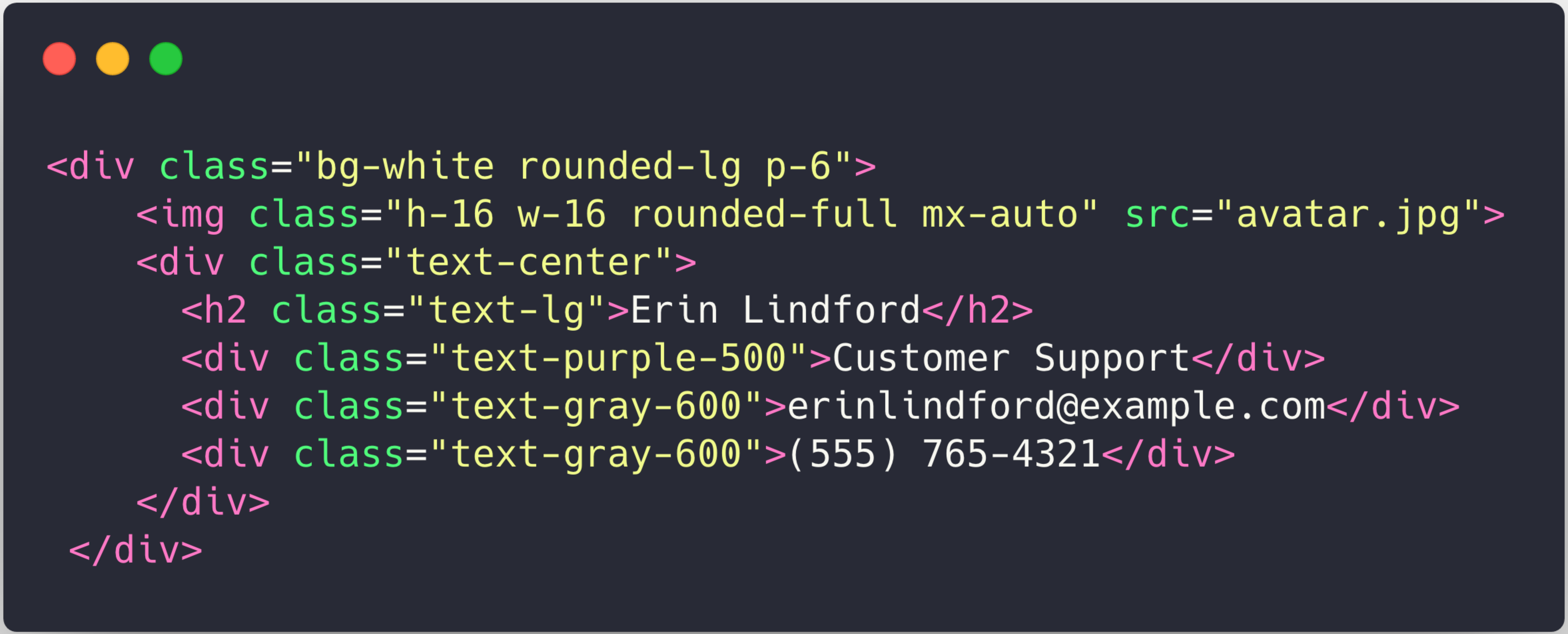


A utility-first CSS framework for rapidly building custom designs.

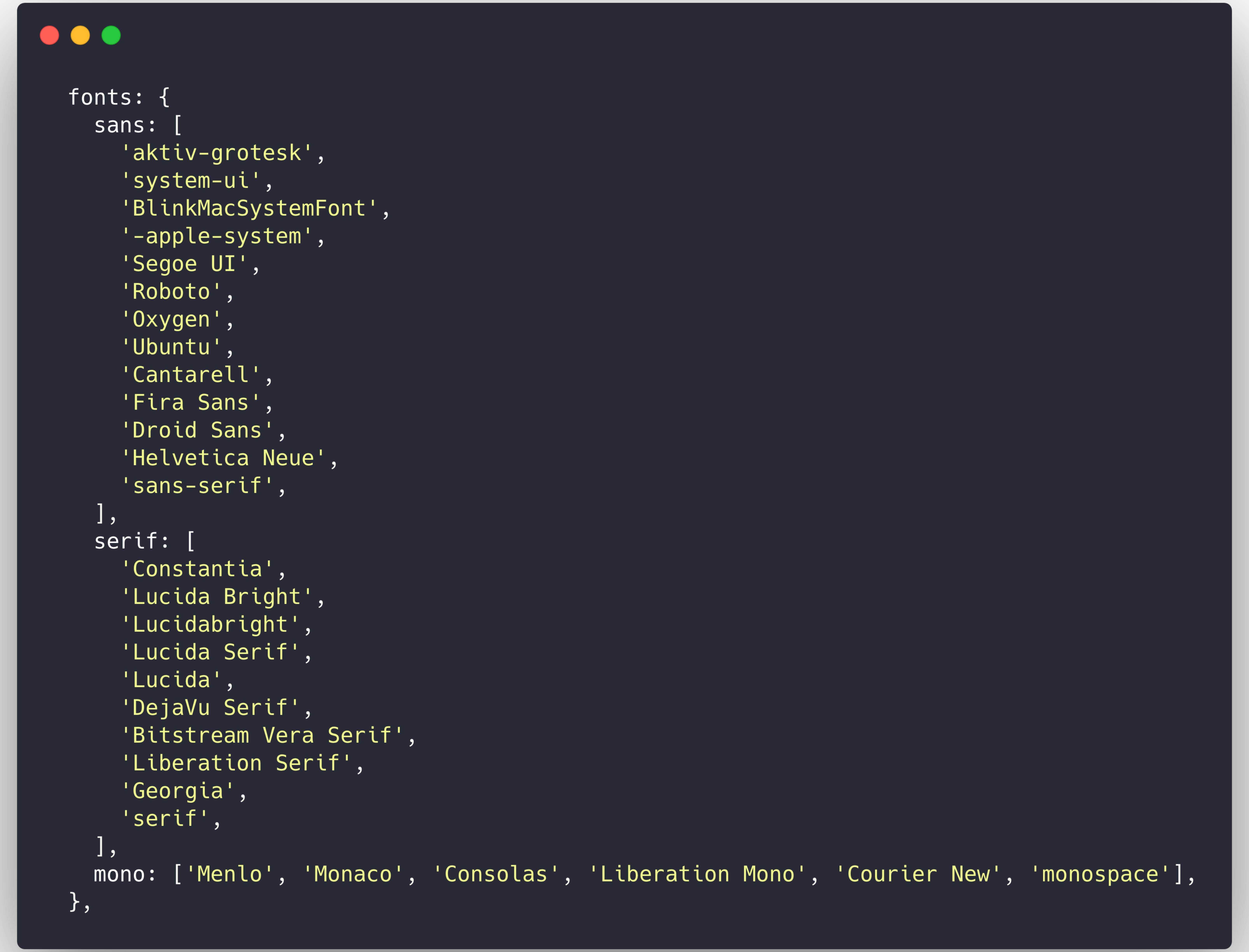
Tailwind CSS is a highly customizable, low-level CSS framework that gives you all of the building blocks you need to build bespoke designs without any annoying opinionated styles you have to fight to override.

```
<div class="bg-white rounded-lg p-6">
  <img class="h-16 w-16 rounded-full mx-auto" src="avatar.jpg">
  <div>
    <h2 class="text-lg">Erin Lindford</h2>
    <div class="text-pu>Customer Support</div>
    <div>erinlindford@example.com</div>
    <div>(555) 765-4321</div>
  </div>
</div>
```

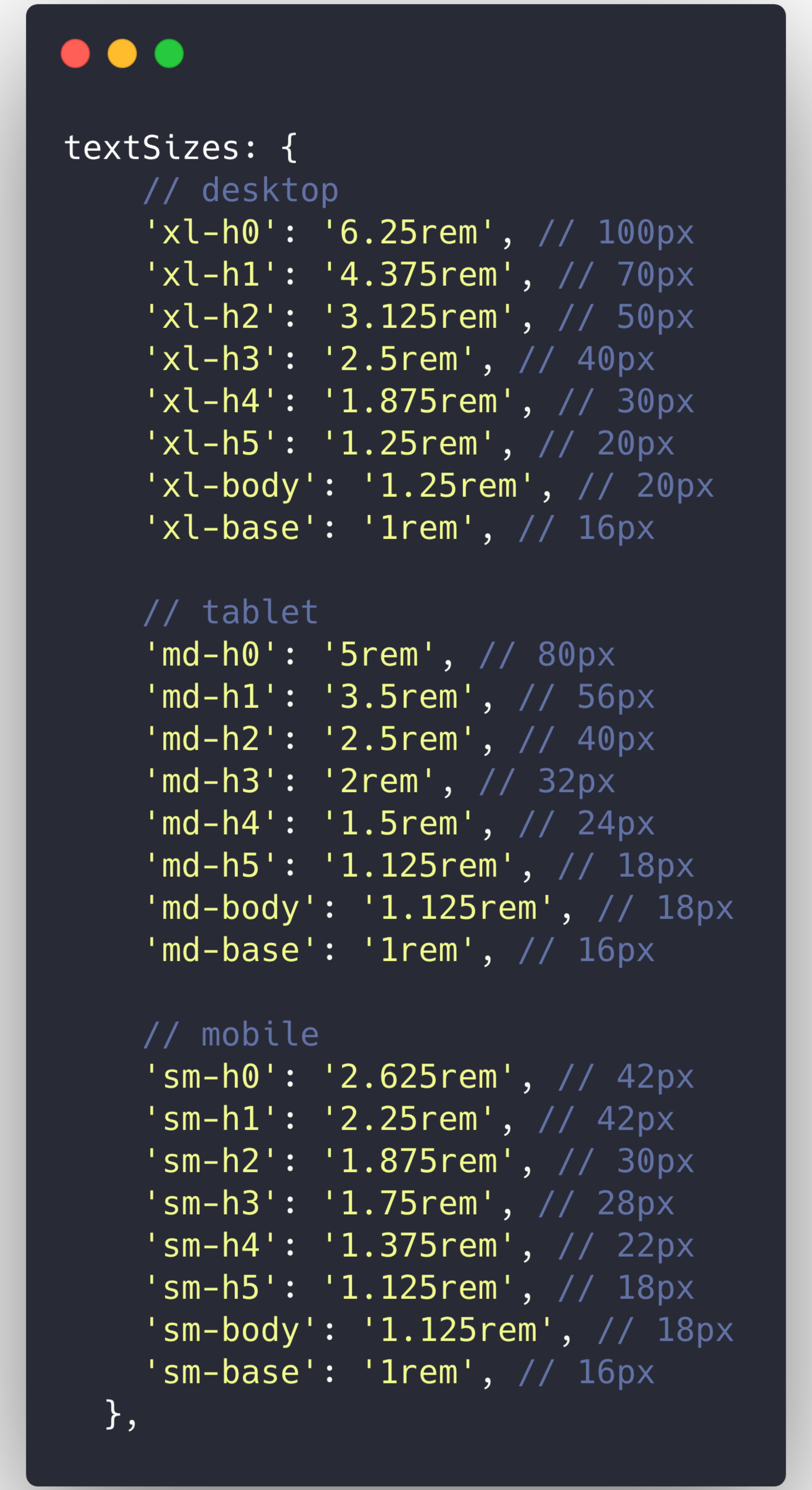
Erin Lindford
Customer Support
erinlindford@example.com
(555) 765-4321

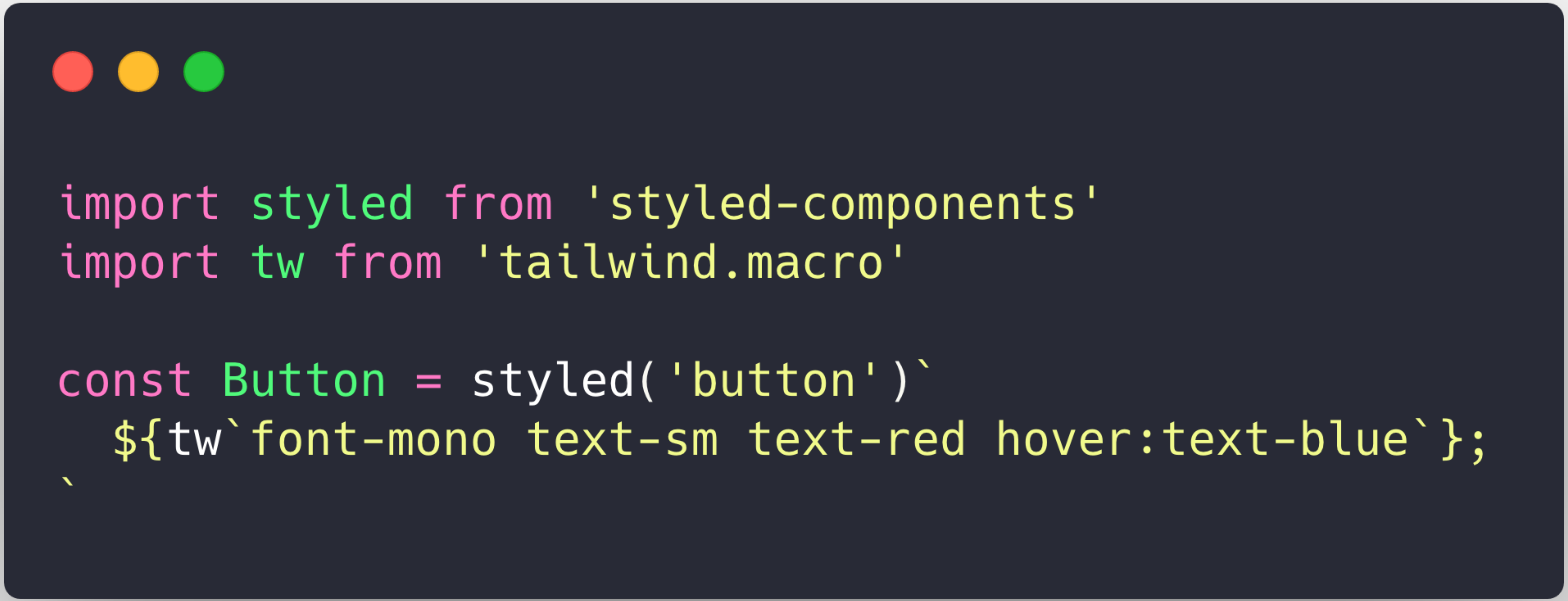


```html
<div class="bg-white rounded-lg p-6">
    <img class="h-16 w-16 rounded-full mx-auto" src="avatar.jpg">
    <div class="text-center">
      <h2 class="text-lg">Erin Lindford</h2>
      <div class="text-purple-500">Customer Support</div>
      <div class="text-gray-600">erinlindford@example.com</div>
      <div class="text-gray-600">(555) 765-4321</div>
    </div>
 </div>
```



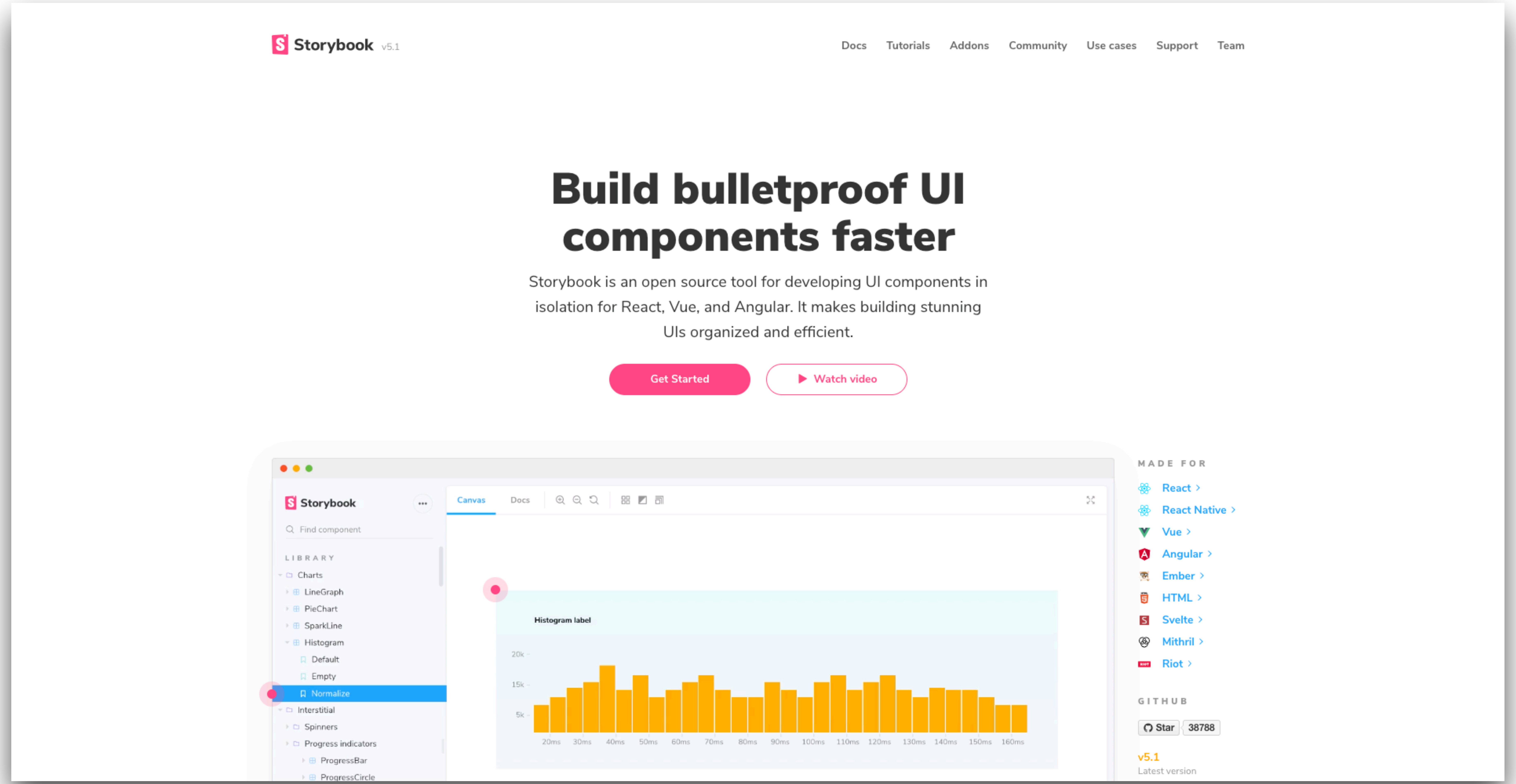
```
fonts: {
  sans: [
    'aktiv-grotesk',
    'system-ui',
    'BlinkMacSystemFont',
    '-apple-system',
    'Segoe UI',
    'Roboto',
    'Oxygen',
    'Ubuntu',
    'Cantarell',
    'Fira Sans',
    'Droid Sans',
    'Helvetica Neue',
    'sans-serif',
  ],
  serif: [
    'Constantia',
    'Lucida Bright',
    'Lucidabright',
    'Lucida Serif',
    'Lucida',
    'DejaVu Serif',
    'Bitstream Vera Serif',
    'Liberation Serif',
    'Georgia',
    'serif',
  ],
  mono: ['Menlo', 'Monaco', 'Consolas', 'Liberation Mono', 'Courier New', 'monospace'],
},
```


```
textSizes: {
    // desktop
    'xl-h0': '6.25rem', // 100px
    'xl-h1': '4.375rem', // 70px
    'xl-h2': '3.125rem', // 50px
    'xl-h3': '2.5rem', // 40px
    'xl-h4': '1.875rem', // 30px
    'xl-h5': '1.25rem', // 20px
    'xl-body': '1.25rem', // 20px
    'xl-base': '1rem', // 16px

    // tablet
    'md-h0': '5rem', // 80px
    'md-h1': '3.5rem', // 56px
    'md-h2': '2.5rem', // 40px
    'md-h3': '2rem', // 32px
    'md-h4': '1.5rem', // 24px
    'md-h5': '1.125rem', // 18px
    'md-body': '1.125rem', // 18px
    'md-base': '1rem', // 16px

    // mobile
    'sm-h0': '2.625rem', // 42px
    'sm-h1': '2.25rem', // 42px
    'sm-h2': '1.875rem', // 30px
    'sm-h3': '1.75rem', // 28px
    'sm-h4': '1.375rem', // 22px
    'sm-h5': '1.125rem', // 18px
    'sm-body': '1.125rem', // 18px
    'sm-base': '1rem', // 16px
  },
```



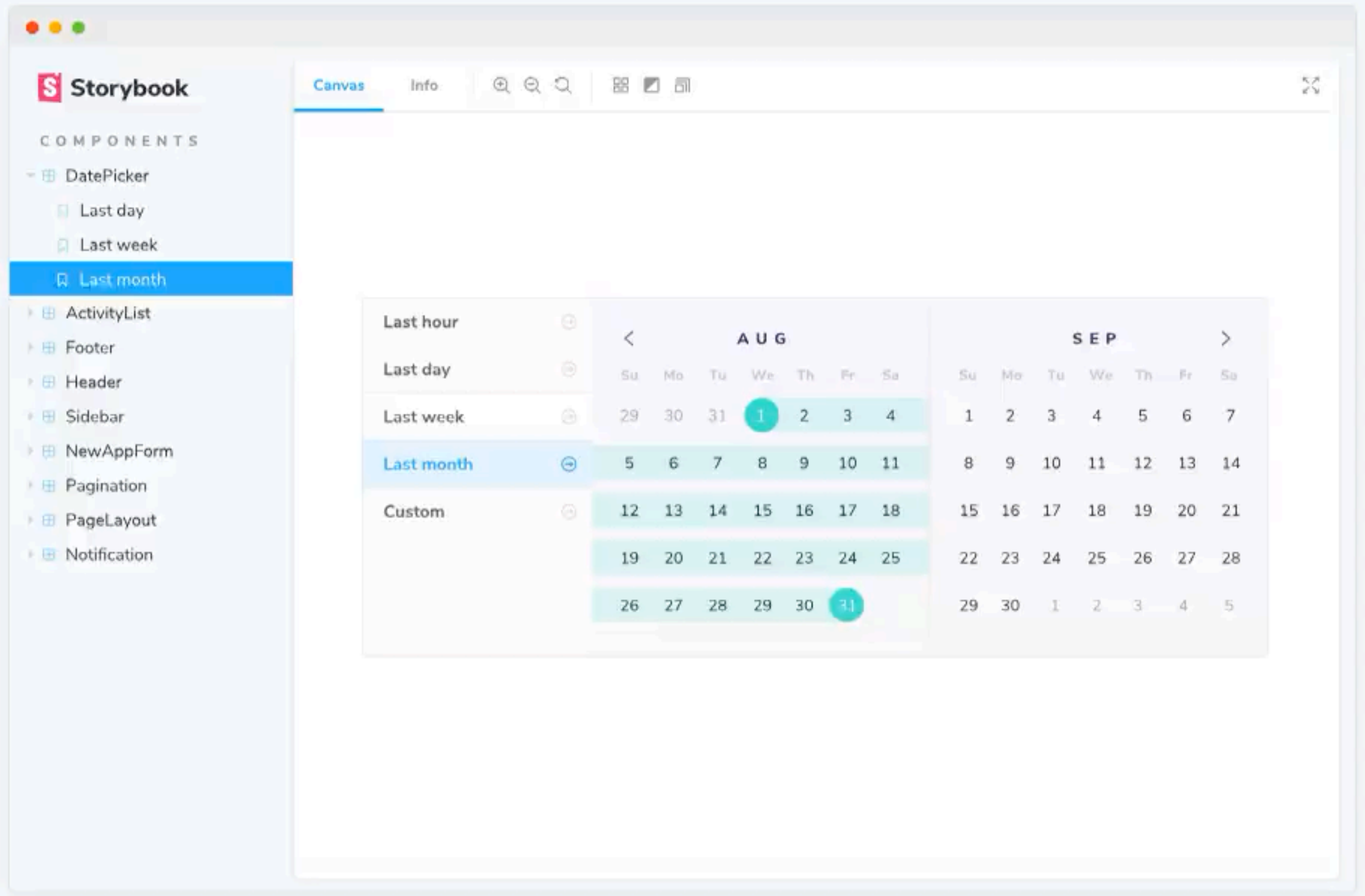
```
import styled from 'styled-components'
import tw from 'tailwind.macro'

const Button = styled('button')`
  ${tw`font-mono text-sm text-red hover:text-blue`};
`
```

Sandbox 🏗️

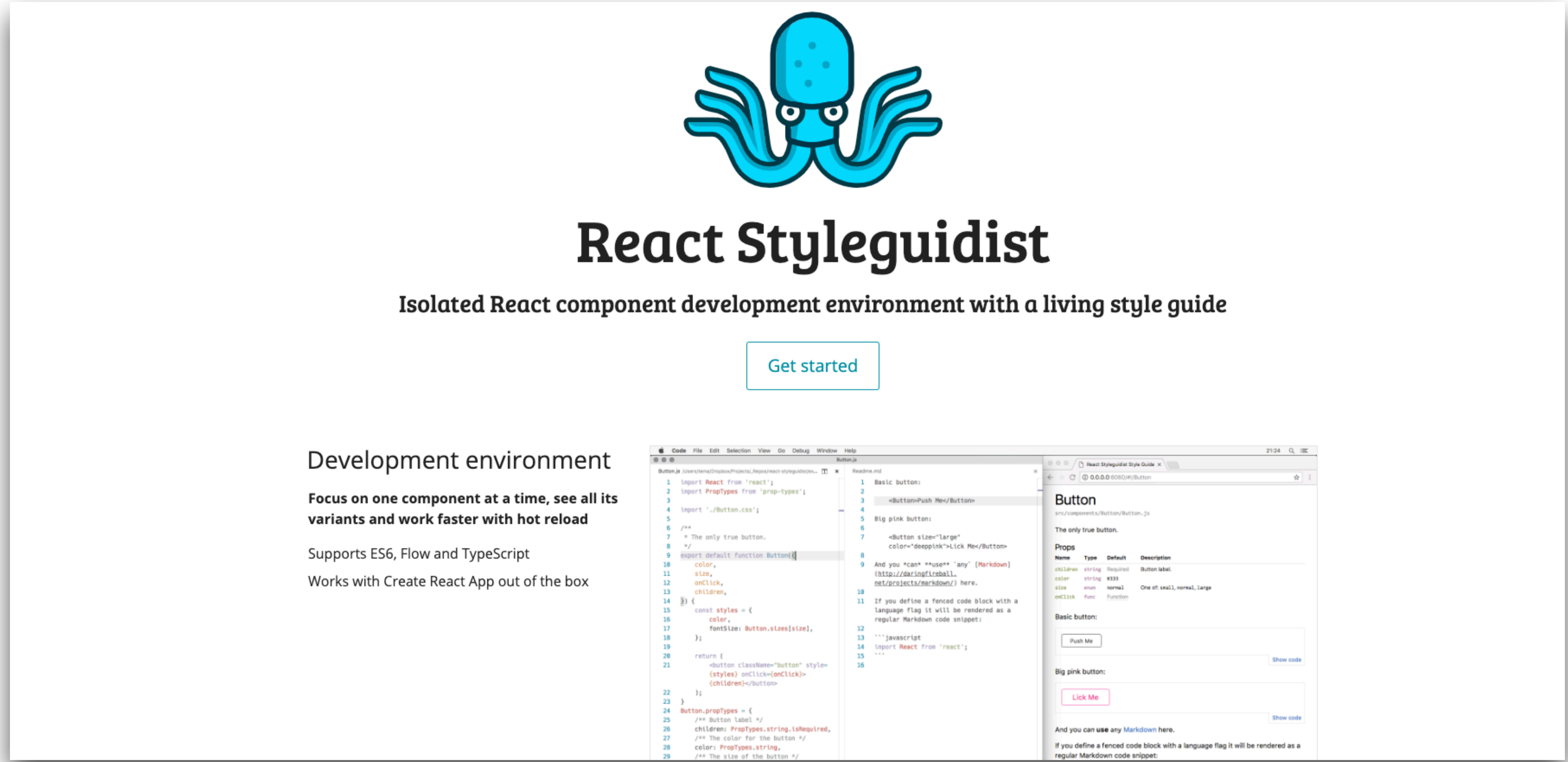


Build bulletproof UI components faster

Storybook is an open source tool for developing UI components in isolation for React, Vue, and Angular. It makes building stunning UIs organized and efficient.



Visual test components



React Styleguidist

Isolated React component development environment with a living style guide

Development environment

Focus on one component at a time, see all its variants and work faster with hot reload

Supports ES6, Flow and TypeScript

Works with Create React App out of the box

Code File Edit Selection View Go Debug Window Help
Button.js
Readme.md
21:24
React Styleguidist Style Guide
0.0.0.0:6060/#!/Button

```
import React from 'react';
import PropTypes from 'prop-types';

import './Button.css';

/**
 * The only true button.
 */
export default function Button({
    color,
    size,
    onClick,
    children,
}) {
    const styles = {
        color,
        fontSize: Button.sizes[size],
    };

    return (
        <button className="button" style=
        {styles} onClick={onClick}>
        {children}</button>
    );
}
Button.propTypes = {
    /** Button label */
    children: PropTypes.string.isRequired,
    /** The color for the button */
    color: PropTypes.string,
    /** The size of the button */
```

~~~
Basic button:

    <Button>Push Me</Button>

Big pink button:

    <Button size="large"
    color="deeppink">Lick Me</Button>

And you *can* **use** `any` [Markdown]
(http://daringfireball.
net/projects/markdown/) here.

If you define a fenced code block with a
language flag it will be rendered as a
regular Markdown code snippet:

```javascript
import React from 'react';
```
~~~

Button

src/components/Button/Button.js

The only true button.

Props

Name	Type	Default	Description
children	string	Required	Button label.
color	string	#333	
size	enum	normal	One of: small, normal, large
onClick	func	Function	

Basic button:

Big pink button:

And you can **use** any Markdown here.

If you define a fenced code block with a language flag it will be rendered as a regular Markdown code snippet:

SANDBOX STYLEGUIDIST

tailwind

styled components

React Styleguidist

Thank you 🍻

https://t.me/droptarget