

Styling In React with Styled-System

SidoarjoDev Meetup 2020

A photograph of a man in a green t-shirt and khaki pants standing on a stage, addressing a large audience seated in a modern hall with a glass-paneled wall. The speaker is holding a microphone and gesturing. The audience is diverse and attentive. The floor has a colorful patterned carpet. A large black speaker is visible on the stage.

MUHAMMAD NAUFAL RABBANI

Frontend Engineer at Warung Pintar

Sidoarjo

[Pull requests](#) [Issues](#) [Gist](#)

github.com/BosNaufal

Sidoarjo, East Java, Indonesia

⌚ Joined on Apr 24, 2015

 Overview

 [Edit profile](#)

Popular repositories



vue-loading-bar



vue-freeze



Autocross Content

51 ★



vue-minn shop

51 ★



vue-simple-store

213 contributions in the last year

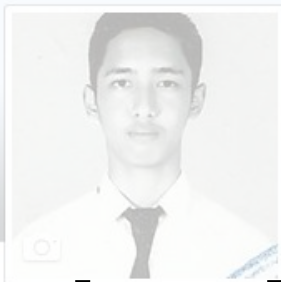


Muhammad Naufal Rabbani



Muhammad Naufal

Home



Muhammad Naufal
Rabbani
(Bos Naufal)

Update Info ²

View Activity Log ⁶



Timeline

About

Friends 600

Photos

More

facebook.com/BosNaufalAccount



Muhammad Naufal, where did you go to college?

8/9 complete



Airlangga University

Hanny Valrien Navaly, Jaka Aji Surya and 5 other friends studied here



Indonesia Computer University (UNIKOM)

Rangga Djatikusuma Lukman studied here



Status



Photo / Video



Life Event

What's on your mind?



Adrianus Yoza Aprilio with Zaenal Arifin and 17 others.

August 31 at 7:07am · 🌐 ▼

Untuk yang sudah mendaftar, pastikan datang tepat waktu tanggal 4 besok 😊
Merchandise menunggu untuk N peserta yang datang pertama dan tepat waktu

Problems with CSS at scale...

Name Collisions

Name Collisions

It's hard to find a unique name

Everything is just a **component**

```
.MyComponent .title {  
  color:  red;  
}
```

```
<div className="MyComponent">  
  <div className="title"></div>  
</div>
```



```
.MyComponent .title {  
  color:  red;  
}  
  
.OtherComponent .title {  
  color:  blue;  
}
```

```
<div className="MyComponent">  
  <div className="OtherComponent">  
    <div className="title"></div>  
  </div>  
</div>
```

Solution: **BEM**

```
.Component-part--modifier {  
  color:  white;  
}
```

```
.MyComponent-title {  
  color:  red;  
}
```

```
.OtherComponent-title {  
  color:  blue;  
}
```

```
<div className="MyComponent">  
  <div className="OtherComponent">  
    <div className="OtherComponent-title"></div>  
  </div>  
</div>
```

```
.MyComponent-list_item_header_title {  
  color: ■ black;  
}
```

```
.MyComponent-list_item_header_title--active {  
  color: ■ blue;  
}
```

Problems with CSS using BEM...

PANJANG...

Capek ngetik

File Size Cenderung Besar

Styling Methods





CSS MODULES

```
.foo {  
  color:  white;  
}
```



```
.bar {  
  color:  black;  
}
```


CSS MODULES

```
import styles from './MyComponent.css';
import React, { Component } from 'react';

export default class MyComponent extends Component {
  render() {
    return (
      <div>
        <div className={styles.foo}>Foo</div>
        <div className={styles.bar}>Bar</div>
      </div>
    );
  }
}
```

CSS MODULES

```
• _23_aKvs-b8bW2Vg3fwHoz0 { color:  white; }  
• _13LGdX8RMStbBE9w-t0gZ1 { color:  black; }
```

```
<div>  
  <div class="_23_aKvs-b8bW2Vg3fwHoz0">Foo</div>  
  <div class="_13LGdX8RMStbBE9w-t0gZ1">Bar</div>  
</div>
```



Kelebihan:

- Bisa menggunakan CSS dan CSS preprocessor
- Terbebas dari issue global namespace
- Mudah dalam penulisan aturan responsif

Kekurangan:

- Harus membuka minimal 2 file untuk melakukan styling





```
import React from 'react'
import injectSheet from 'react-jss'

const styles = {
  bar: {
    color: 'white'
  },
  foo: {
    color: 'black'
  }
}

const Sidebar = ({classes, children}) => (
  <div className={classes.sidebar}>
    <div className={classes.foo}>Foo</div>
    <div className={classes.bar}>Bar</div>
    <Message />
  </div>
)

export default injectSheet(styles)(Sidebar)
```



```
.foo-3940538223 {  
  color:  white;  
}  
  
.bar-2645419599 {  
  color:  black;  
}
```

```
<div class="sidebar-3940538223">  
  <div class="foo-3940538223">Foo</div>  
  <div class="bar-2645419599">Bar</div>  
  <div class="message-3657395234">  
    <div class="name-9536234573">User Name</div>  
    <div class="body-3495367325">Body Message</div>  
  </div>  
</div>
```



```
import React from 'react'
import injectSheet, {ThemeProvider} from 'react-jss'
```

```
+ const styles = {...
```

```
const theme = {
  isDarkMode: true
}
```

```
const Sidebar = ({classes, children}) => (
  <div className={classes.sidebar}>
    <div className={classes.foo}>Foo</div>
    <div className={classes.bar}>Bar</div>
    <ThemeProvider theme={theme}>
      <Message />
    </ThemeProvider>
  </div>
)
```

```
export default injectSheet(styles)(Sidebar)
```



```
const styles = theme => ({
  outer: {
    background: theme.isDarkMode ? 'black' : 'white',
    color: theme.isDarkMode ? 'white' : 'black',
  },
})
```

```
const Message = ({classes, children}) => (
  <div className={classes.outer}>
    <div className={classes.user}>Foo</div>
    <div className={classes.body}>Bar</div>
  </div>
)
```

```
export default injectSheet(styles)(Message)
```




Kelebihan:

- Hanya perlu membuka satu file untuk styling
- Terbebas dari issue global namespace
- Bisa sharing variable
- Bisa share styling dengan react native

Kekurangan:

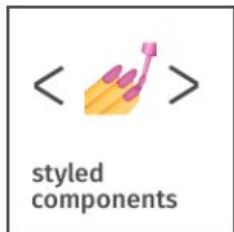
- Menggunakan Javascript, bukan CSS



styled
components



```
const Title = styled.h1`  
  font-size: 1.5em;  
  text-align: center;  
  color: palevioletred;  
  
  span {  
    color: black;  
    font-size: 0.8em;  
  }  
  
  &:hover {  
    color: ${props => props.mainColor};  
  }  
`;  
`;
```



```
import React from 'react';
import styled from 'styled-components';

const SidebarWrapper = styled.sidebar`
  background: white;
`;

const Foo = styled.div`
  color: white;
`;

const Bar = styled.div`
  color: black;
`;

const Sidebar = () => (
  <SidebarWrapper>
    <Foo>Foo</Foo>
    <Bar>Bar</Bar>
  </SidebarWrapper>
)

export default Sidebar;
```



styled
components

```
.gzMTbAscs { color: □white; }  
.FcdggAdwcas { color: ■black; }  
.sc-bwzfXH { background: ■black; color: □white; }
```

```
<div class="sc-bwzfXH">  
  <div class="gzMTbAscs">Foo</div>  
  <div class="FcdggAdwcas">Bar</div>  
</div>
```



styled
components

```
const theme = {  
  isDarkMode: true  
}  
  
const Sidebar = () => (  
  <SidebarWrapper>  
    <Foo>Foo</Foo>  
    <Bar>Bar</Bar>  
    <ThemeProvider theme={theme}>  
      <Message />  
    </ThemeProvider>  
  </SidebarWrapper>  
)
```



styled
components

```
const MessageOuter = styled.sidebar`  
  background: ${props => props.theme.isDarkMode? 'black' : 'white'};  
  color: ${props => props.theme.isDarkMode? 'white' : 'black'};  
`;  
  
const Message = () => (  
  <MessageOuter>  
    <UserName>User Name</UserName>  
    <Body>Body</Body>  
  </MessageOuter>  
)
```



Kelebihan:

- Hanya perlu membuka satu file untuk styling
- Terbebas dari issue global namespace
- Bisa sharing variable
- Bisa menggunakan Mixin
- Menggunakan Pure CSS
- Bisa share styling dengan react native

Kekurangan:

- Harus styling per elemennya
- Memakan namespace komponen

Problems with Styled Component

- Props Styled component yang **tidak konsisten**
- Bagaimana cara membuat **Style menjadi konsisten?**
- Bagaimana cara membuat **Responsivenya?**



TERIMA KASIH!

Sampai Jumpa Di Event-Event Berikutnya~