

Kickstarting a
React based **Design System**
with **Styled-System** and **Emotion**

Front End Small Talk

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4 building blocks of a Design System

Design Language

Design Kit

Sandbox

Documentation

Core Utilities in Styled-System

```
import styled from '@emotion/styled'  
import { color } from 'styled-system'  
import { space } from 'styled-system'
```

```
const Box = styled.div(color);  
const Card = styled.div(space);
```

```
<Box color="white" bg="green">  
  A green box  
</Box>
```

```
<Card p={4} marginTop={2}>  
  A card with 32px padding  
  and 10px margin top  
</Box>
```

Using multiple utilities

```
import styled from '@emotion/styled'
import { color, space } from 'styled-system'

const Message = styled.div(
  {},
  color,
  space
);
```

```
<Message
  color="white"
  bg="green"
  p={4}
>
  A green box with 32px padding
</Message>
```

Using CSS in JS

```
import styled from '@emotion/styled'  
import { color, space } from 'styled-system'
```

```
const SmallBox = styled.div(  
  {  
    maxWidth: '20%'  
  },  
  color,  
  space  
);
```

```
import styled from '@emotion/styled'  
import { color, space } from 'styled-system'
```

```
const Button = styled.button(  
  {  
    ':hover': {  
      cursor: 'pointer',  
    }  
  },  
  color,  
  space  
);
```

Default Props

```
import styled from '@emotion/styled'  
import { color } from 'styled-system'
```

```
const Error = styled.div(  
  {fontStyle: 'italic'},  
  color  
);
```

```
Error.defaultProps = {  
  color: 'red'  
}
```

```
<Error color="orange" bg="black">
```

```
  A custom error
```

```
</Box>
```

```
<Error>
```

```
  A default error
```

```
</Box>
```

Themes

```
const breakpoints = [500, 900].map(n => n + 'px')

const theme = {
  fontSizes : [12, 14, 16, 20, 24, 32], //scales
  fontWeights: {
    medium: 500,
    heavy: 800,
  },
  colors: {
    lightYellow: '#ffc228',
    text: 'black',
  },
  breakpoints,
}

export default theme
```

```
import { ThemeProvider } from 'emotion-theming'
import theme from './theme';

<ThemeProvider theme={theme}>
  <Header
    bg="lightYellow"
    fontWeight="heavy"
    fontSize={[ 3, 5 ]}
    p="4">
    Using themes
  </Header>
</ThemeProvider>
```

Talk Code Samples:

<https://stackblitz.com/edit/styled-system-talk>

References:

<https://styled-system.com>

<https://varun.ca/what-is-a-design-system/>