Styled Components

W12d3 – extra session from Helena

Styled-components allows you to use CSS in your JavaScript. It uses SASS so you can nest components inside.

Store this in a variable e.g. StyledButton
Call the library, then a . then whatever html you want e.g. styled.button
Then open a string with backticks and add CSS
Call the styled component instead of the JSX e.g. <StyledButton/>

Using functions to dynamically render a component that can be individually styled:

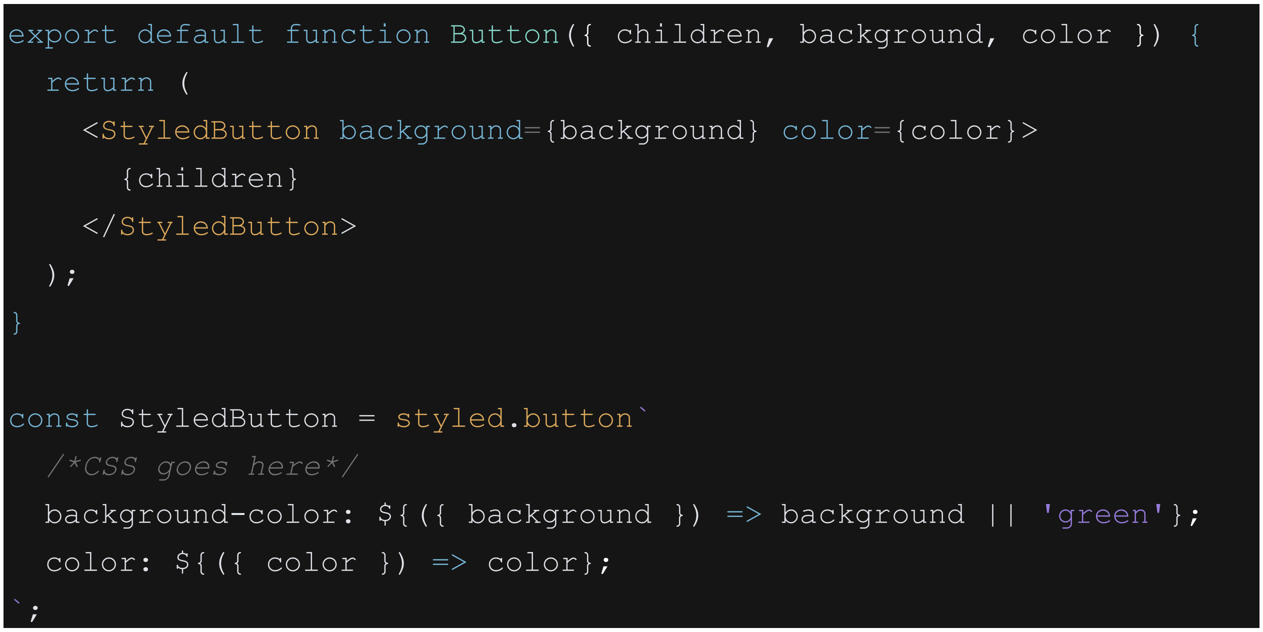
So app.js and button.js:

App.js

```
import Button from "./component/Button";
export default function App() {
  return (
    <>
      <p>Hello world</p>
      <Button background="red" color="green">
        Hello from button 1
      </Button>
      <Button background="yellow">Hello from button 2</Button>
      <Button background="blue">Hello from button 3</Button>
      <Button>Boring Button</Button>
    </>
  );
}
```

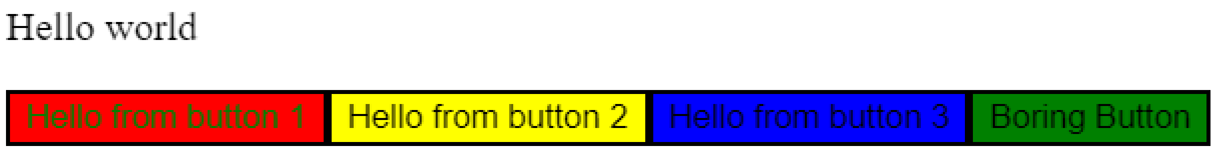
Button.js

```
import styled from "styled-components";
```



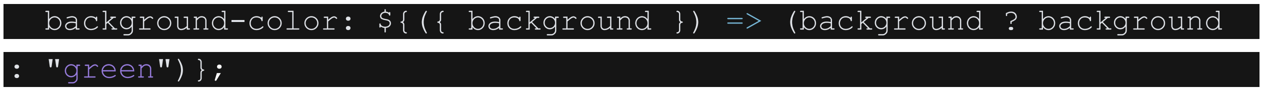
```
export default function Button({ children, background, color }) {
  return (
    <StyledButton background={background} color={color}>
      {children}
    </StyledButton>
  );
}

const StyledButton = styled.button`
  /*CSS goes here*/
  background-color: ${({ background }) => background || 'green'};
  color: ${({ color }) => color};
`;
```



Hello world

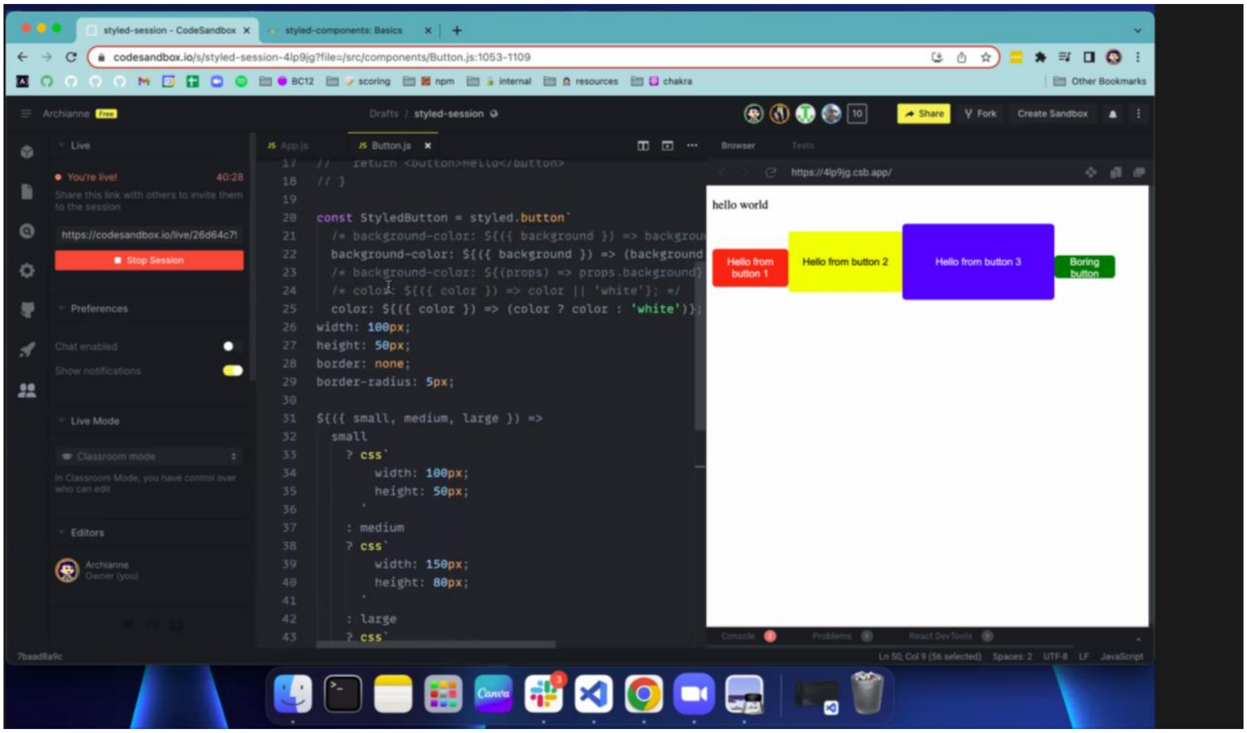
Can add fallback colour for default via the double pipe || as above or use ternary operator like this:



```
  background-color: ${({ background }) => (background ? background
: "green")};
```

Using ternary operator allows you to properly check if there is a background prop or not!

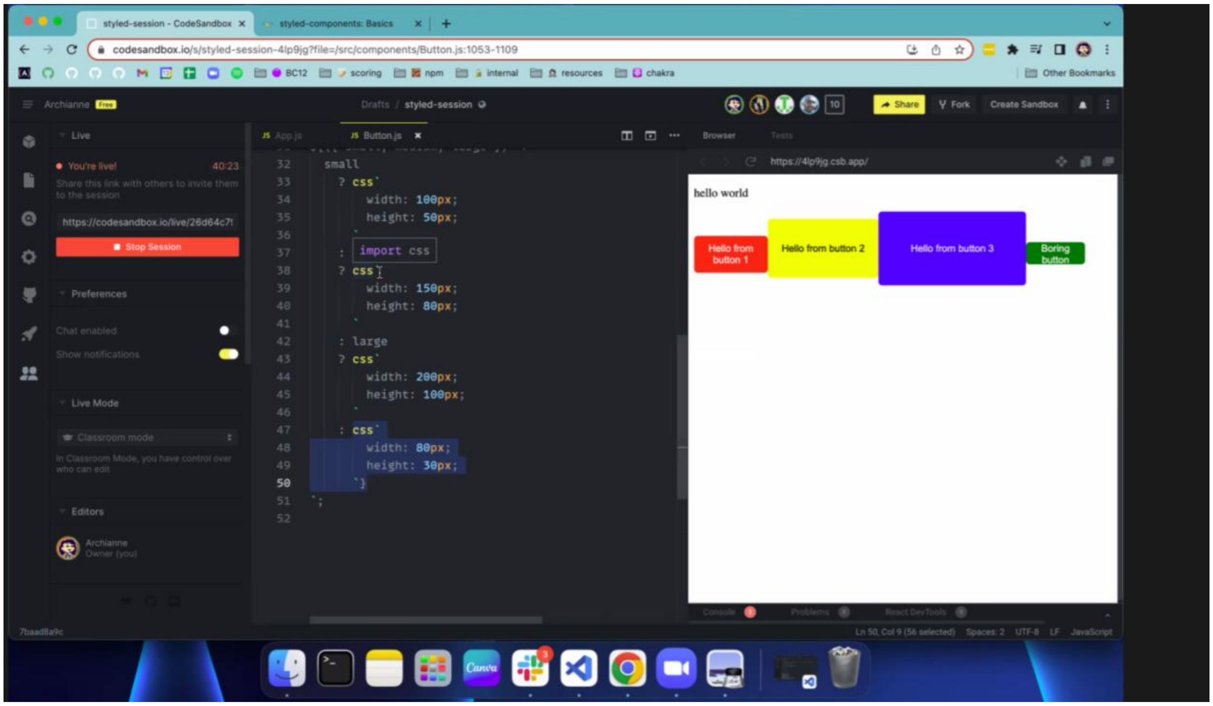
Can pass in Boolean props without an =, e.g. small and use that to conditionally style the component to different sizes:



```
//   return <button>Hello</button>
// }

const StyledButton = styled.button`
  /* background-color: ${({ background }) => backgrou
  background-color: ${({ background }) => (background
  /* background-color: ${(props) => props.background}
  /* color: ${({ color }) => color || 'white'}; */
  color: ${({ color }) => (color ? color : 'white')};
width: 100px;
height: 50px;
border: none;
border-radius: 5px;

${({ small, medium, large }) =>
  small
    ? css`
        width: 100px;
        height: 50px;
      `
    : medium
    ? css`
        width: 150px;
        height: 80px;
      `
    : large
    ? css`
```



```
  small
    ? css`
        width: 100px;
        height: 50px;
      `
    : import css
    ? css`
        width: 150px;
        height: 80px;
      `
    : large
    ? css`
        width: 200px;
        height: 100px;
      `
    : css`
        width: 80px;
        height: 30px;
      `}
`;
```

My code:

App.js

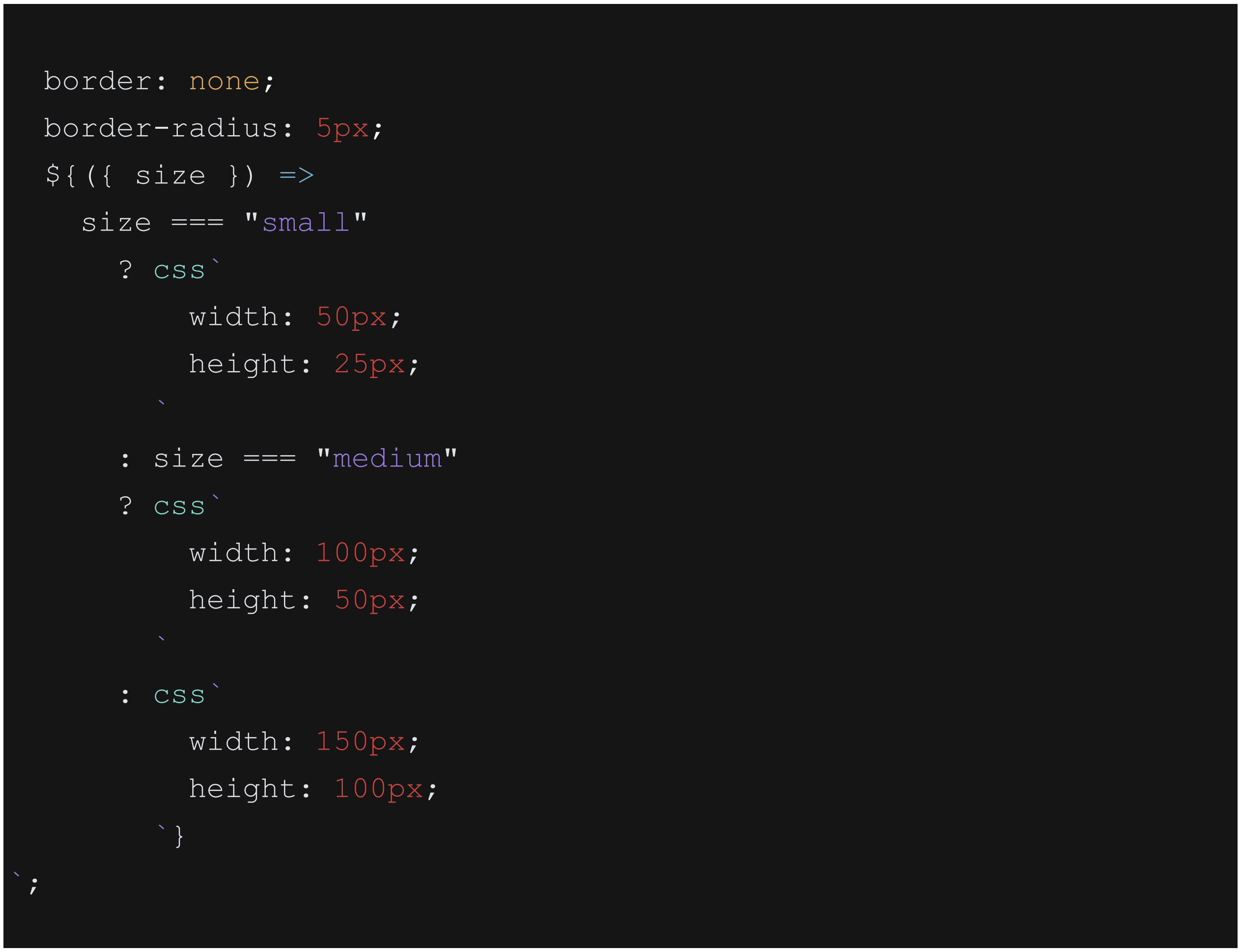
```
import Button from "./component/Button";
export default function App() {
  return (
    <>
      <p>Hello world</p>
      <Button background="red" color="green" size="small">
        Hello from button 1
      </Button>
      <Button size="medium" background="yellow">
        Hello from button 2
      </Button>
      <Button size="large" background="blue">
        Hello from button 3
      </Button>
      <Button>Boring Button</Button>
    </>
  );
}
```

Button.js

```
import styled, { css } from "styled-components";

export default function Button({ children, background, color, size
}) {
  return (
    <StyledButton background={background} color={color}
size={size}>
      {children}
    </StyledButton>
  );
}

const StyledButton = styled.button`
  /*CSS goes here*/
  background-color: ${({ background }) => (background ? background
: "green")};
  color: ${({ color }) => color};
```



```
  border: none;
  border-radius: 5px;
  ${({ size }) =>
    size === "small"
      ? css`
          width: 50px;
          height: 25px;
        `
      : size === "medium"
      ? css`
          width: 100px;
          height: 50px;
        `
      : css`
          width: 150px;
          height: 100px;
        `}
`;
```