

Quick Dive into CSS Modules

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What is CSS Modules?

```
// In button.css
```

```
.base {  
  /* base styles */  
}  
  
.normal {  
  /* normal styles */  
}  
  
.disabled {  
  /* disabled styles */  
}
```

```
// In Button.js React Component
```

```
import React from "react";  
import styles from "./button.css";  
  
function Button(props) {  
  const { label, type } = props;  
  let className = "";  
  if (type === "invalid") {  
    className = styles.disabled;  
  } else {  
    className = styles.normal;  
  }  
  return <button className={className}>{label}</  
button>;  
}
```

```
// In compiled DOM
```

```
<button class="button_base_1nG6b">CSS Modules</button>  
<button class="button_disabled_bKX1S">Disabled!</button>
```

References:

- <https://github.com/css-modules/css-modules>

composes

```
// In button.css

.base {
  /* base styles */
}

.normal {
  composes: base;
  padding: 1em 1.2em;
}

.disabled {
  composes: base;
  color: gray;
}
```

```
// In compiled DOM

<button class="button_normal_1Cr0F button_base_1nG6b">Css Modules</button>
<button class="button_disabled_bKX1S button_base_1nG6b">primary</button>
```

:global

```
:global(input) {  
  padding: 1em;  
  border-radius: 5px;  
  -webkit-appearance: none;  
  border: 1px solid salmon;  
}
```

:local

```
:local(.customLabel) {  
  font-family: "Open Sans", sans-serif;  
  font-size: 1.2em;  
}
```

Mixed

```
// form.css

:global(input) {
  font-family: "Open Sans", sans-serif;
  padding: 1em;
  border-radius: 5px;
  -webkit-appearance: none;
  border: 1px solid salmon;
}

:local(.customLabel) {
  font-family: "Open Sans", sans-serif;
  font-size: 1.2em;
}

:local(.customLabel) :global(.label-global) {
  font-weight: 700;
}

:global(input):local(.localStyle) {
  color: #ccc;
}
```

```
// In compiled DOM

<label for="test"
  class="form_customLabel_2zsDZ">
  <span class="label-global">
    label
  </span>
</label>

<input type="text"
  class="form_localStyle_29az0"
  value="test" />
```

- Prefer camelCase naming convention for local scope
- Keep to classes e.g. `.cardContainer`

**Can you use it
with other kinds*
of CSS system?**

Yes, of course.

with global stylesheet

*caveats: duplicate an additional css rule in webpack config to disable modules mode.

```
// webpack.config.js

module: {
  rules: [
    {
      test: /\.css$/,
      exclude: /(path/to/exclude)$/,
      use: [
        "style-loader",
        {
          loader: "css-loader",
          options: {
            modules: true,
            localIdentName: "[name]_[local]_[hash:base64:5]"
          }
        }
      ]
    },
    {
      test: /isGlobalStylesheet.css/,
      use: [
        "style-loader",
        {
          loader: "css-loader",
          options: {
            importLoaders: 1
          }
        }
      ],
    },
  ],
  // more settings
}
```


with global stylesheet II

```
// Import global styles
```

```
@import "@zendesk/garden/css-buttons";
```

```
// In button.css
```

```
.orangeState {  
  color: orange;  
}
```

```
// Button.js
```

```
function Button(props) {  
  const { label, type } = props;  
  
  return (  
    <button className={`c-btn c-btn--primary ${styles.orangeState}`}>  
      {label}  
    </button>  
  );  
}
```

```
// In compiled DOM
```

```
<button class="c-btn c-btn--primary button_orangeState_2dKxd">primary</button>
```

global stylesheet + sass

add 'sass-loader' to webpack

```
// Import this with modules mode
// disabled

// Import global styles for forms

@import "@zendesk/garden/css-forms";
```

```
// In forms.scss

.label {
  font-family: "Open Sans", sans-serif;
  color: darkslateblue;
}
```

```
// In React Form.js
<div className="c-chk">
  <input className="c-chk__input" type="checkbox" name="test-checkbox" id="test-checkbox" />
  <label className={`c-chk__label ${styles.label}`} htmlFor="test-checkbox">
    To Sass or not to Sass?Sass
  </label>
</div>

// Compiled DOM
<div class="c-chk">
  <input class="c-chk__input" type="checkbox" name="test-checkbox" id="test-checkbox">
  <label class="c-chk__label form_label_2F1TV" for="test-checkbox">
    To Sass or not to Sass?Sass
  </label>
</div>
```

Global + Sass + dealing with overrides

```
// In form.scss, use :global in local scope
// Overriding the default .c-chk__label::before colour style

:global(.c-chk__label::before) {
  background-color: salmon;
}
```

End

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