

React Chaitanya

notes :-

0

Why React

disadvantages of JS

- 0 Complexity in state management
(cross browser compatibility)
- 0 Inconsistent Browser support

0 Difficult in code organisation

0 Performance Concerns

0 Callback Hell.

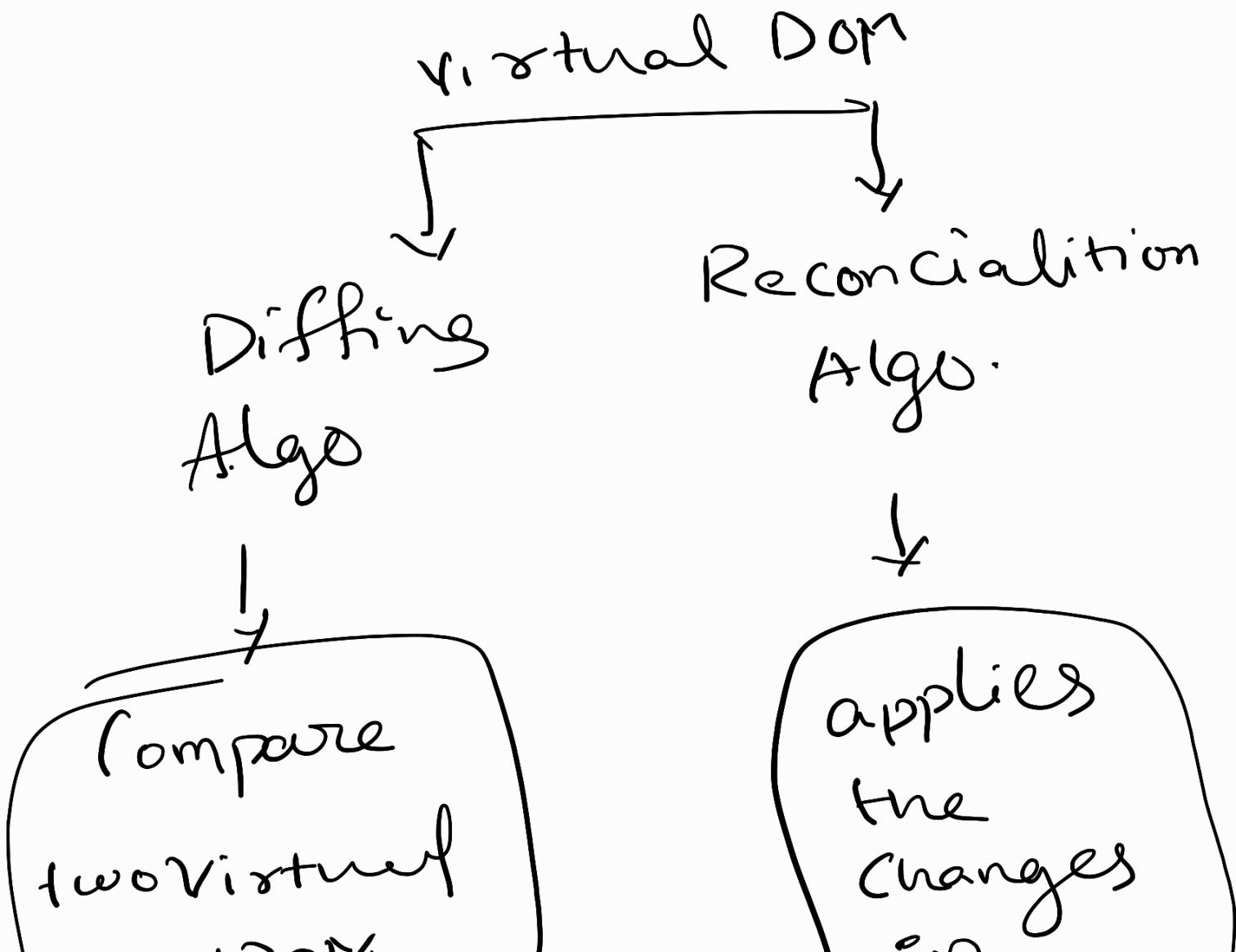
0 Directly interact with DOM

why moving to React :-

0 Component - Based

Architecture

- Virtual DOM
- State Management.
- Declarative Syntax
- Ecosystem & Community



why only ↴ React when

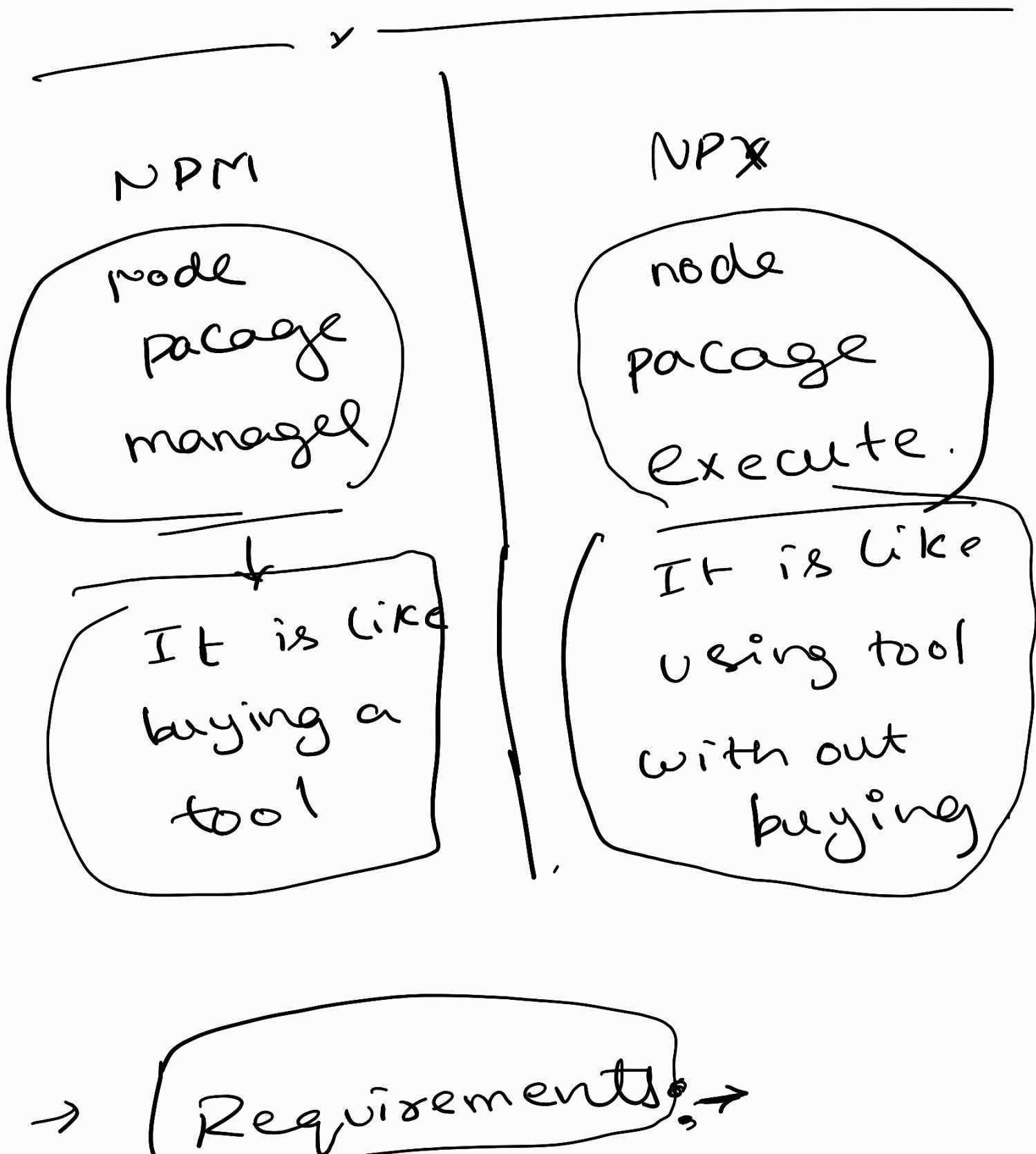
Compare to other lib/frame

- Component based Architecture
- Flexibility & Ecosystem
- Virtual Dom for performance
- Declarative Syntax
- Rich Ecosystem
- JSX syntax
- Popular for Modern Development

JavaScript
xml notation

○ Learning Curve.

○ Support for mobile development.



- Node JS ✓
- NPM | NPM ✓
- Code editors .

x

Creating React APP

2 ways

Create
React APP

Vite

- npx create-react-app my-app
- cd my-app
- npm start

folder structure :-

Node modules ✓

public

src

.gitignore ✓

package-lock.json ✓

package.json ✓

Readme.md. → ✓

Readme → we can write
info

Project files

like setup instructions

Usages,
other instructions

gitignore → ignores the
files & folders

package.json → contain
metadata
about project

node modules → all packages
dependencies

→ ——————

By vite.

npm create vite@latest

then press Y

then enter project name

Select framework → React

Select variant → Javascript.

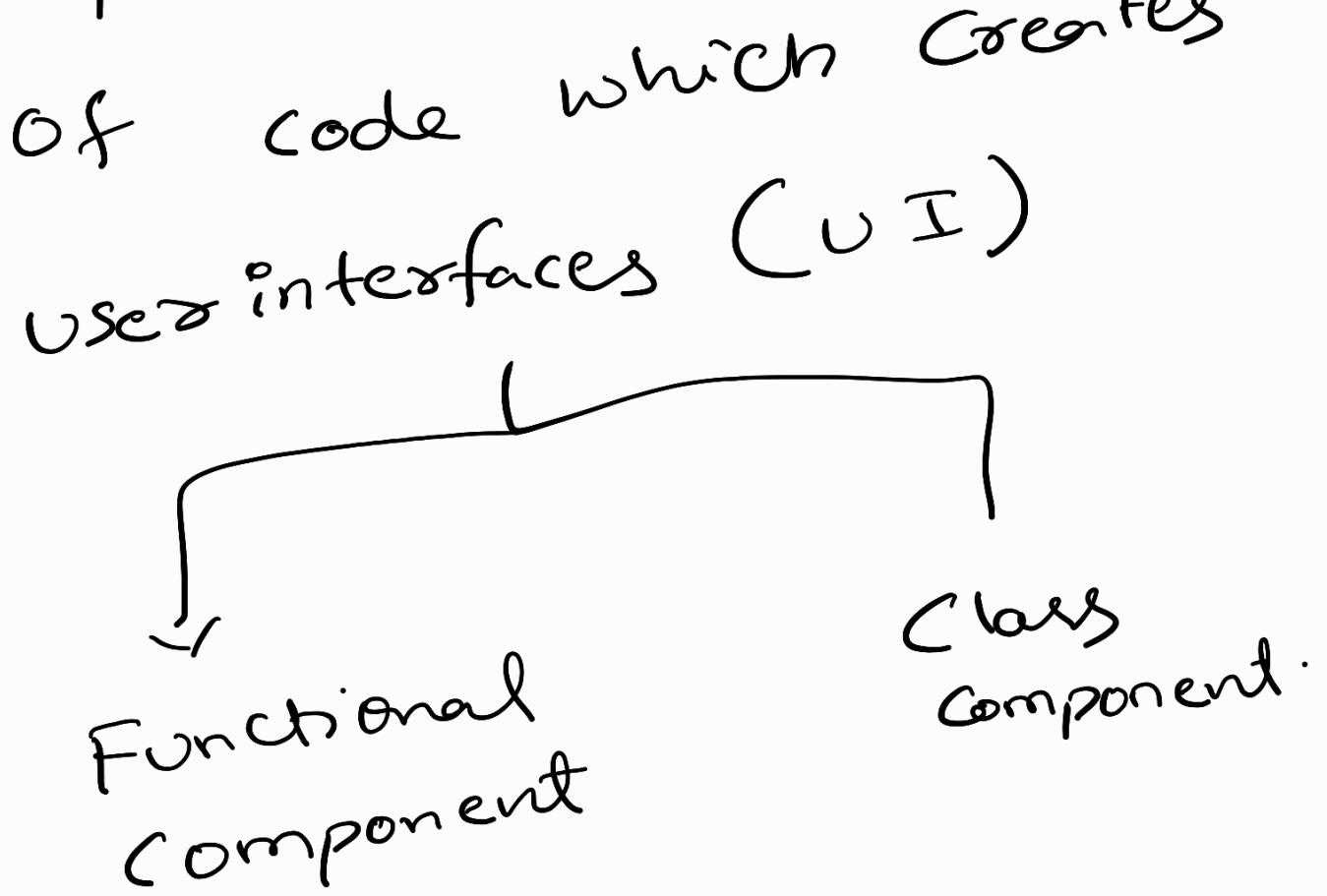
cd Project name

npm install

npm run dev .

Components :-

Component is reusable bits



Rules
Every component will
return HTML type of
code called as **JSX**

- ① Component should start with **Capital letter**
- ② Component can be as small as button & as large as screen ✓

• nested components can be formed to create entire application ✓



JSX ↴

JavaScript XML notation

Because of JSX we can

write JS and HTML

content in one file.

Rules :-

every component should have the single parent,

that parent can
be div, fragments etc..

<>
</>

<div>
<(div)>

React Fragments

↳ empty sharable container

it don't create extra

node in the dom

① Every Attribute must be
Camel case e.g. onClick etc.

② Every JS code must be
in {} curly braces
inside return

③ Class →

Classname

• use expressions in JSX

but not statements.

like (ternary operator)
Can be used

• Comments →

{ /* * }

expression

statements

val a = 10 → statement
→ expression

Props
State
Up Lifting

Props

→ Properties

unidirectional flow

Pars data from

one compo → another component

typically

parent → child.

→ Immutable ✓

→ Unidirectional dataflow

→ Props can be any data

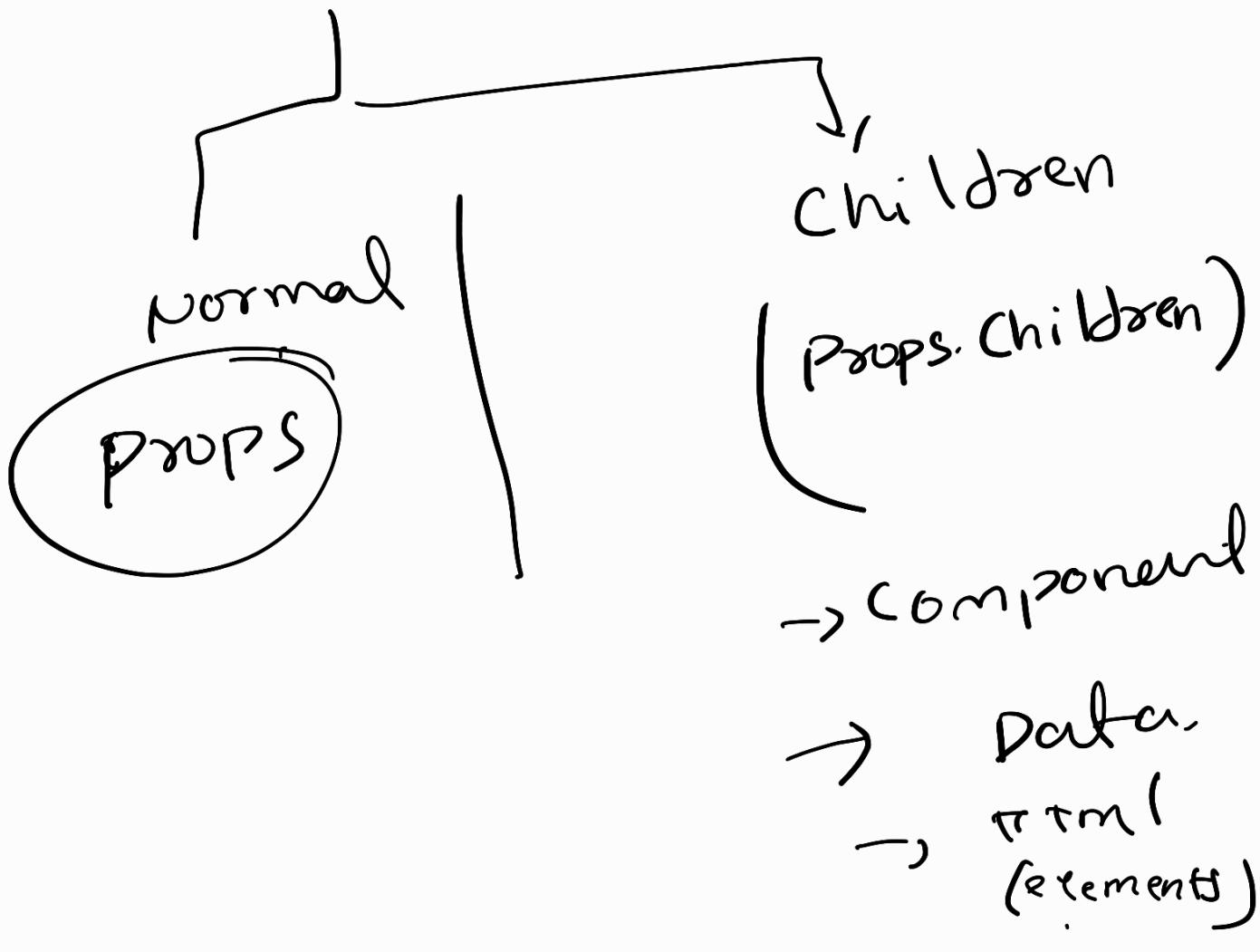
number, object, string

& even component.

Up Lifting

→ State changing.

Two types of props →



ES6 Concepts

Map → using map how we
render the data?

Types of Styles in React

- ① inline | javascript object styles
- ② external CSS styling.
- ③ external modules styling
- ④ External library styling.

→ Inline Styling :-

```
const style = {  
    color: "blue",  
    fontSize: "20px",
```

① <div style={color: 'red'}
} }
replace with
JS object.

② stylesheets
import style sheets into
Component

```
import './style.css'  
<div className='myClass'>
```

③ module
name as Style.module.css
import style from 'filename'

<div style.myClass>

