

A switch component is a toggle button, which supports switching between ON and OFF statuses. The UI should look like below.

If the component is disabled, the component cannot be toggled and its color should be a bit grayer.



## Basic Requirement

Implement the <Switch> component, as a controlled component, in ES6 class style.

Therefore, the basic props definition should contain at least the following:

```
checked: boolean;  
onChange: (checked: boolean) => void;  
disabled?: boolean;
```

## Advanced Requirement

Please choose at least 2 advanced features to implement:

1. Use TypeScript for coding.
2. Add CSS3 animation while toggling between ON and OFF.
3. Implement <Switch> as an un-controlled component as well.  
In other words, <Switch> can be used as either controlled or un-controlled, determined by the user.  
The prop name (un-controlled) should conform to the standard of React.  
<https://reactjs.org/docs/uncontrolled-components.html>

# About Attachment Code

In the attachment, we provide a simple React project, including TypeScript support, webpack, lint tools etc.

1. Install all the dependencies by yourself, via npm or yarn.
2. Implement <Switch> component in either JSX or TSX, depending if you want to complete Advanced Requirement 1.

Remove the other file after choosing JavaScript or TypeScript.

Note: "strict": true is turned on in tsconfig.json.

3. Add proper style in CSS.
4. Add more examples in <App> component, if necessary.
5. During your development, run npm run start or yarn start to start the webpack dev-server to debug at localhost (port 7228).
6. Before submitting your codes, remember to run npm run precommit or yarn precommit to make sure your codes pass all inspections.
7. Submit your src folder only.

Enjoy coding!