

Use in TypeScript

Let's create a TypeScript project by using `create-react-app`, then import `antd` step by step.

We build `antd` based on latest stable version of TypeScript (`>=4.0.0`), please make sure your project dependency matches it.

Install and Initialization

Ensure your system has installed latest version of yarn or npm.

Create a new cra-template-typescript project named `antd-demo-ts` using yarn.

```
$ yarn create react-app antd-demo-ts --template typescript
```

If you are using npm (we will use yarn in the following instructions, it's ok to replace yarn with npm)

```
$ npx create-react-app antd-demo-ts --template typescript
```

Then we go inside `antd-demo-ts` and start it.

```
$ cd antd-demo-ts
```

```
$ yarn start
```

Open browser at `http://localhost:3000/`, it renders a header saying “Welcome to React” on the page.

Import antd

```
$ yarn add antd
```

Modify `src/App.tsx`, import Button component from `antd`.

```
import React, { FC } from 'react';
import { Button } from 'antd';
import './App.css';
```

```
const App: FC = () => (
  <div className="App">
```

```

    <Button type="primary">Button</Button>
  </div>
);

```

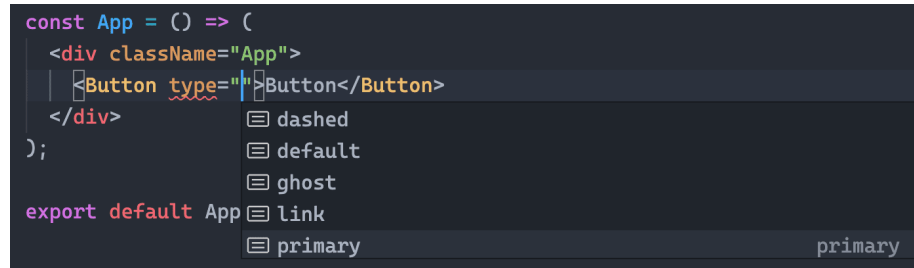
export default App;

Add antd/dist/antd.css at the top of src/App.css.

```
@import '~antd/dist/antd.css';
```

OK, reboot with `yarn start`, you should now see a blue primary button displayed on the page. Next you can choose any components of `antd` to develop your application. Visit other workflows of `create-react-app` at its User Guide.

`antd` is written in TypeScript with complete definitions, try out and enjoy the property suggestion and typing check.



Don't install `@types/antd`.

Advanced Guides

In the real world, we usually have to modify default webpack config for custom needs such as themes. We can achieve that by using `craco` which is one of `create-react-app`'s custom config solutions.

Install `craco` and modify the `scripts` field in `package.json`.

```
$ yarn add @craco/craco
```

```

/* package.json */
"scripts": {
  - "start": "react-scripts start",
  - "build": "react-scripts build",
  - "test": "react-scripts test",
  + "start": "craco start",
  + "build": "craco build",
  + "test": "craco test",
}

```

Then create a `craco.config.js` at root directory of your project for further overriding.

```

/* craco.config.js */
module.exports = {
  // ...
};

```

Customize Theme

According to the Customize Theme documentation, we need to modify less variables via loader like less-loader. We can use craco-less to achieve that,

First we should modify `src/App.css` to `src/App.less`, then import less file instead.

```

/* src/App.ts */
- import './App.css';
+ import './App.less';

/* src/App.less */
- @import '~antd/dist/antd.css';
+ @import '~antd/dist/antd.less';

```

Then install craco-less and modify `craco.config.js` like below.

```
$ yarn add craco-less
```

```

const CracoLessPlugin = require('craco-less');

module.exports = {
  plugins: [
    {
      plugin: CracoLessPlugin,
      options: {
        lessLoaderOptions: {
          lessOptions: {
            modifyVars: { '@primary-color': '#1DA57A' },
            javascriptEnabled: true,
          },
        },
      },
    },
  ],
};

```

By adding `modifyVars` option of less-loader here, we should see a green button rendered on the page after rebooting the server now.

We provide built-in dark theme and compact theme in antd, you can reference to Use dark or compact theme.

You could also try `react-app-rewired` and `customize-cra` to customize `create-react-app` webpack config like `craco` did.

Alternative ways

Follow manual in Adding TypeScript to setup TypeScript development environment if you already create a project by Use in `create-react-app`.

- Create React apps (with Typescript and antd) with no build configuration
- `react-app-rewire-typescript`
- `ts-import-plugin`
- Migrating from `create-react-app-typescript` to Create React App