

React扬帆起航

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读者要求

- ▶ 熟悉ES2015+主要知识点
- ▶ 对typescript有一定的了解
- ▶ 对react有基本的了解

Hello world

开始

```
npm i create-react-app -g  
create-react-app react-demo --scripts-version=react-scripts-ts  
cd react-demo  
npm start
```

高级配置

- ▶ npm run eject
- ▶ [react-app-rewired](#)

Feature

- ▶ 声明式 (Tell it what you want, do not care how to do)
- ▶ 组件化
- ▶ Learn once, write anywhere
- ▶ MVVM(Model-View-ViewModel)

注：声明式与组件化是react的核心思想

组件的生命周期

1. Start

- ▶ getDefaultProps
- ▶ getInitialState
- ▶ componentWillMount
- ▶ render
- ▶ componentDidMount(仅客户端渲染)

2. Changed

- ▶ componentWillReceiveProps(仅props变更)
- ▶ shouldComponentUpdate
- ▶ componentWillUpdate
- ▶ render
- ▶ componentDidUpdate

3. Umount

- ▶ componentWillUnmount

前后端数据交互

- ▶ fetch
- ▶ axios (推荐)

路由

- ▶ 路由属于组件
- ▶ 路由级别的代码拆分 ([react-loadable](#))

状态管理(mobx) - 基本

1. 为什么需要引入状态管理工具

3. with react

- ▶ mobx + mobx-react

4. 核心API(mobx)

- ▶ @observable/@action
- ▶ autorun/when
- ▶ @computed
- ▶ ...

2. redux vs mobx

- ▶ 单一store — 多store
- ▶ 函数式编程 — 面向对象的响应式编程
- ▶ immutable — mutable
- ▶ ...

5. 核心API(mobx-react)

- ▶ @observer
- ▶ Provider/inject
- ▶ componentWillReact
- ▶ ...

状态管理(mobx) - 组织store

- ▶ 按角色组织 VS 按功能组织(推荐)
- ▶ 单例应用
- ▶ 定义store → export store → 实例化
- ▶ Provider/inject 注入

with antd

- ▶ css module
- ▶ 定制主题
- ▶ 按需加载
- ▶ 国际化

with echarts

- ▶ 按需引入
- ▶ refs

拓展与交流

- ▶ 复杂应用下states与actions的拆分(mobx)
- ▶ css module的缺陷
- ▶ 组件级别的代码拆分
- ▶ 服务端渲染
- ▶ PWA
- ▶ 多页应用
- ▶ 单元测试
- ▶ react性能分析与优化(本身优化与基于mobx的优化)

react-sail

Seed of react with mobx

<https://github.com/vdfor/react-sail>

注：本文档说述大部分内容在react-sail中有示例