React.js (리액트)

Quick start

- Install node.js (npm)
- Install create-react-app

```
$ npm install -g create-react-app
```

- create app

```
$ create-react-app <project name>
```

- change directory into project

```
$ cd <project name>
```

- run project

```
$ npm start
```

- connect via web browser http://localhost:3000/
- start with `app.js` file, and so on.

Preparings

Install Node.js on Ubuntu

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```
# to install node.js we need CURL
$ sudo apt install -y curl

# install node.js using apt package manager
$ sudo apt update & sudo apt upgrade -y
$ sudo apt install nodejs
$ nodejs -v
$ sudo apt install npm
$ npm -v

# using PPA
$ curl -sL https://deb.nodesource.com/setup_18.x -o nodesource_setup.sh
# version 18.x
$ sudo bash nodesource_setup.sh
$ sudo apt-get install nodejs
$ sudo apt-get install build-essential
```

- nvm

```
$ curl -o-
https://raw.githubusercontent.com/nvm-sh/nvm/v0.39.3/install.sh | bash
$ source ~/.bashrc
$ nvm list-remote
$ nvm install <version>
$ nvm list
$ nvm use <version>
```

- npm update

```
$ npm install -g npm@latest
$ npm -v
```

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Getting Started

Hello, World

```
<!DOCTYPE html>
<html>
  <head>
    <meta charset="utf-8" />

    <title>Hello React!</title>

    <script
src="https://unpkg.com/react@16/umd/react.development.js"></script>
    <script
src="https://unpkg.com/react-dom@16/umd/react-dom.development.js"></script>
    <script
src="https://unpkg.com/babel-standalone@6.26.0/babel.js"></script>
  </head>

  <body>
    <div id="root"></div>

    <script type="text/babel">
      class App extends React.Component {
        render() {
          return <h1>Hello world!</h1>
        }
      }
```

```
      ReactDOM.render(<App />, document.getElementById('root'))
    </script>
  </body>
</html>
```

Concepts

- react
- jsx(JavaScript XML)
- props;
    - defaultProps
    - props.children
    - isSpecial
- useState (@React Hooks), state
    - 함수형 업데이트
- useRef (@React Hooks)
- useEffect (@React Hooks)
- useMemo (@React Hooks)
- useCallback (@React Hooks)
- useReducer
- cutom hooks
- LifeCycle
    - Mount; constructor, getDerivedStateFromProps, reder, componentDidMount
    - Update; getDerivedStateFromProps, shouldComponentUpdate, render, getSnapshotBeforeUpdate, componentDidUpdate
    - Unmount; componentWillUnmount

References

- 시작하기
- React 시작하기 - Web 개발 학습하기 | MDN
- React Tutorial: An Overview and Walkthrough
- 벨로퍼트와 함께하는 모던 리액트
- React Developer Tools @chrome 웹 스토어
- 리액트 고유한 Key 값 생성하기 (uuid)

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