

: <https://velopert.com/reactjs-tutorials>

: <https://www.infllearn.com/course/react-%EA%B0%95%EC%A2%8C-velopert/?subscribe>

ReactJS & [Express](#)

React Fundamentals - [Express](#) - [ES6](#) - MongoDB mongoose

Virtual DOM

DOM(Document Object Model)

Redux, Webpack

## React.js

atom , slack

agility.js, angular.js, aria templates, backbone.js, batman.js, bolt, canjs, chaplin + brunch, closure, cujo.js, dart, derby, dermis, dijon, dojo, due, ember.js, epitome, ext.js, funnyface.js, gwt, kendo ui, knockback.js, knockoutjs, maria, marionette, meteor, montage, olives, plastrongjs, puremvc, rappid.js, sammy.js, serenade.js, socketstream, soma.js, spine, stapes, yui

/ 가

frame;

"A Javascript Library for Building User Interface"

Reactive Native

Angular2 Native

Virtual DOM (가 )

## React.js

React ? Virtual Dom . . Component

Garbage Collection, ,

&

& SEO( )

UI ( )

.

php CodeIgniter ,

laravel

Links: - <http://slides.com/minjunkim-1/deck> ( ) -  
<https://velopert.com/reactjs-tutorials> (React.js ) - <http://incleaf.github.io/react-settin...> (IE8 )

가

React

View Only. IE8 X

7BTN5e

## 2. REACT.JS

### CODEPEN . ES6

2 React.js ,  
 Codepen.io . 가 , ES6  
 class

Links:

- <http://slides.com/minjunkim-1/deck> ( )
- <https://codepen.io/pen/> ( )
- <http://kangax.github.io/compat-table/>... ( ES6 )
- <https://developer.mozilla.org/ko/docs...> (JavaScript )
- <https://velopert.com/reactjs-tutorials> (React.js )

Codepen.io

Babel ES6 . ES5 .

- react.min.js
- react.dom.min.js 15

ES6 class

## JSX

[snippet.javascript](#)

```
class Codelab extends React.Component{
  render(){
```

```

    return(
      <div>CodeLab</div>
    )
  }
}

class App extends React.Component{
  render(){
    return (
      <CodeLab/>
    )
  }
}

ReactDOM.render(<App/>.document.getElementById("root"));

```

snippet.html

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

HTML

. babel

jsx

.

let

1. Javascript Expression
2. Inline Style
3. Comments

## props

Links: - <http://slides.com/minjunkim-1/deck#/11> ( ) - <https://facebook.github.io/react/docs...> (React PropTypes) - <https://velopert.com/reactjs-tutorials> (React.js )

- Immutable Data
- JSX {this.props.propsName}
- , < > propsName="value"
- this.props.children props , <Cpnt> .</Cpnt>

snippet.javascript

```

<div>
  <h1>Hello {this.props.name}</h1>

```

```
<div>{this.props.children}</div>
</div>
```

Componet.defaultProps={...}

[snippet.javascript](#)

```
class App extends React.Compoent{
  render(){
    return (
      <div>{this.props.value}</div>
    )
  }
}

App.defaultProps = {
  value: 0
}
```

## Type

Componet.propTypes = {...}

[snippet.javascript](#)

```
class App extends React.Componet{
  render(){
    return (
      <div>
        {this.props.value}
        {this.props.secondValue}
        {this.props.thirdValue}
      </div>
    )
  }
}

App.propTypes = {
  value: React.PropTypes.string,
  secondValue: React.PropTypes.number,
  thirdValue: React.PropTypes.andy.isRequired
}
```

min 가 .

## state

Links: - <http://slides.com/minjunkim-1/deck#/10> ( ) - <http://bit.ly/ReactCodePen> ( React ) - <https://velopert.com/867> (JSX )

- 
- JSX {this.state.stateName}
- , (constructor) this.state={}
- this.setState({...}), this.state =
- , 가 .

[snippet.javascript](#)

```
class Counter extends React.Component{
  constructor(props){
    super(props);
    this.state = {
      value:0
    }
  }

  render(){
    return(
      <div>
        <h2>{this.state.value}</h2>
        <button>Press Me</button>
      </div>
    )
  }
}
```

## (Component Mapping)

JavaScript - map

[snippet.javascript](#)

```
arr.map(callback, [thisArg])
```

- callback , 가 가 .
  1. currentValue
  2. index index
  3. array 가
- thisArg ( ) callback this

snippet.javascript

```
/* ES6 Syntax */
let numbers = [1,2,3,4,5];

let result = numbers.map((num)=>{
  return num*num;
})
```

arrow function(...) ⇒ {...}

Links:

- <http://slides.com/minjunkim-1/deck/#/12> ( )
- <http://bit.ly/ReactCodePen> ( React )
- <http://codepen.io/velopert/pen/JKxKay> ( )
- <https://developer.mozilla.org/ko/docs...> ( Map )
- <https://developer.mozilla.org/en-US/d...> ( Arrow function)
- <http://es6console.com/> (ES6 - ES5 )

snippet.javascript

```
class ContactInfo extends React.Component{
  render(){
    return (
      <div>{this.props.contact.name} {this.props.contact.phone}</div>
    )
  }
}

class Contact extends React.Component{
  constructor(props){
    super(props);
    this.state = {
      contactData : {
        {name: 'Abet', phone: '010-0000-2222'},

```

```

        {name: 'Bbet', phone: '010-0000-2222'},
        {name: 'Cbet', phone: '010-0000-2222'}
      ]
    }
  }

  render(){
    const mapToComponet = (data) => {
      return data.map((contact, i) => {
        return (
          <ContactInfo contact ={contact} key={i} />;
        )
      })
    };
    return (
      <div>
        <div>Abet 010-0000-2222</div>
        <div>Bbet 010-0000-2222</div>
        <div>Cbet 010-0000-2222</div>
      </div>
    )
  }
}

```

const

snippet.javascript

```

return(
  <div>
    {mapToComponent(this.state.contactData)}
  </div>
)

```

3. ,

<https://www.nitrous.io/> c9.io groom.io codeanywhere.com

## React Project

Links:

- <http://slides.com/minjunkim-1/deck#/13/1>
- React Project : <https://velopert.com/814>
- React : <https://velopert.com/reactjs-tutorials>

```
c:\>git --version
git version 2.10.1.windows.1
```

```
c:\>node -v
v6.9.1
```

## Global Dependency

```
sudo npm install -g webpack webpack-dev-server
```

1. webpack: import(require)
2. webpack-dev-server: static  
hot-loader 가 .

<https://www.inflearn.com/course-status-2/>

```
mkdir react-fundamentals
cd react-fundamentals
npm init
```

nodejs

npm init nodejs .

## Dependency Plugin

React

```
npm install --save react react-dom
```

```
npm install --save-dev babel-core babel-loader babel-preset-es2015 babel-
preset-react
npm install --save-dev react-hot-loader webpack webpack-dev-server
```

save , package.json 가 .



- [React](#)

From:

<https://jace.link/> - **Various Ways**

Permanent link:

<https://jace.link/open/react.js-%EC%86%8C%EA%B0%9C>

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