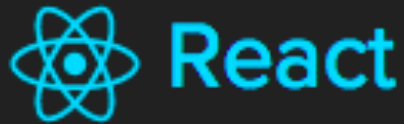


# Intro to



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# React in a Nutshell

- Released by Facebook in 2013
- Open Source
- “A JavaScript library for building user interfaces.”

# React in a Nutshell

- Helps you subdivide your UI into small components.

```
render: function() {  
  return (  
    <div>  
      <h3>TODO</h3>  
      <TodoList items={this.state.items} />  
      <form onSubmit={this.handleSubmit}>  
        <input onChange={this.onChange} value={this.state.text} />  
        <button>{'Add #' + (this.state.items.length + 1)}</button>  
      </form>  
    </div>  
  );  
}
```

## TODO

- Call dentist
- Get groceries

 Add #3

# React in a Nutshell

- Maintains a virtual DOM
  - optimizes DOM changes

# React in a Nutshell

- Mix and match custom components with HTML

```
<div>
  <h3>TODO</h3>
  <TodoList items={this.state.items} />
  <form onSubmit={this.handleSubmit}>
    <input onChange={this.onChange} value={this.state.text} />
    <button>{'Add #' + (this.state.items.length + 1)}</button>
  </form>
</div>
```

# React in a Nutshell

- One-way state binding

```
this.setState({  
  items: ["orange", "apple", "kiwi"]  
});
```

---

```
<div>  
  <h3>TODO</h3>  
  <TodoList items={this.state.items} />  
  <form onSubmit={this.handleSubmit}>  
    <input onChange={this.onChange} value={this.state.text} />  
    <button>{'Add #' + (this.state.items.length + 1)}</button>  
  </form>  
</div>
```

# JSX

- JSX lets you create JavaScript objects using HTML syntax

## Pure JavaScript:

```
React.createElement('a', {href: 'http://facebook.github.io/react/'},  
'Hello!')
```

## JSX:

```
<a href="http://facebook.github.io/react/">Hello!</a>
```

# JSX

- JSX lets you create JavaScript objects using HTML syntax

```
<div>
  <h3 className="large">TODO</h3>
  <TodoList items={this.state.items} />
  <form onSubmit={this.handleSubmit}>
    <input onChange={this.onChange} value={this.state.text} />
    <button>{'Add #' + (this.state.items.length + 1)}</button>
  </form>
</div>
```



# Demo



# Notes on dev environment

- NPM
- Grunt
- Browserify