



**React.js**

# Agenda

- Short **presentation**
  - JSX
  - Basic building blocks
- Live **demonstration**
  - A few short example apps
- Q(&A)

# What is React.js

- Client side
- User interfaces
- Open Source
- Innovative

# JSX

- An extension to javascript
- Looks like **html**
- Compiles to **javascript**
- The translation is straightforward
- Not required

```
/** @jsx React.DOM */
```

```
<h1>Hello, akvo</h1>;
```

```
<input type="text" value={x}/>;
```

```
<ProjectList
```

```
  projects={currentProjects}  
  onClick={this.handleSelectProject}/>;
```

```
<ul style={{backgroundColor: blue}}>
```

```
  <li>Item #1</li>
```

```
  <li>Item #2</li>
```

```
  <li>Item #3</li>
```

```
</ul>;
```

```
/** @jsx React.DOM */
```

```
React.DOM.h1(null, "Hello, akvo");
```

```
React.DOM.input({type: "text", value: x});
```

```
ProjectList({
```

```
  projects: currentProjects,  
  onClick: this.handleSelectProject});
```

```
React.DOM.ul({style: {backgroundColor: blue}},
```

```
  React.DOM.li(null, "Item #1"),
```

```
  React.DOM.li(null, "Item #2"),
```

```
  React.DOM.li(null, "Item #3")
```

```
);
```

# Building blocks

```
var MyComponent = React.createClass({
```

```
  render: function () {  
    return <h1>Hello, {this.props.who}!</h1>  
  }
```

```
});
```

```
React.renderComponent(<MyComponent who="Akvo">, document.getElementById("app"))
```

# Building blocks

```
var Counter = React.createClass({  
  getInitialState: function() {  
    return {count: 42};  
  },  
  handleInc: function() {  
    this.setState({count: this.state.count + 1});  
  },  
  render: function() {  
    return (  
      <div>  
        <span>{this.state.count}</span>  
        <button onClick={this.handleInc}/>  
      </div>  
    );  
  }  
});
```

# Learn more?

- <http://facebook.github.io/react>
- Some presentations (google these):
  - **React: Rethinking best practices** (30min)  
*Great intro into the “why” of react*
  - **Introduction to React.js** (1h20min)
  - **React’s Architecture** (36min)  
*Describes why React is fast enough.*