



Welcome 2 REACT 1

by Toon Nelissen & David Singh (AppSaloon)

What is your name?

What is your favorite website?

What do you know about React?



Who am I

- Developer, maker
- Appsaloon
- What do we make?



Who's David

- Developer
- What does he do?

Let's start with REACT



Why

- Building complex applications
- Easier to manage code
- Data driven
- JQuery, Backbone, ...

```
<ul id="todos">
</ul>

<script type="text/javascript">
  var todoItems = new Collection()

  todoItems.forEach(item => {
    $('<li/>').text(item.description).appendTo('#todos')
  })
  todoItems.on('add', item => {
    $('<li/>').text(item.description).appendTo('#todos')
  })
  todoItems.on('remove', index => {
    $('#todos').child(index).remove()
  })
  todoItems.on('change', (index, item) => {
    $('#todos').child(index).text(item.description)
  })
</script>
```

Unconnected



What?

- Facebook build it and open sourced it
- Data & UserInterface (UI) are connected
- Fast rendering of data
- Reusable components
- Reactive programming

JSX

is a syntax extension to JavaScript

```
const element = <h1>Hello, world!</h1>;
```

JSX produces React “elements”.



Let's write some code

- Create html page
- Add react to your html page (([more info](#))
-

```
ReactDOM.render(  
  <h1>Hello, world!</h1>,  
  document.getElementById('root')  
)
```

([CodePen](#))

Rendering Elements



Let's write some code

- Create a JSX element (More info)



```
const element = <h1>Hello, world</h1>;  
ReactDOM.render(element, document.getElementById('root'));
```

([CodePen](#))



Updating the Rendered Element

- Create a function “tick” that renders an element
- Call that function with a “`setInterval`” function

```
function tick() {  
  const element = (  
    <div>  
      <h1>Hello, world!</h1>  
      <h2>It is {new Date().toLocaleTimeString()}</h2>  
    </div>  
  );  
  ReactDOM.render(element, document.getElementById('root'));  
}  
  
setInterval(tick, 1000);
```

([CodePen](#))

Components and Props



Let's write some code

```
function Welcome(props) {  
  return <h1>Hello, {props.name}</h1>;  
}  
  
const element = <Welcome name="Sara" />;  
ReactDOM.render(  
  element,  
  document.getElementById('root')  
);
```

([CodePen](#))

Create React app

Lists & Key