

High-Level JSX

Prof. Andrew Sheehan

Boston University/MET
Computer Science Dept.

WHAT IS
JSX

JavaScript XML

JSX

KEY POINT

JSX is not HTML and
it is not a String

PURPOSE OF JSX

Allows you to create React elements within your components.

You do not have to use it.

```
// example  
const segment = (  
  <div>A</div>  
);
```

```
const age = getClientAge();
```

// just the curly brackets

```
const ageElem = (  
  <span>{age}</span>  
)
```

// expressions are possible, too

```
const nextAge = (  
  <span>{age+1}</span>  
)
```

JSX is allowed in control structures

```
function welcome(user = "guest") {  
  if (user === "guest") {  
    return <h1>Hello,{user}</h1>;  
  } else {  
    return <h1>Welcome back {user}!</h1>;  
  }  
}  
  
// using welcome()...  
render() {  
  return ({welcome()});  
}
```

Don't use quotes around curly braces when embedding a JavaScript expression in an attribute definition.

```
const element = <img src={user.avatarUrl}></img>;
```

QUOTES
SURROUNDING
ATTRIBUTES

React uses camelCase with HTML attributes

`class` becomes `className` in JSX, and `tabindex` becomes `tabIndex`.

ATTRIBUTES:
CAMELCASE

CHILD ELEMENTS

```
<section>
  <h1>News Today</h1>
  <article>
    <strong>I</strong>n
    today's news...
  </article>
</section>
```

By default, **React DOM escapes any values embedded in JSX** before rendering

Everything is converted to a string

It helps prevent XSS (cross-site-scripting).

FUNCTIONS: JSX

Invoking functions within JSX is allowed.

```
const ele = (  
  <h1>Good afternoon, {f1(user)} </h1>  
);
```