THE ESSENTIALS

React.createElement(type, props, children)

Create a ReactElement with the given component class, props and children.

```
var link = React.createElement('a', {href: '#'}, "Save")
var nav = React.createElement(MyNav, {flat: true}, link)
```

2. React.cloneElement(element, props, children)

Create a new ReactElement, merging in new props and children.

ReactDOM.render(element, domNode)

Take a ReactElement, and render it to a DOM node. E.g.

```
ReactDOM.render(
  React.createElement('div'),
  document.getElementById('container')
)
```

4. ReactDOM.findDOMNode(element)

Return the DOM node corresponding to the given element (after render).

SPECIAL PROPS

```
key uniquely identifies a ReactElement. Used with elements in arrays.
ref adds the created element to this.refs. Used in components.
children is automatically added to this.props by React.createElement.
style accepts an object of styles, instead of a string.
```

className corresponds to the HTML class attribute.

htmlFor corresponds to the HTML for attribute.

PROPTYPES

Available under React. PropTypes. Optionally append .isRequired.

any	array	bool	element	func				
node	number	object	string					
<pre>instanceOf(constructor)</pre>								
<pre>oneOf(['News', 'Photos'])</pre>								
oneOfType(propType, p	<pre>ropType])</pre>						

COMPONENTS

```
var MyComponent = React.createClass({
   displayName: 'MyComponent',

   /* ... options and lifecycle methods ... */

   render: function() {
     return React.createElement( /* ... */ )
   },
})
```

Options

propTypes	object mapping prop names to types		
getDefaultProps	<pre>function() returning object</pre>		
getInitialState	<pre>function() returning object</pre>		

Lifecycle Methods

<pre>componentDidMount componentWillReceiveProps shouldComponentUpdate componentWillUpdate componentDidUpdate componentWillUnmount function() function(nextProps, nextState) function(nextProps, nextState) function(prevProps, prevState) function()</pre>	componentWillMount	function()		
<pre>shouldComponentUpdate componentWillUpdate componentDidUpdate function(nextProps, nextState) function(prevProps, prevState)</pre>	componentDidMount	<pre>function()</pre>		
<pre>componentWillUpdate function(nextProps, nextState) componentDidUpdate function(prevProps, prevState)</pre>	componentWillReceiveProps	<pre>function(nextProps)</pre>		
<pre>componentDidUpdate function(prevProps, prevState)</pre>	shouldComponentUpdate	<pre>function(nextProps,</pre>	nextState)	-> bool
	componentWillUpdate	<pre>function(nextProps,</pre>	nextState)	
<pre>componentWillUnmount function()</pre>	componentDidUpdate	<pre>function(prevProps,</pre>	prevState)	
	componentWillUnmount	<pre>function()</pre>		

COMPONENT INSTANCES

One component instance may persist over multiple equivalent ReactElements.

Properties

```
refs lists instances of components created with a ref prop
props contains any props passed to React.createElement
state contains state set by setState and getInitialState
isMounted is true if the element has a corresponding DOM node
```

Methods

- 1. setState(changes) applies the given changes to this.state and re-renders
- 2. replaceState(newState) replaces this.state and re-renders
- 3. forceUpdate() immediately re-renders the component to the DOM