React S A Brief Introduction



React is a JavaScript library for creating user interfaces by Facebook and Instagram.

"Building large applications with data that changes over time."

Hello, World

A simple component

```
var HelloMessage = React.createClass({
   displayName: 'HelloMessage',
   render: function() {
     return React.DOM.div(null, "Hello ", this.props.name);
   }
});
```

```
var HelloMessage = React.createClass({
   displayName: 'HelloMessage',
   render: function() {
     return React.DOM.div(null, "Hello ", this.props.name);
   }
});
```

```
var HelloMessage = React.createClass({
    displayName: 'HelloMessage',
    render: function() {
      return React.DOM.div(null, "Hello ", this.props.name);
    }
});
```

```
var HelloMessage = React.createClass({
    displayName: 'HelloMessage',
    render: function() {
      return React.DOM.div(null, "Hello ", this.props.name);
    }
});
```

```
var HelloMessage = React.createClass({
   displayName: 'HelloMessage',
   render: function() {
     return React.DOM.div(null, "Hello ", this.props.name);
   }
});
```

```
var HelloMessage = React.createClass({
   displayName: 'HelloMessage',
   render: function() {
     return React.DOM.div(null, "Hello ", this.props.name);
   }
});
```

```
var HelloMessage = React.createClass({
    displayName: 'HelloMessage',
    render: function() {
        return React.DOM.div(null, "Hello ", this.props.name);
    }
});
    {id: 'message', className: 'hidden'}
```

```
var HelloMessage = React.createClass({
   displayName: 'HelloMessage',
   render: function() {
     return React.DOM.div(null, "Hello ", this.props.name);
   }
});
```

```
var HelloMessage = React.createClass({
  displayName: 'HelloMessage',
  render: function() {
    return React.DOM.div(null, "Hello", this.props.name);
});
           React.renderComponent(
             HelloMessage({name: "FiftyThree"}),
             mountNode
           );
```

```
var HelloMessage = React.createClass({
  displayName: 'HelloMessage',
  render: function() {
    return React.DOM.div(null, "Hello", this.props.name);
});
           React.renderComponent(
             HelloMessage({name: "FiftyThree"}),
             mountNode
           );
```

```
var HelloMessage = React.createClass({
  displayName: 'HelloMessage',
  render: function() {
    return React.DOM.div(null, "Hello", this.props.name);
});
           React.renderComponent(
             HelloMessage({name: "FiftyThree"}),
             mountNode
           );
```

```
var HelloMessage = React.createClass({
  displayName: 'HelloMessage',
  render: function() {
    return React.DOM.div(null, "Hello", this.props.name);
});
           React.renderComponent(
             HelloMessage({name: "FiftyThree"}),
             mountNode /* e.g. `document.body` */
           );
```

```
var HelloMessage = React.createClass({
  displayName: 'HelloMessage',
  render: function() {
    return React.DOM.div(null, "Hello", this.props.name);
});
           React.renderComponent(
             HelloMessage({name: "FiftyThree"}),
             mountNode
           );
```

```
var HelloMessage = React.createClass({
  displayName: 'HelloMessage',
  render: function() {
    return React.DOM.div(null, "Hello", this.props.name);
});
           React.renderComponent(
             HelloMessage({name: "FiftyThree"}),
             mountNode
           );
```

```
var HelloMessage = React.createClass({
  displayName: 'HelloMessage',
  render: function() {
    return React.DOM.div(null, "Hello", this.props.name);
});
           React.renderComponent(
             HelloMessage({name: "FiftyThree"}),
             mountNode
           );
```

```
var HelloMessage = React.createClass({
 " 'HelloMessage',
  render function() {
    return Rest.DOM.div(null, "Hello", this props.name);
});
          React.reptrComponent(
            Hellowessage({name: "FiftyThre"}),
            mountNode
```

```
/** @jsx React.DOM */
        var HelloMessage = React.createClass({
          render: function() {
            return <div>Hello {this.props.name}</div>;
        });
        var HelloMessage = React.createClass({
          displayName: 'HelloMessage',
          render: function() {
            return React.DOM.div(null, "Hello ", this.props.name);
        });
              React.renderComponent(
                <HelloMessage name="FiftyThree" />,
                mountNode
              );
<div data-reactid=".dbuc1iytj4" data-react-checksum="-695455966">
  <span data-reactid=".dbuc1iytj4.0">Hello </span>
  <span data-reactid=".dbuc1iytj4.1">FiftyThree</span>
```

```
/** @jsx React.DOM */
        var HelloMessage = React.createClass({
          render: function() {
            return <div>Hello {this.props.name}</div>;
        });
        var HelloMessage = React.createClass({
          displayName: 'HelloMessage',
          render: function() {
            return React.DOM.div(null, "Hello ", this.props.name);
        });
              React.renderComponent(
                <HelloMessage name="FiftyThree" />,
                mountNode
              );
<div data-reactid=".dbuc1iytj4" data-react-checksum="-695455966">
  <span data-reactid=".dbuc1iytj4.0">Hello </span>
  <span data-reactid=".dbuc1iytj4.1">FiftyThree</span>
```

```
/** @jsx React.DOM */
        var HelloMessage = React.createClass({
          render: function() {
            return <div>Hello {this.props.name}</div>;
        });
        var HelloMessage = React.createClass({
          displayName: 'HelloMessage',
          render: function() {
            return React.DOM.div(null, "Hello ", this.props.name);
        });
              React.renderComponent(
                <HelloMessage name="FiftyThree" />,
               mountNode
              );
<div data-reactid=".dbuc1iytj4" data-react-checksum="-695455966">
  <span data-reactid=".dbuc1iytj4.0">Hello </span>
```

FiftyThree

```
/** @jsx React.DOM */
        var HelloMessage = React.createClass({
          render: function() {
            return <div>Hello {this.props.name}</div>;
        });
        var HelloMessage = React.createClass({
          displayName: 'HelloMessage',
          render: function() {
            return React.DOM.div(null, "Hello ", this.props.name);
        });
              React.renderComponent(
                <HelloMessage name="FiftyThree" />,
               mountNode
              );
<div data-reactid=".dbuc1iytj4" data-react-checksum="-695455966">
  <span data-reactid=".dbuc1iytj4.0">Hello </span>
```

FiftyThree

```
/** @jsx React.DOM */
        var HelloMessage = React.createClass({
          render: function() {
            return <div>Hello {this.props.name}</div>;
        });
        var HelloMessage = React.createClass({
          displayName: 'HelloMessage',
          render: function() {
            return React.DOM.div(null, "Hello ", this.props.name);
        });
              React.renderComponent(
                <HelloMessage name="FiftyThree" />,
                mountNode
              );
<div data-reactid=".dbuc1iytj4" data-react-checksum="-695455966">
  <span data-reactid=".dbuc1iytj4.0">Hello </span>
  <span data-reactid=".dbuc1iytj4.1">FiftyThree</span>
```

```
/** @jsx React.DOM */
        var HelloMessage = React.createClass({
         render: function() {
           return <div>Hello {this.props.name}</div>;
        });
        displayName: 'HelloMer
         render: function()
           return Rear ... OM. div(null, "He.", this.props.name);
       });
             React.renderComponent(
              <HelloMessage name="FiftyThree" />,
              mountNode
             );
<div data-reactid=".dbuc1iytj4" data-react-checksum="-695455966">
  <span data-reactid=".dbuc1iytj4.0">Hello </span>
  <span data-reactid=".dbuc1iytj4.1">FiftyThree</span>
```

```
HelloMessage = React.createClass
  displayName: 'HelloMessage'
  render: ->
    React.DOM.div null, "Hello", @props.name
React.renderComponent(
  HelloMessage({name: "FiftyThree"}),
 mountNode
```

Dummy Image A stateful component

Dummy Image

f00

Dummy Image

React.js

0088ff

Reactijs

```
DummyImage = React.createClass
  displayName: 'DummyImage'
  getInitialState: ->
    keyword: 'Dummy Image'
    color: 'f00'
  handleKeywordChange: (event) ->
   @setState {keyword: event.target.value}
 handleColorChange: (event) ->
    {value} = event.target
    return unless value.match /// ^[A-Fa-f0-9]{0, 6}$ ///
   @setState {color: value}
 handleImageClick: (event) ->
   @setState {color: Math.random().toString(16)[2...8]}
  render: ->
    React.DOM.div null, [
     React.DOM.input
       value: @state.keyword
        onChange: @handleKeywordChange
     React.DOM.input
       value: @state.color
       onChange: @handleColorChange
     React.DOM.br null
     React.DOM.img
        onClick: @handleImageClick
       src: "http://dummyimage.com/600x400/#{@state.color}/fffff&\
          text=#{encodeURIComponent @state.keyword}"
React.renderComponent DummyImage(), document.body
```

```
DummyImage = React.createClass
  displayName: 'DummyImage'
  getInitialState: ->
    keyword: 'Dummy Image'
    color: 'f00'
 handleKeywordChange: (event) ->
   @setState {keyword: event.target.value}
 handleColorChange: (event) ->
    {value} = event.target
    return unless value.match /// ^[A-Fa-f0-9]{0, 6}$ ///
   @setState {color: value}
 handleImageClick: (event) ->
   @setState {color: Math.random().toString(16)[2...8]}
  render: ->
    React.DOM.div null, [
     React.DOM.input
       value: @state.keyword
        onChange: @handleKeywordChange
     React.DOM.input
       value: @state.color
       onChange: @handleColorChange
     React.DOM.br null
     React.DOM.img
        onClick: @handleImageClick
       src: "http://dummyimage.com/600x400/#{@state.color}/fffff&\
          text=#{encodeURIComponent @state.keyword}"
React.renderComponent DummyImage(), document.body
```

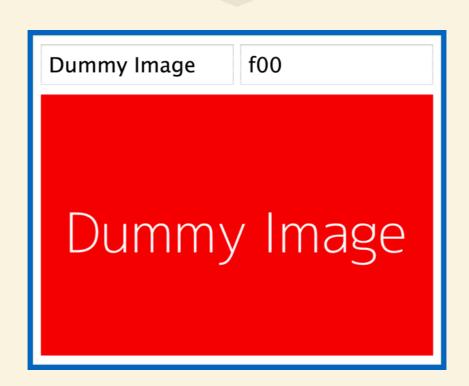
DummyImage = React.createClass
 displayName: 'DummyImage'

```
DummyImage = React.createClass
  displayName: 'DummyImage'
  getInitialState: ->
    keyword: 'Dummy Image'
    color: 'f00'
 handleKeywordChange: (event) ->
   @setState {keyword: event.target.value}
 handleColorChange: (event) ->
    {value} = event.target
    return unless value.match /// ^[A-Fa-f0-9]{0, 6}$ ///
   @setState {color: value}
 handleImageClick: (event) ->
   @setState {color: Math.random().toString(16)[2...8]}
  render: ->
   React.DOM.div null, [
     React.DOM.input
       value: @state.keyword
        onChange: @handleKeywordChange
     React.DOM.input
       value: @state.color
       onChange: @handleColorChange
     React.DOM.br null
     React.DOM.img
        onClick: @handleImageClick
       src: "http://dummyimage.com/600x400/#{@state.color}/fffff&\
          text=#{encodeURIComponent @state.keyword}"
React.renderComponent DummyImage(), document.body
```

```
render: ->
 React.DOM.div null, [
   React.DOM.input
     value: @state.keyword
      onChange: @handleKeywordChange
   React.DOM.input
     value: @state.color
      onChange: @handleColorChange
   React.DOM.br null
   React.DOM.img
      onClick: @handleImageClick
      src: "http://dummyimage.com/600x400/#{@state.color}/fffff%\
       text=#{encodeURIComponent @state.keyword}"
```



```
render: ->
 React.DOM.div null, [
   React.DOM.input
     value: @state.keyword
      onChange: @handleKeywordChange
   React.DOM.input
     value: @state.color
      onChange: @handleColorChange
   React.DOM.br null
   React.DOM.img
      onClick: @handleImageClick
      src: "http://dummyimage.com/600x400/#{@state.color}/fffff&\
       text=#{encodeURIComponent @state.keyword}"
```



```
render: ->
 React.DOM.div null, [
   React.DOM.input
     value: @state.keyword
      onChange: @handleKeywordChange
   React.DOM.input
     value: @state.color
      onChange: @handleColorChange
   React.DOM.br null
   React.DOM.img
      onClick: @handleImageClick
      src: "http://dummyimage.com/600x400/#{@state.color}/fffff&\
       text=#{encodeURIComponent @state.keyword}"
```



```
render: ->
 React.DOM.div null, [
   React.DOM.input
     value: @state.keyword
      onChange: @handleKeywordChange
   React.DOM.input
     value: @state.color
      onChange: @handleColorChange
   React.DOM.br null
   React.DOM.img
      onClick: @handleImageClick
      src: "http://dummyimage.com/600x400/#{@state.color}/fffff&\
       text=#{encodeURIComponent @state.keyword}"
```



```
render: ->
 React.DOM.div null, [
   React.DOM.input
     value: @state.keyword
     onChange: @handleKeywordChange
   React.DOM.input
     value: @state.color
      onChange: @handleColorChange
   React.DOM.br null
   React.DOM.img
      onClick: @handleImageClick
      src: "http://dummyimage.com/600x400/#{@state.color}/fffff&\
       text=#{encodeURIComponent @state.keyword}"
```



```
render: ->
 React.DOM.div null, [
   React.DOM.input
     value: @state.keyword
      onChange: @handleKeywordChange
   React.DOM.input
     value: @state.color
      onChange: @handleColorChange
   React.DOM.br null
   React.DOM.img
      onClick: @handleImageClick
      src: "http://dummyimage.com/600x400/#{@state.color}/fffff&\
       text=#{encodeURIComponent @state.keyword}"
```



```
render: ->
 React.DOM.div null, [
   React.DOM.input
     value: @state.keyword
      onChange: @handleKeywordChange
   React.DOM.input
     value: @state.color
      onChange: @handleColorChange
   React.DOM.br null
   React.DOM.img
      onClick: @handleImageClick
      src: "http://dummyimage.com/600x400/#{@state.color}/fffff&\
       text=#{encodeURIComponent @state.keyword}"
```



```
render: ->
 React.DOM.div null, [
   React.DOM.input
     value: @state.keyword
      onChange: @handleKeywordChange
   React.DOM.input
     value: @state.color
      onChange: @handleColorChange
   React.DOM.br null
   React.DOM.img
      onClick: @handleImageClick
      src: "http://dummyimage.com/600x400/#{@state.color}/fffff&\
       text=#{encodeURIComponent @state.keyword}"
```



```
render: ->
 React.DOM.div null, [
   React.DOM.input
     value: @state.keyword
      onChange: @handleKeywordChange
   React.DOM.input
     value: @state.color
      onChange: @handleColorChange
   React.DOM.br null
   React.DOM.img
      onClick: @handleImageClick
      src: "http://dummyimage.com/600x400/#{@state.color}/fffff&\
       text=#{encodeURIComponent @state.keyword}"
```



```
render: ->
 React.DOM.div null, [
   React.DOM.input
     value: @state.keyword
      onChange: @handleKeywordChange
   React.DOM.input
     value: @state.color
      onChange: @handleColorChange
   React.DOM.br null
   React.DOM.img
      onClick: @handleImageClick
      src: "http://dummyimage.com/600x400/#{@state.color}/ffffff&\
       text=#{encodeURIComponent @state.keyword}"
```



```
render: ->
 React.DOM.div null, [
   React.DOM.input
     value: @state.keyword
      onChange: @handleKeywordChange
   React.DOM.input
     value: @state.color
      onChange: @handleColorChange
   React.DOM.br null
   React.DOM.img
      onClick: @handleImageClick
      src: "http://dummyimage.com/600x400/#{@state.color}/fffff&\
       text=#{encodeURIComponent @state.keyword}"
```



```
render: ->
 React.DOM.div null, [
   React.DOM.input
     value: @state.keyword
      onChange: @handleKeywordChange
   React.DOM.input
     value: @state.color
      onChange: @handleColorChange
   React.DOM.br null
   React.DOM.img
      onClick: @handleImageClick
      src: "http://dummyimage.com/600x400/#{@state.color}/fffff%\
       text=#{encodeURIComponent @state.keyword}"
```



```
render: ->
 React.DOM.div null, [
   React.DOM.input
     value: @state.keyword
      onChange: @handleKeywordChange
   React.DOM.input
     value: @state.color
      onChange: @handleColorChange
   React.DOM.br null
   React.DOM.img
      onClick: @handleImageClick
      src: "http://dummyimage.com/600x400/#{@state.color}/fffff&\
       text=#{encodeURIComponent @state.keyword}"
```



```
render: ->
 React.DOM.div null, [
   React.DOM.input
     value: @state.keyword
      onChange: @handleKeywordChange
   React.DOM.input
     value: @state.color
      onChange: @handleColorChange
   React.DOM.br null
   React.DOM.img
      onClick: @handleImageClick
      src: "http://dummyimage.com/600x400/#{@state.color}/fffff&\
       text=#{encodeURIComponent @state.keyword}"
```



```
render: ->
 React.DOM.div null, [
   React.DOM.input
     value: @state.keyword
      onChange: @handleKeywordChange
   React.DOM.input
     value: @state.color
      onChange: @handleColorChange
   React.DOM.br null
   React.DOM.img
      onClick: @handleImageClick
      src: "http://dummyimage.com/600x400/#{@state.color}/fffff%\
       text=#{encodeURIComponent @state.keyword}"
```



```
render: ->
 React.DOM.div null, [
   React.DOM.input
     value: @state.keyword
      onChange: @handleKeywordChange
   React.DOM.input
     value: @state.color
      onChange: @handleColorChange
   React.DOM.br null
   React.DOM.img
      onClick: @handleImageClick
      src: "http://dummyimage.com/600x400/#{@state.color}/fffff&\
       text=#{encodeURIComponent @state.keyword}"
```



```
render: ->
 React.DOM.div null, [
   React.DOM.input
     value: @state.keyword
      onChange: @handleKeywordChange
   React.DOM.input
     value: @state.color
      onChange: @handleColorChange
   React.DOM.br null
   React.DOM.img
      onClick: @handleImageClick
      src: "http://dummyimage.com/600x400/#{@state.color}/fffff%\
       text=#{encodeURIComponent @state.keyword}"
```



```
DummyImage = React.createClass
  displayName: 'DummyImage'
  getInitialState: ->
    keyword: 'Dummy Image'
    color: 'f00'
  handleKeywordChange: (event) ->
   @setState {keyword: event.target.value}
  handleColorChange: (event) ->
    {value} = event.target
    return unless value.match /// ^[A-Fa-f0-9]{0, 6}$ ///
   @setState {color: value}
  handleImageClick: (event) ->
   @setState {color: Math.random().toString(16)[2...8]}
  render: ->
    React.DOM.div null, [
     React.DOM.input
       value: @state.keyword
        onChange: @handleKeywordChange
     React.DOM.input
       value: @state.color
       onChange: @handleColorChange
     React.DOM.br null
     React.DOM.img
        onClick: @handleImageClick
       src: "http://dummyimage.com/600x400/#{@state.color}/fffff&\
          text=#{encodeURIComponent @state.keyword}"
React.renderComponent DummyImage(), document.body
```

```
getInitialState: ->
  keyword: 'Dummy Image'
  color: 'f00'
handleKeywordChange: (event) ->
  @setState {keyword: event.target.value}
handleColorChange: (event) ->
  {value} = event.target
  return unless value.match /// ^[A-Fa-f0-9]{0, 6}$ ///
  @setState {color: value}
handleImageClick: (event) ->
  @setState {color: Math.random().toString(16)[2...8]}
```

```
getInitialState: ->
  keyword: 'Dummy Image'
  color: 'f00' # red
handleKeywordChange: (event) ->
  @setState {keyword: event.target.value}
handleColorChange: (event) ->
  {value} = event.target
  return unless value.match /// ^[A-Fa-f0-9]{0, 6}$ ///
  @setState {color: value}
handleImageClick: (event) ->
  @setState {color: Math.random().toString(16)[2...8]}
```

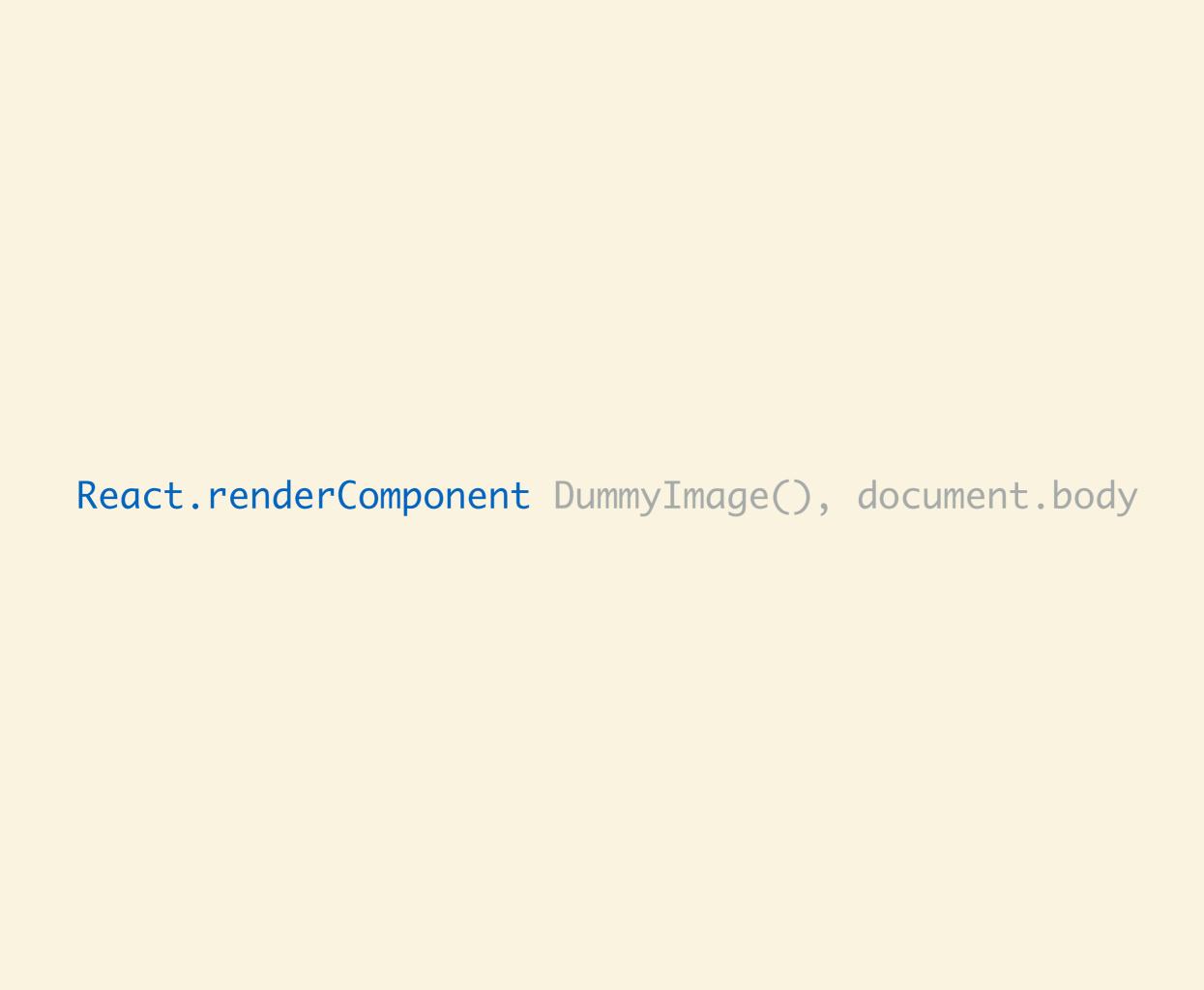
```
getInitialState: ->
  keyword: 'Dummy Image'
  color: 'f00'
handleKeywordChange: (event) ->
  @setState {keyword: event.target.value}
handleColorChange: (event) ->
  {value} = event.target
  return unless value.match /// ^[A-Fa-f0-9]{0, 6}$ ///
  @setState {color: value}
handleImageClick: (event) ->
  @setState {color: Math.random().toString(16)[2...8]}
```

```
getInitialState: ->
  keyword: 'Dummy Image'
  color: 'f00'
handleKeywordChange: (event) ->
  @setState {keyword: event.target.value}
handleColorChange: (event) ->
  {value} = event.target
  return unless value.match /// ^[A-Fa-f0-9]{0, 6}$ ///
  @setState {color: value}
handleImageClick: (event) ->
 @setState {color: Math.random().toString(16)[2...8]}
```

```
getInitialState: ->
  keyword: 'Dummy Image'
  color: 'f00'
handleKeywordChange: (event) ->
  @setState {keyword: event.target.value}
handleColorChange: (event) ->
  {value} = event.target
  return unless value.match /// ^[A-Fa-f0-9]{0, 6}$ ///
  @setState {color: value}
handleImageClick: (event) ->
  @setState {color: Math.random().toString(16)[2...8]}
```

```
DummyImage = React.createClass
 displayName: 'DummyImage'
 getInitialState: ->
   keyword: 'Dummy Image'
   color: 'f00'
 handleKeywordChange: (event) ->
   @setState {keyword: event.target.value}
 handleColorChange: (event) ->
   {value} = event.target
   return unless value.match /// ^[A-Fa-f0-9]{0, 6}$ ///
   @setState {color: value}
 handleImageClick: (event) ->
   @setState {color: Math.random().toString(16)[2...8]}
 render: ->
   React.DOM.div null, [
     React.DOM.input
       value: @state.keyword
       onChange: @handleKeywordChange
     React.DOM.input
       value: @state.color
       onChange: @handleColorChange
     React.DOM.br null
     React.DOM.img
       onClick: @handleImageClick
       src: "http://dummyimage.com/600x400/#{@state.color}/fffff&\
         text=#{encodeURIComponent @state.keyword}"
```

React.renderComponent DummyImage(), document.body

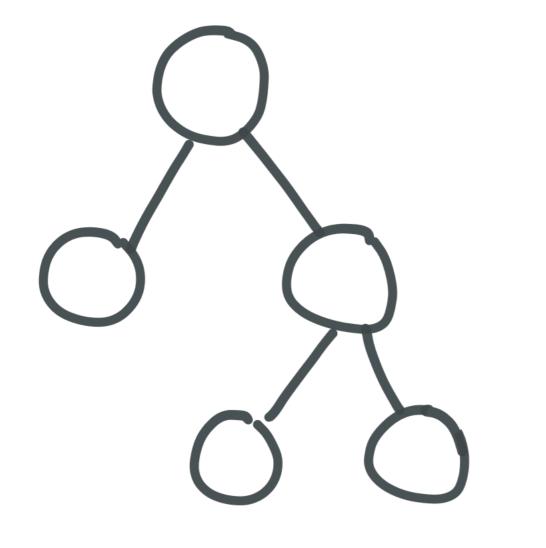


React.renderComponent DummyImage(), document.body

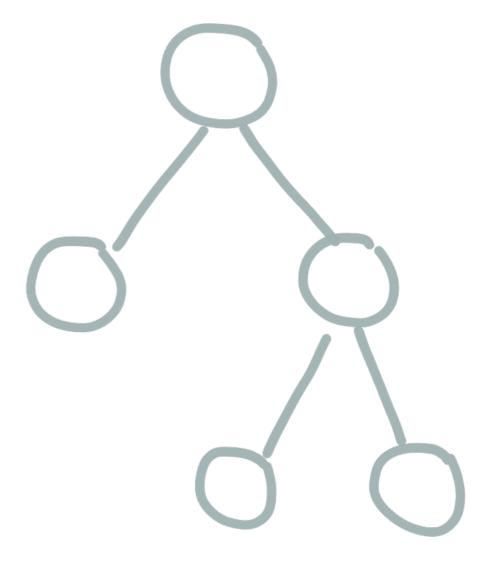
React.renderComponent DummyImage(), document.body

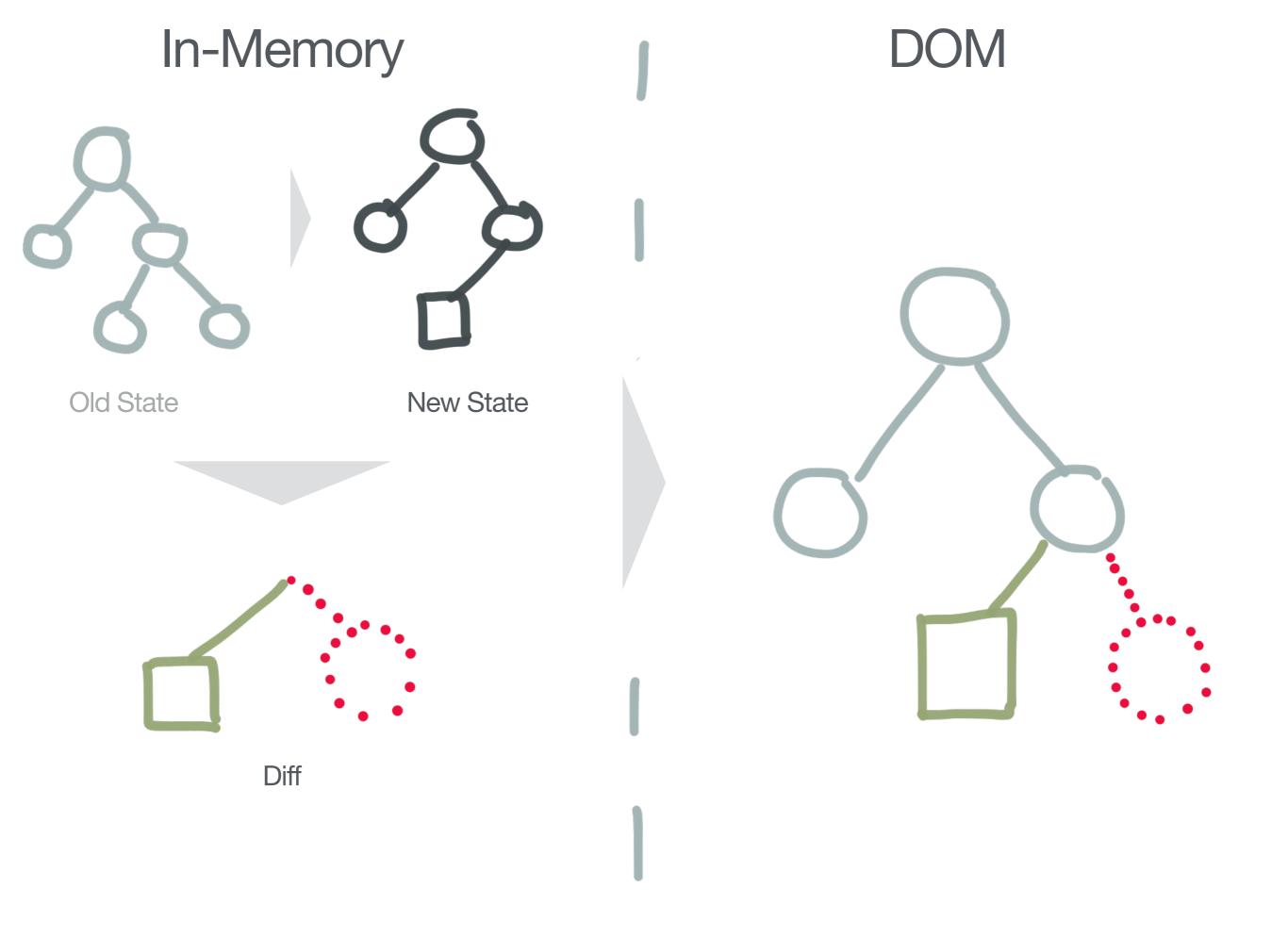
Behind the Scenes

In-Memory



DOM





Benefits

simple

fast

synthetic events

Goodies

PropTypes

```
React.createClass
  displayName: 'Avatar'
  propTypes:
    # Required
    user: React.PropTypes.object.isRequired
    # Optional
    includeLink: React.PropTypes.bool
    size: React.PropTypes.oneOf ['micro', 'small',
      'medium', 'large']
```

```
Avatar
  includeLink: 'http://gasi.ch/'
  size: 'medium'
```

```
React.createClass
  displayName: 'Avatar'
  propTypes:
    # Required
    user: React.PropTypes.object.isRequired
    # Optional
    includeLink: React.PropTypes.bool
    size: React.PropTypes.oneOf ['micro', 'small',
      'medium', 'large']
```

```
Avatar
  includeLink: 'http://gasi.ch/'
  size: 'medium'
```

```
React.createClass
  displayName: 'Avatar'
  propTypes:
    # Required
    user: React.PropTypes.object.isRequired
    # Optional
    includeLink: React.PropTypes.bool
    size: React.PropTypes.oneOf ['micro', 'small',
      'medium', 'large']
```

```
React.createClass
  displayName: 'Avatar'
  propTypes:
```

user: React.PropTypes.object.isRequired

Optional

Required

```
includeLink: React.PropTypes.bool
size: React.PropTypes.oneOf ['micro', 'small',
    'medium', 'large']
```

```
React.createClass
  displayName: 'Avatar'
  propTypes:
   # Required
    user: React.PropTypes.object.isRequired
    # Optional
    includeLink: React.PropTypes.bool
    size: React.PropTypes.oneOf ['micro', 'small',
      'medium', 'large']
```

```
React.createClass
  displayName: 'Avatar'
  propTypes:
    # Required
    user: React.PropTypes.object.isRequired
    # Optional
    includeLink: React.PropTypes.bool
    size: React.PropTypes.oneOf ['micro', 'small',
      'medium', 'large']
```

Server-Side Rendering

```
app.get '/', (req, res) ->
    props =
        currentUser:
            firstName: 'Daniel'
            lastName: 'Gasienica'
    content = React.renderComponentToString App props
    res.render 'app.toffee', {content, props}
```

```
<!doctype html>
<html>
<body>
    #{raw content}
    <script src="http://fb.me/react-0.10.0.js"></script>
    <script src="/scripts/app.js"></script>
    <script>
        React.renderComponent(App(#{props}), document.body);
    </script>
</body>
</html>
```

```
app.get '/', (req, res) ->
    props =
        currentUser:
            firstName: 'Daniel'
            lastName: 'Gasienica'
    content = React.renderComponentToString App props
    res.render 'app.toffee', {content, props}
```

```
<!doctype html>
<html>
<body>
    #{raw content}
    <script src="http://fb.me/react-0.10.0.js"></script>
    <script src="/scripts/app.js"></script>
    <script>
        React.renderComponent(App(#{props}), document.body);
    </script>
</body>
</html>
```

```
app.get '/', (req, res) ->
    props =
        currentUser:
            firstName: 'Daniel'
            lastName: 'Gasienica'
    content = React.renderComponentToString App props
    res.render 'app.toffee', {content, props}
```

```
<!doctype html>
<html>
<body>
    #{raw content}
    <script src="http://fb.me/react-0.10.0.js"></script>
    <script src="/scripts/app.js"></script>
    <script>
        React.renderComponent(App(#{props}), document.body);
    </script>
</body>
</html>
```

```
app.get '/', (req, res) ->
    props =
        currentUser:
            firstName: 'Daniel'
            lastName: 'Gasienica'
    content = React.renderComponentToString App props
    res.render 'app.toffee', {content, props}
```

```
<!doctype html>
<html>
<body>
    #{raw content}
    <script src="http://fb.me/react-0.10.0.js"></script>
    <script src="/scripts/app.js"></script>
    <script>
        React.renderComponent(App(#{props}), document.body);
    </script>
</body>
</html>
```

```
app.get '/', (req, res) ->
    props =
        currentUser:
            firstName: 'Daniel'
            lastName: 'Gasienica'
    content = React.renderComponentToString App props
    res.render 'app.toffee', {content, props}
```

```
<!doctype html>
<html>
<body>
    #{raw content}
    <script src="http://fb.me/react-0.10.0.js"></script>
    <script src="/scripts/app.js"></script>
    <script>
        React.renderComponent(App(#{props}), document.body);
    </script>
</body>
</html>
```

```
app.get '/', (req, res) ->
    props =
        currentUser:
            firstName: 'Daniel'
            lastName: 'Gasienica'
    content = React.renderComponentToString App props
    res.render 'app.toffee', {content, props}
```

```
<!doctype html>
<html>
<body>
    #{raw content}
    <script src="http://fb.me/react-0.10.0.js"></script>
    <script src="/scripts/app.js"></script>
    <script>
        React.renderComponent(App(#{props}), document.body);
    </script>
</body>
</html>
```

```
app.get '/', (req, res) ->
    props =
        currentUser:
            firstName: 'Daniel'
            lastName: 'Gasienica'
    content = React.renderComponentToString App props
    res.render 'app.toffee', {content, props}
```

```
<!doctype html>
<html>
<body>
    #{raw content}
    <script src="http://fb.me/react-0.10.0.js"></script>
    <script src="/scripts/app.js"></script>
    <script>
    React.renderComponent(App(#{props}), document.body);
    </script>
</body>
</html>
```

CSSTransitionGroup

```
render: ->
  React.addons.CSSTransitionGroup
    transitionName: 'notification'
,
  if @state.notification
    Notification {message: @state.notification}
  else
    []
```

Enter Styles*

```
.notification
&-enter
    opacity: 0.01
    transition: opacity 0.2s ease-in
    &-active
    opacity: 1
```

```
.notification
&-leave
    opacity: 1
    transition: opacity 0.1s ease-in
    &-active
    opacity: 0.01
```

```
render: ->
  React.addons.CSSTransitionGroup
    transitionName: 'notification'
,
  if @state.notification
    Notification {message: @state.notification}
  else
  []
```

Enter Styles*

```
.notification
&-enter
   opacity: 0.01
   transition: opacity 0.2s ease-in
&-active
   opacity: 1
```

```
.notification
&-leave
    opacity: 1
    transition: opacity 0.1s ease-in
    &-active
    opacity: 0.01
```

Enter Styles*

```
.notification
&-enter
   opacity: 0.01
   transition: opacity 0.2s ease-in
   &-active
   opacity: 1
```

Leave Styles*

```
.notification
&-leave
    opacity: 1
    transition: opacity 0.1s ease-in
    &-active
    opacity: 0.01
```

.notification-enter-active

```
render: ->
  React.addons.CSSTransitionGroup
    transitionName: 'notification'
    if @state.notification
       Notification {message: @state.notification}
    else
       []
```

Enter Styles*

```
.notification
```

```
&-enter
  opacity: 0.01
  transition: opacity 0.2s ease-in

&-active
  opacity: 1
```

```
.notification
&-leave
    opacity: 1
    transition: opacity 0.1s ease-in
    &-active
    opacity: 0.01
```

```
render: ->
  React.addons.CSSTransitionGroup
    transitionName: 'notification'
,
  if @state.notification
    Notification {message: @state.notification}
  else
    []
```

Enter Styles*

```
.notification
&-enter
   opacity: 0.01
   transition: opacity 0.2s ease-in
   &-active
   opacity: 1
```

```
.notification
&-leave
   opacity: 1
   transition: opacity 0.1s ease-in
   &-active
   opacity: 0.01
```

```
render: ->
  React.addons.CSSTransitionGroup
    transitionName: 'notification'
,
  if @state.notification
    Notification {message: @state.notification}
  else
    □
```

Enter Styles*

```
.notification
&-enter
   opacity: 0.01
   transition: opacity 0.2s ease-in

&-active
   opacity: 1
```

```
.notification
&-leave
    opacity: 1
    transition: opacity 0.1s ease-in

&-active
    opacity: 0.01
```

Why am I excited about React?

simple

declarative

composable

encourages good practices

CoffeeScript Streamline.js React.js
Node.js Neo4j

Give It Five Minutes

or: write one component

Questions?