# INTRO TO REACT & REDUX

@OLARCLARA

Chrome File Edit View History Bookmarks People Window Help 100% ABC Wed 11:41 AM Maria Clara Santana

To Do App

Maria Clara

localhost:3000

# To Do List

Insert here your to do!

ADD

Elements Console Sources React

Highlight Updates Highlight Search

Search (text or /regex/)

```
<Provider store={dispatch: dispatch(), subscribe: subscribe(),
  <App>
    <Container className="App"> == $r
      <div className="ui container App">
        ▶<Header>…</Header>
        ▶<Connect(AddTodo)>…</Connect(AddTodo)>
        ▶<Connect(TodoList)>…</Connect(TodoList)>
        </div>
      </Container>
    </App>
  </Provider>
```

Provider App Container

```
Props read-only
  ▶ children: Array[3]
    className: "App"

/Users/mariaclarasantana/Documents/react-
intro/src/components/App.js:8
```

Console

top Filter Default levels

Hide network

Preserve log

Selected context only

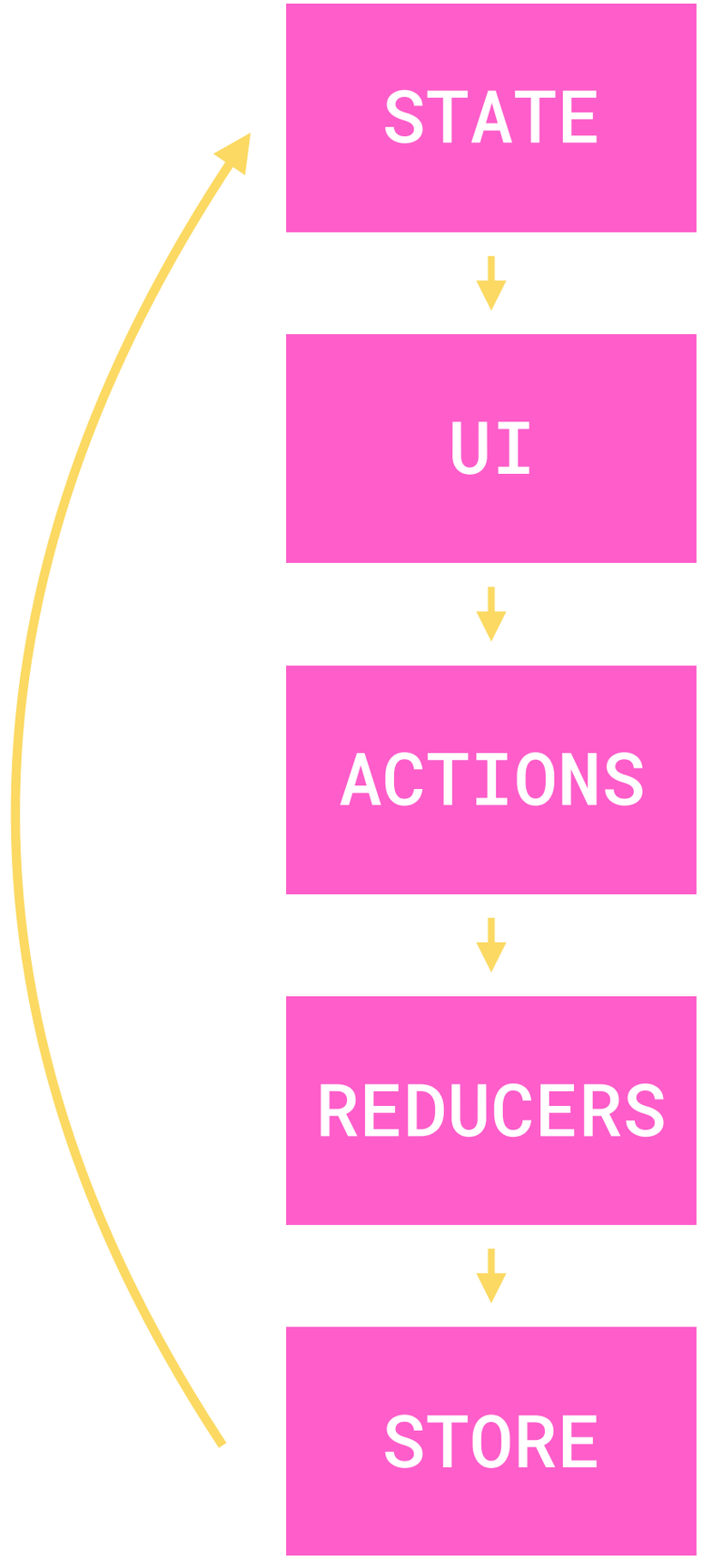
User messages only

Log XMLHttpRequests

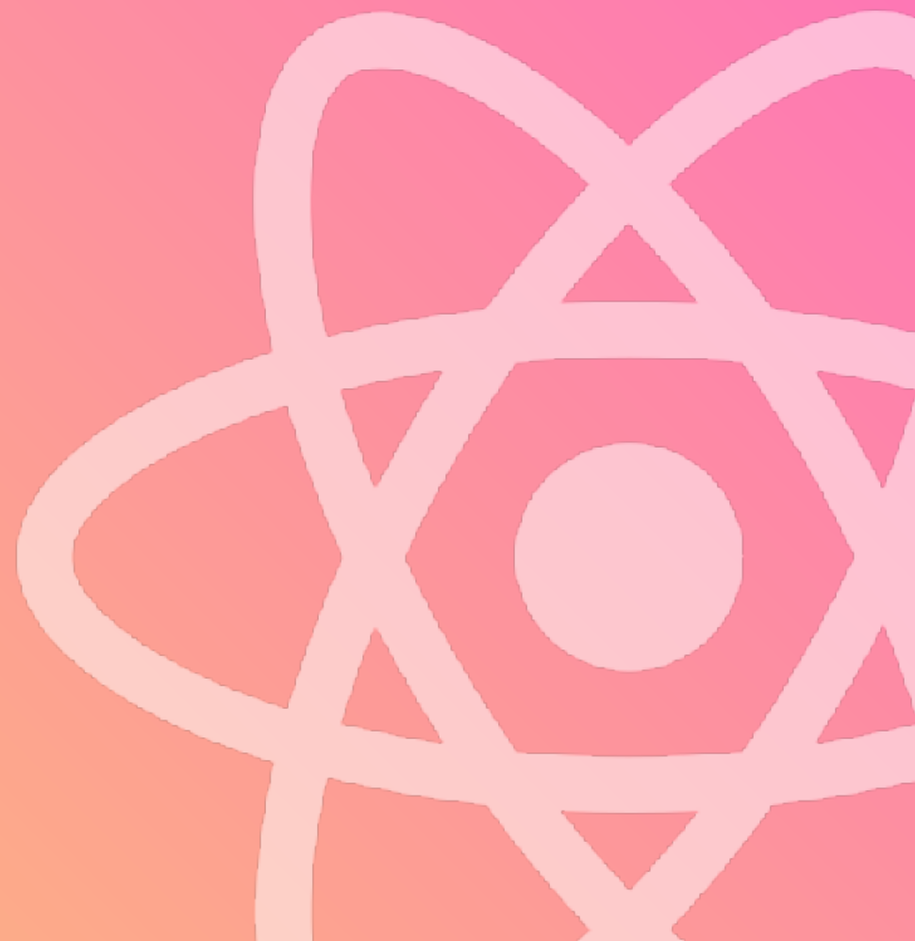
Show timestamps

Autocomplete from history

>


STATE
UI
ACTIONS
REDUCERS
STORE

# REACT COMPONENTS



```
import React, { Component } from 'react'

class App extends Component {
  render() {
    return(
      <div className="App">
        <h1>Simple Stateless React Component</h1>
      </div>
    )
  }
}
```

# CAVEATS

- Components must return a single root element;
- All React components must act like pure functions with respect to their props;

# STYLING REACT COMPONENTS

```
$ npm i --save semantic-ui-css

// on index.js
import 'semantic-ui-css/semantic.min.css'
```

---

```
$ npm i --save semantic-ui-react

// example
import React from 'react'
import { Button } from 'semantic-ui-react'

const ButtonExampleButton = () => (
  <Button>
    Click Here
  </Button>
)

export default ButtonExampleButton
```

```
$ npm i —save-dev node-sass-chokidar

// add following scripts on package.json
"build-css": "node-sass-chokidar --include-path ./src --
include-path ./node_modules src/ -o src/",
"watch-css": "npm run build-css && node-sass-chokidar --
include-path ./src --include-path ./node_modules src/ -o src/
--watch --recursive",
```

# INTEGRATING WITH REDUX

```
$ npm i –save react react-redux
```

---

```
const initialState = []

const todos = (state = initialState, action) ⇒ {
  switch (action.type) {
    case 'ADD_TODO':
      return [
        ... state,
        {
          id: action.id,
          content: action.content,
          date: action.date
        }
      ]
    default:
      return state
  }
}

export default todos
```

```
let todoId = 0;

export const addTodo = (content, date) => ({
  type: 'ADD_TODO',
  id: todoId++,
  content,
  date
})
```

```
import React from 'react'
import { render } from 'react-dom'
import { createStore } from 'redux'
import { Provider } from 'react-redux'
import App from './components/App'
import reducer from './reducers'

const store = createStore(reducer)

render(
  <Provider store={store}>
    <App />
  </Provider>,
  document.getElementById('root')
)
```

```jsx
import React, { Component } from 'react'
import moment from 'moment'
import { bindActionCreators } from 'redux'
import { connect } from 'react-redux'
import { addTodo } from '../actions'
import { Form } from 'semantic-ui-react'

export class AddTodo extends Component {
  constructor(props) {
    super(props)
    this.state = { todo: '' }
    this.handleChange = this.handleChange.bind(this);
    this.handleAddTodo = this.handleAddTodo.bind(this);
  }

  handleChange(e) { this.setState({ [e.target.id]: e.target.value }) }

  handleAddTodo(e) {
    if (this.state.todo.length <= 0) return

    let date = moment().format('DD-MM-YYYY')
    this.props.addTodo(this.state.todo, date)
    this.setState({ todo: '' })
  }

  render() {
    return(
      <Form>
        <Form.TextArea id='todo' value={this.state.todo} onChange={this.handleChange}
        autoHeight placeholder='Insert here your to do!' />
        <Form.Button type='submit' onClick={this.handleAddTodo}>ADD</Form.Button>
      </Form>
    )
  }
}

const mapDispatchToProps = dispatch => bindActionCreators({
  addTodo: addTodo
}, dispatch)
export default connect(null, mapDispatchToProps)(AddTodo)
```