

INTRODUCING REACT

QUICK INTRODUCTION ON WHY REACT IS DIFFERENT

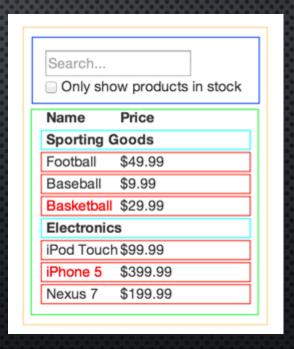
WHAT IS REACT?

- Developed and maintained by Facebook and Instagram
- JAVASCRIPT LIBRARY TO BUILD USER INTERFACES
- Represent the V of the MVC pattern
- Based on Components
- CAN BE PARTIALLY USED ON AN EXISTING STACK
- REACT NATIVE FOR MOBILE APPS.

BASED ON COMPONENTS

- COMPONENTS ARE INDEPENDENT, REUSABLE PIECES.
- EACH PIECE IS IN ISOLATION.
- CONTAINER > TABLE > TITLES & PRODUCTS
- SEARCH

• → 5 COMPONENTS



CREATED WITH JSX

• JSX is a JavaScript preprocessor

ADDS XML SYNTAX TO JAVASCRIPT

• It's not HTML or JavaScript syntax, it's JSX

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

A COMPONENT HAVE METHODS

LIFECYCLE

- EACH COMPONENT HAVE 15 METHODS
 - Mounting
 - Unmounting
 - UPDATING
- MANDATORY:
 - RENDER()

A COMPONENT HAVE PROPS

PROPS ARE READ-ONLY

 CAN BE COMPARED TO DEPENDENCY INJECTION

 PROPS POPULATED BY OWNER COMPONENT

TOP-DOWN DATA FLOW

A COMPONENT HAVE A STATE

• STATE IS PRIVATE AND FULLY CONTROLLED BY COMPONENT

• Updating state re-renders the component

• IF IT'S NOT USED IN RENDER(), IT SHOULDN'T BE IN THE STATE

```
class Clock extends React.Component
constructor(props) {
  super(props);
  this.state = {date: new Date()};
componentDidMount() {
    () => this.tick(),
    1000
componentWillUnmount() {
tick() {
  this.setState({
    date: new Date()
render()
  return (
      <h1>Hello, world!</h1>
      <h2>It is {this.state.date.toLocaleTimeString()}.</h2>
    </div>
```

CODE EXAMPLE

• RECAT: AN APP TO LOAD CAT PICTURES USING REACT AND A THIRD PARTY API

• URL: HTTPS://GITHUB.COM/GRENOULT/RECAT

