

A Practical Start with React

SHOULD YOU REACT?



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Module Overview



What we're building

What you should know

Why React is great

Working with components

React compared to Angular and Vue



Prerequisites

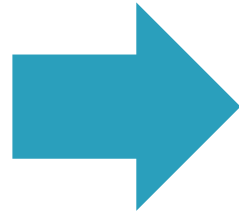
JavaScript (ES 2017/ES8)

Bootstrap 4



Element Tree

```
<div class="split">  
  <input />  
  <p>Sunday 4:00 pm</p>  
</div>
```



```
React.createElement(  
  "div",  
  { className: "split" },  
  React.createElement("input"),  
  React.createElement(  
    "p",  
    null,  
    "Sunday 4:00 pm")  
);
```



What is displayed in the browser is a reflection of the state of the application.



Tree Reconciliation

```
React.createElement(  
  "div",  
  { className: "split" },  
    React.createElement("input"),  
    React.createElement(  
      "p",  
      null,  
      "Sunday 4:01 pm")  
);
```

```
React.createElement(  
  "div",  
  { className: "split" },  
    React.createElement("input"),  
    React.createElement(  
      "p",  
      null,  
      "Sunday 4:00 pm")  
);
```



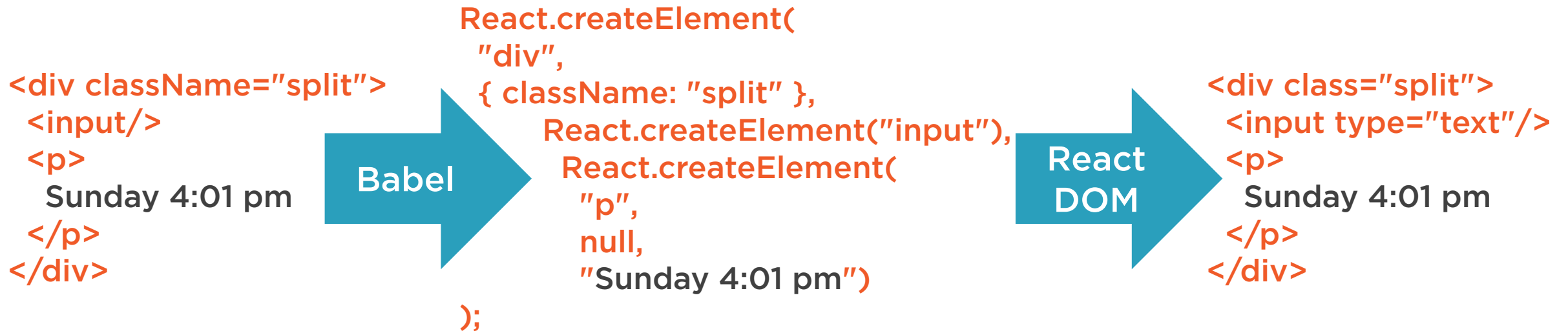
JSX

```
React.createElement(  
  "div",  
  { className: "split" },  
    React.createElement("input"),  
    React.createElement(  
      "p",  
      null,  
      "Sunday 4:01 pm")  
);
```

```
<div className="split">  
  <input/>  
  <p>  
    Sunday 4:01 pm  
  </p>  
</div>
```



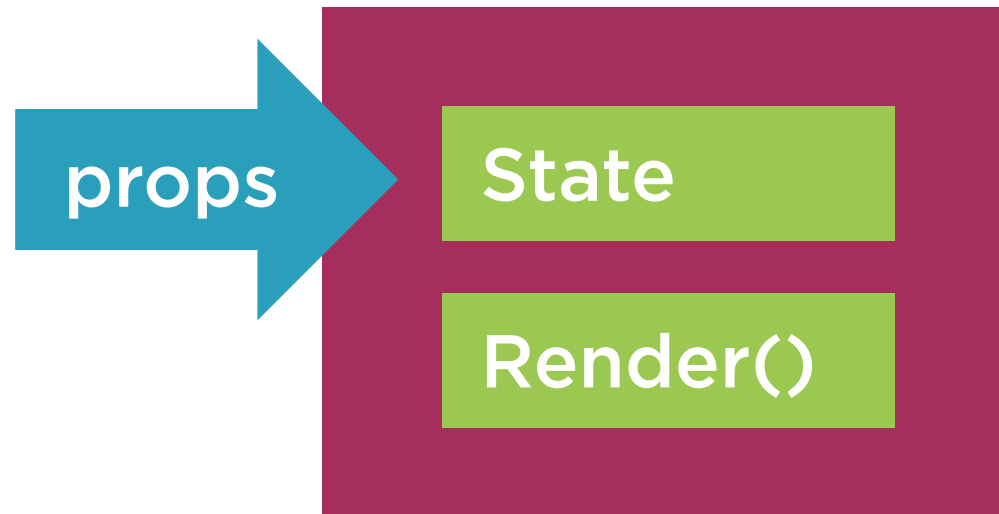
The React Workflow



React is a javascript library
to create and compose
components

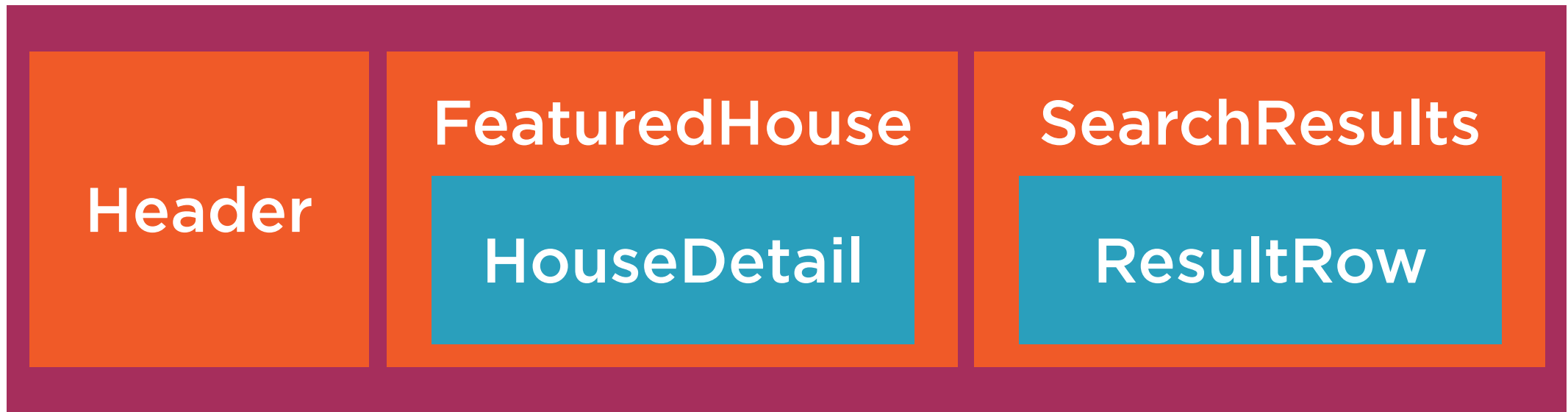


Component

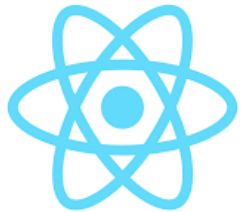


`<Component prop="value"/>`

Composition



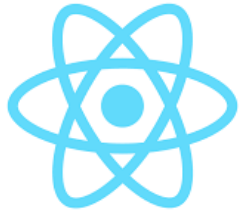
Comparing React to Others



These are all excellent products



Comparing React to Others



React	Angular	Vue
Components	Components	Components
Library	Framework	Library
Facebook	Google	Community
MIT	MIT	MIT
1 way data-binding	2 way data-binding	1 way data-binding
UI in JavaScript	UI in HTML	UI in HTML



Summary



Smart UI updates

Tree reconciliation

JSX

Components

Alternatives

