Ul Development with React



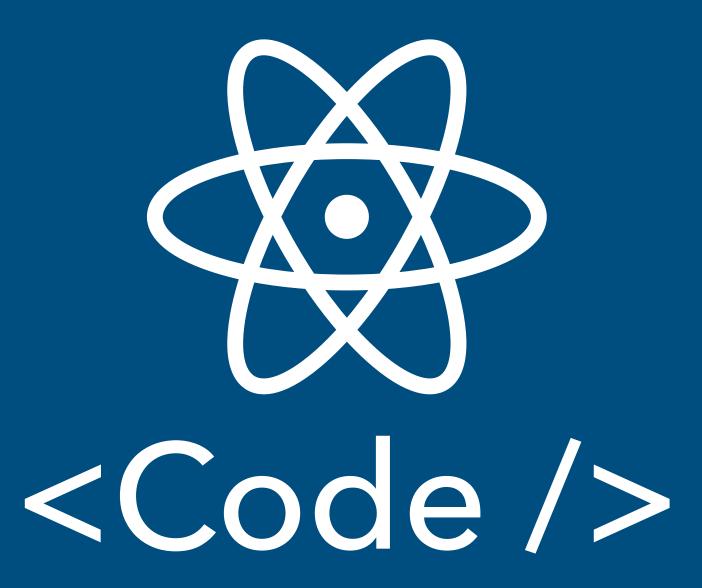
Senior Director, Technology

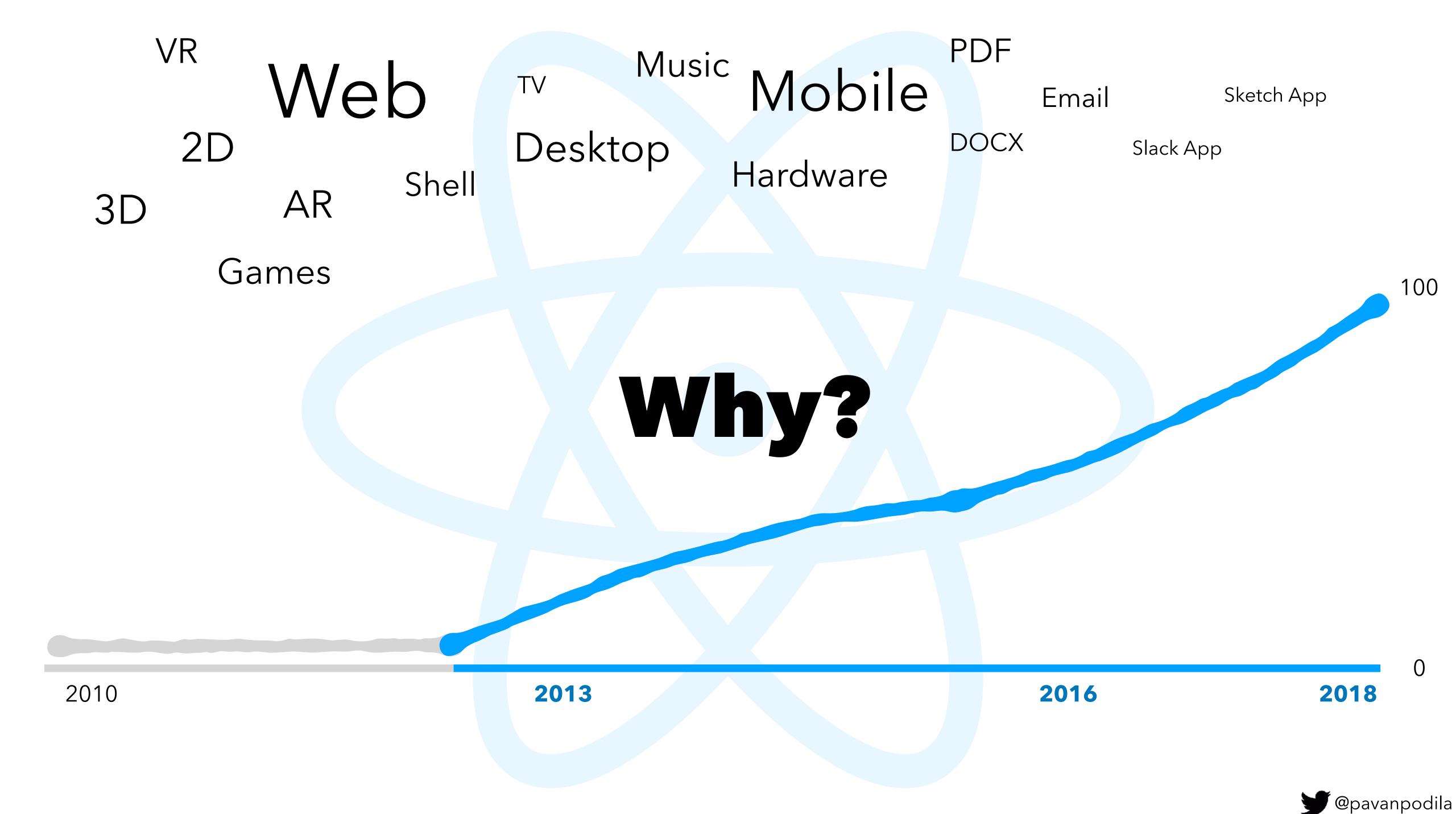
PUBLICIS. SAPIENT





Philosophy





```
'.../components/domain-components';
const tick = new Howl({
    src: [tickSound],
});
class TickSound extends React.Component {
    render() {
         tick.play();
         return null;
export function AnalogFace2() {
     const strapColor = '#ff3987';
     return (
          <section style={{
              flex: 1, display: 'flex',
               justifyContent: 'center',
               alignSelf: 'stretch', alignItems: 'center',
               <Watchshell strapColor={strapColor} rimColor={'#940038'} faceColor={'#111'}</pre>
               background: 'linear-gradient(#eee, #aaa)'
                          ({ config, time }) => {
                                 *** hours = hr >= 12 ? hr - 12 : hr;
                                                                wh 12 config.height | 2) - config.rin
                              let hr = time.hours();
```

```
<html>
                 XIVL
    <head
        <tittesExample<tit</pre>
        link rel="stylesheet" href="styl
    </head>
       Behavior
     JavaScript
                       ">Header</a>
```

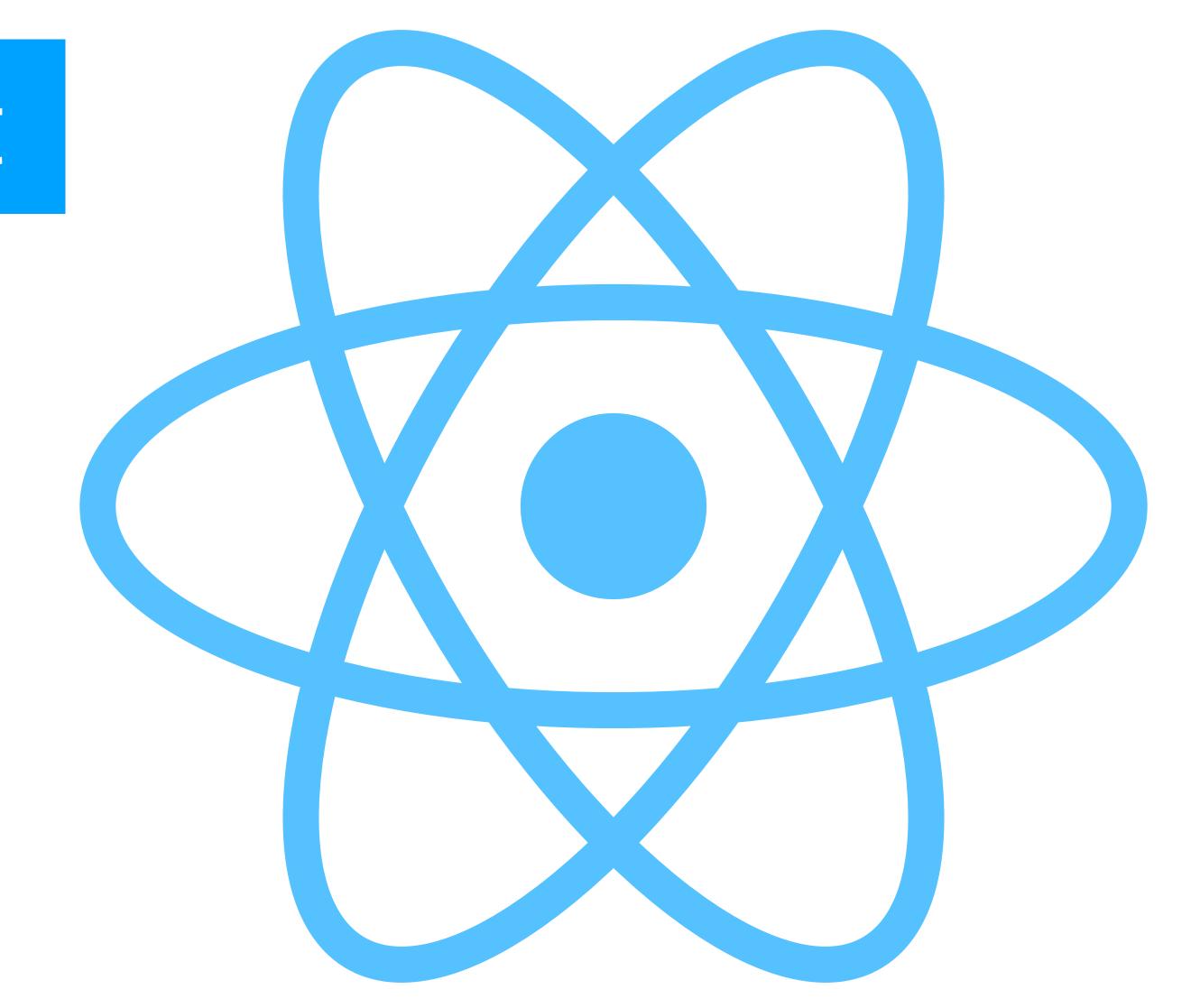


React

XML

JavaScript

CSS





Component Oriented Development

CSS in JS

JSX

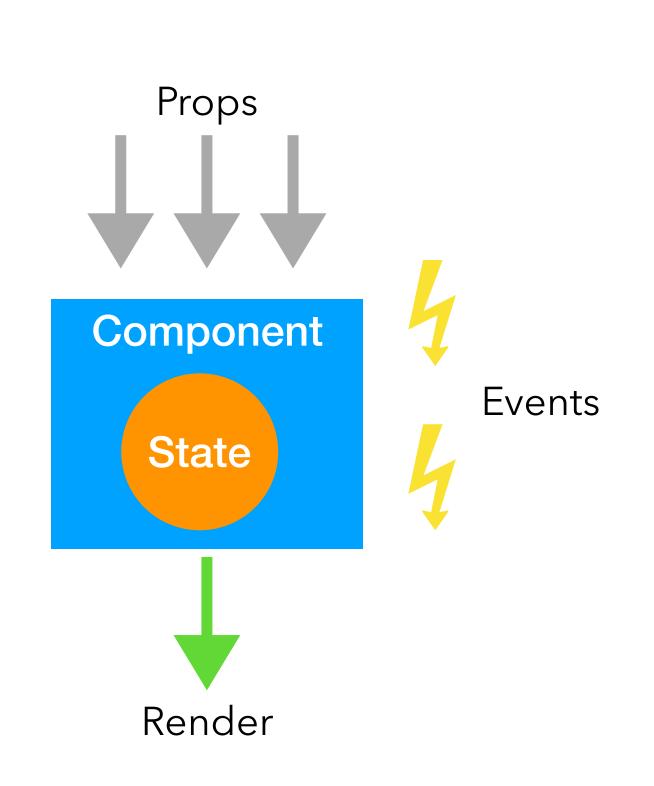
Virtual DOM

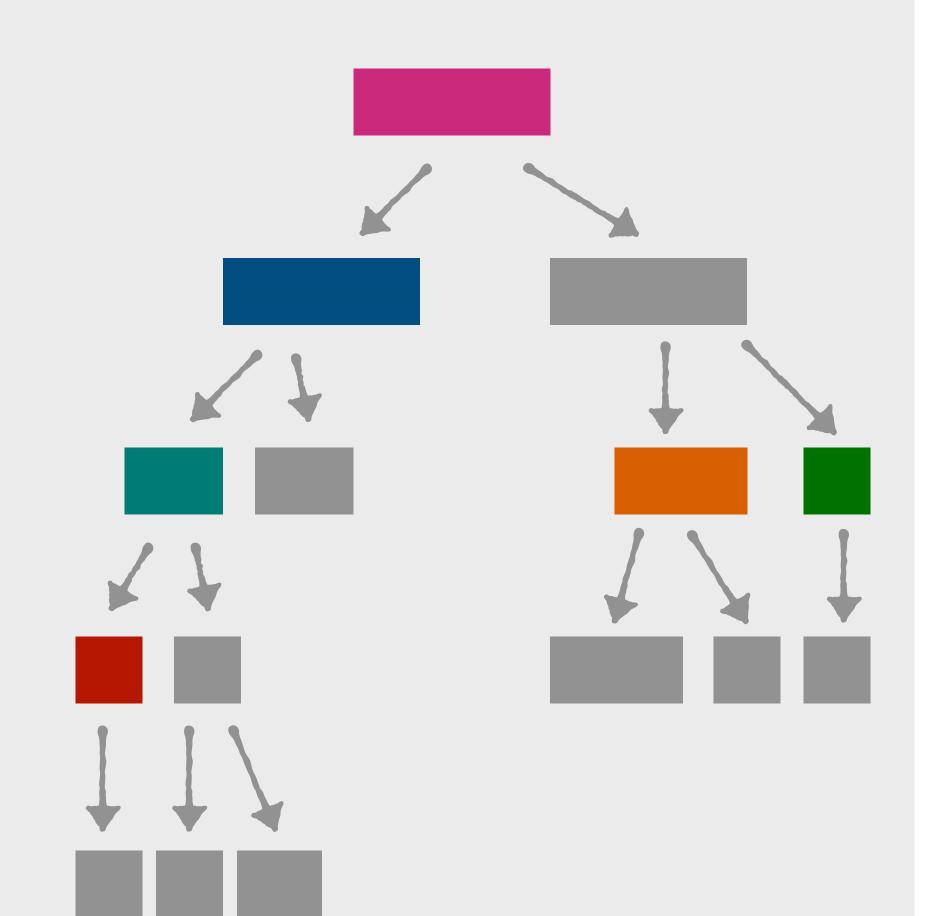
Unidirectional Data Flow

Render Targets



Component Oriented Development





Higher Order Component

Render Prop

Compound Component

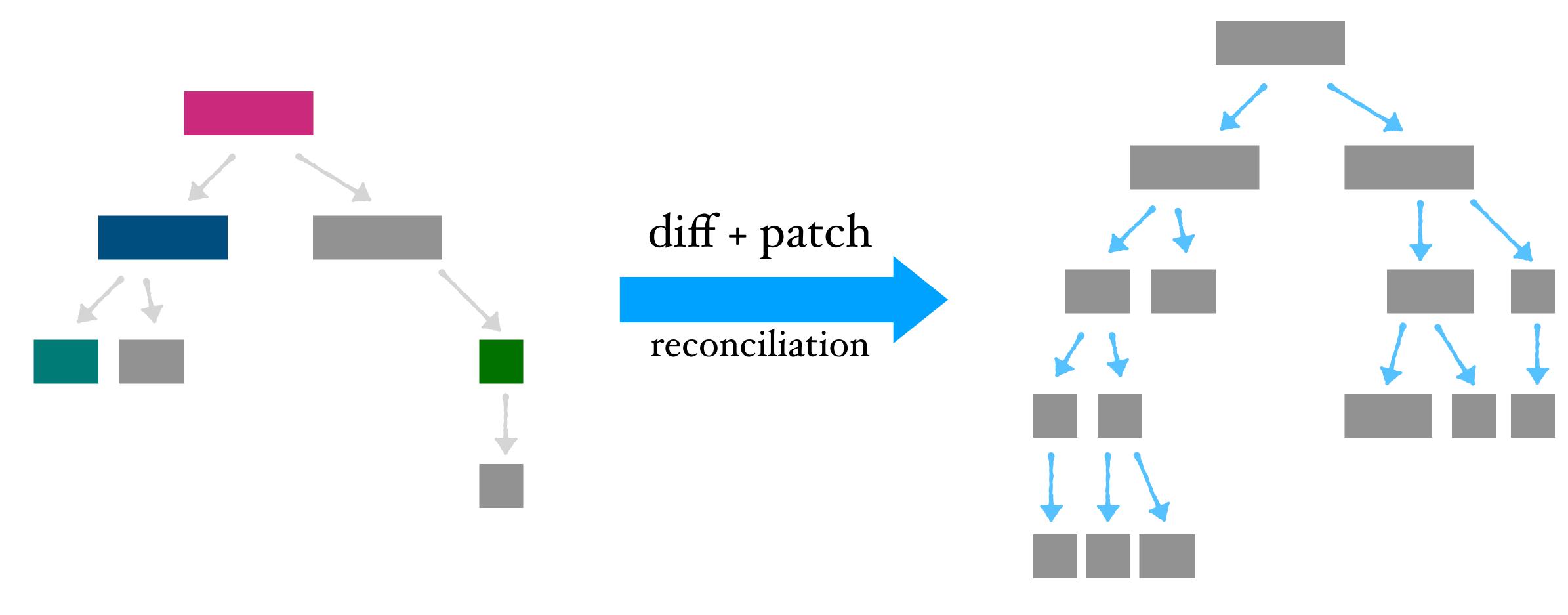
Controlled Component

Domain / Service Component

Container / Presentation

Provider / Consumer

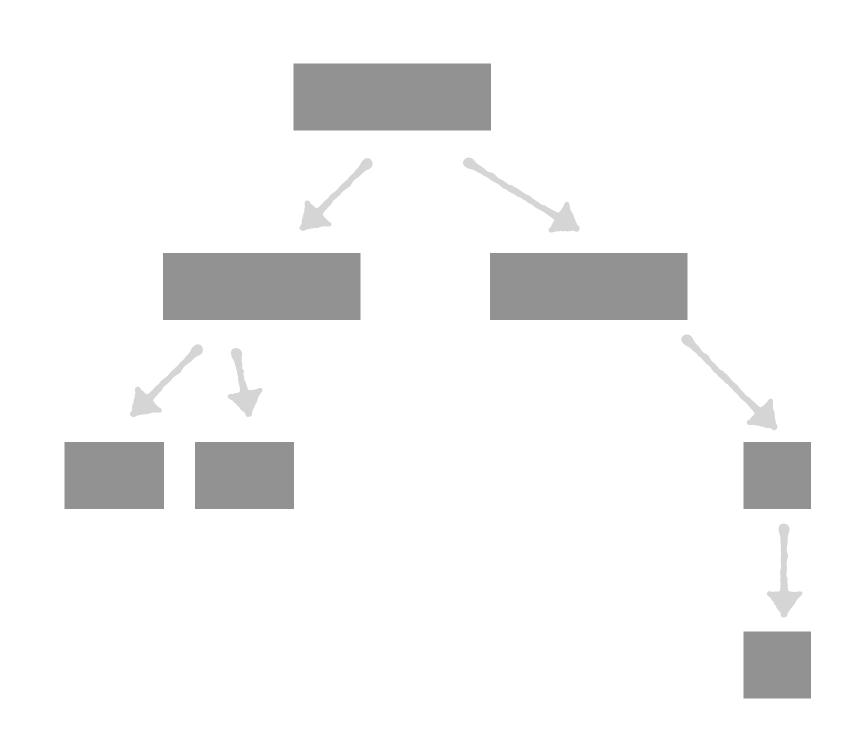




Component Tree

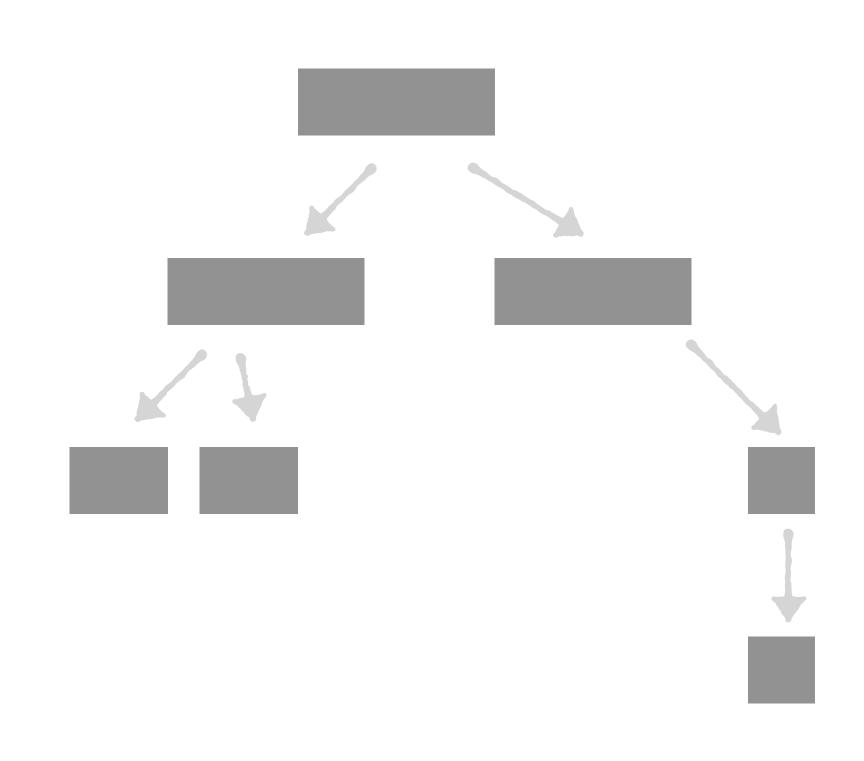
HTML DOM

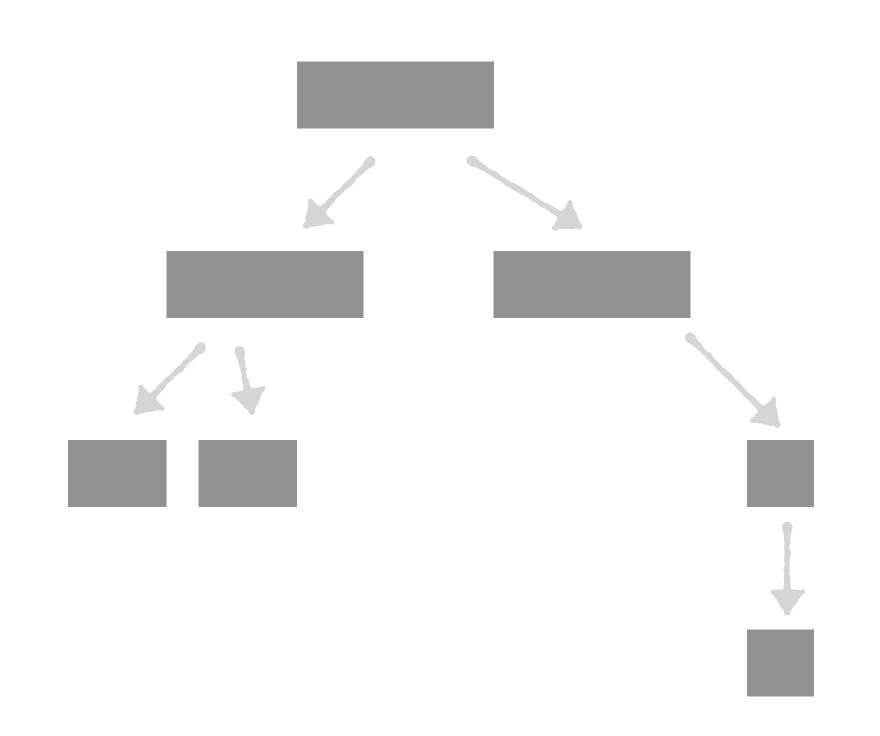




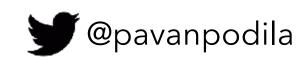
Render #1

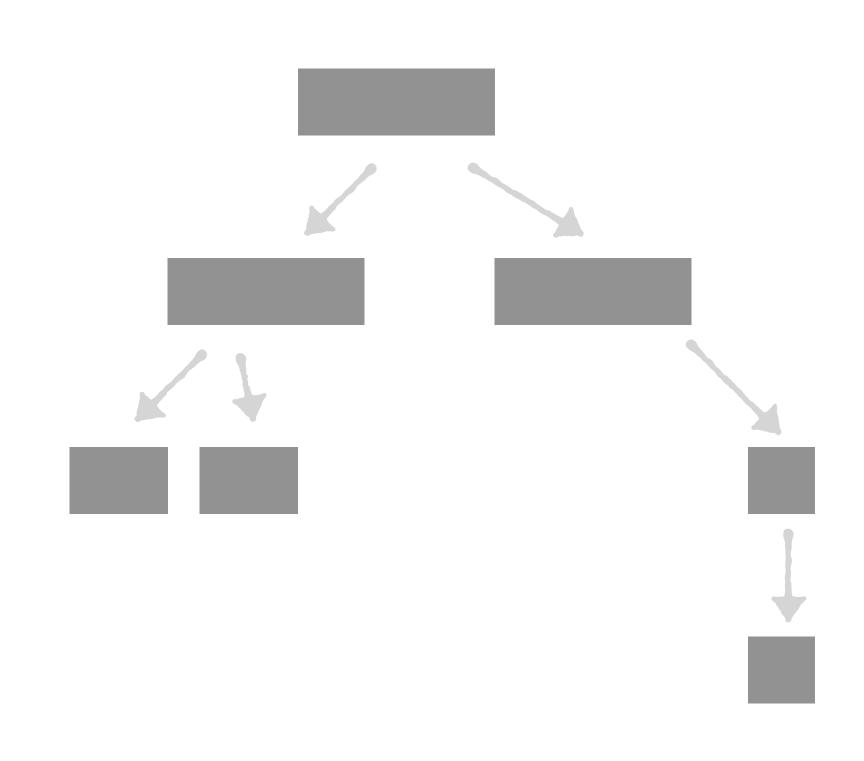


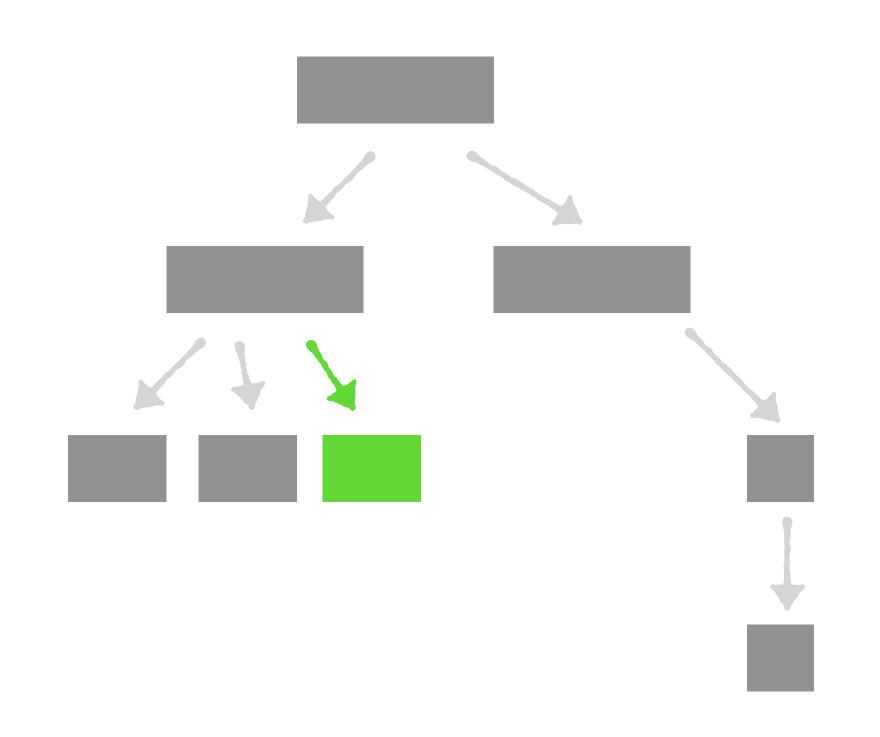




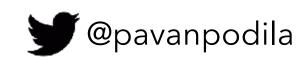
Render #1 Render #2

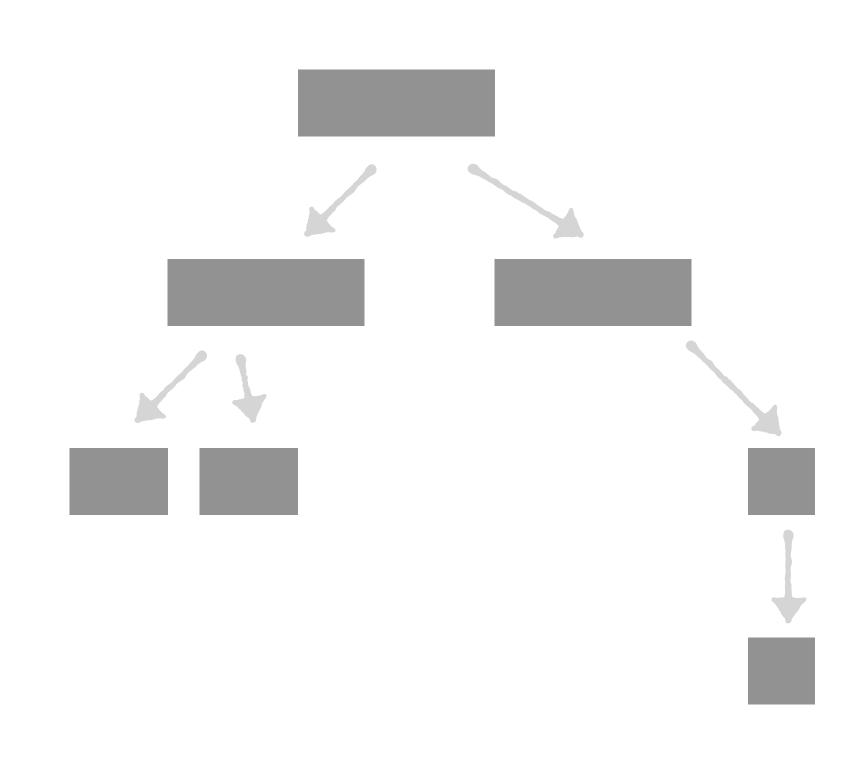


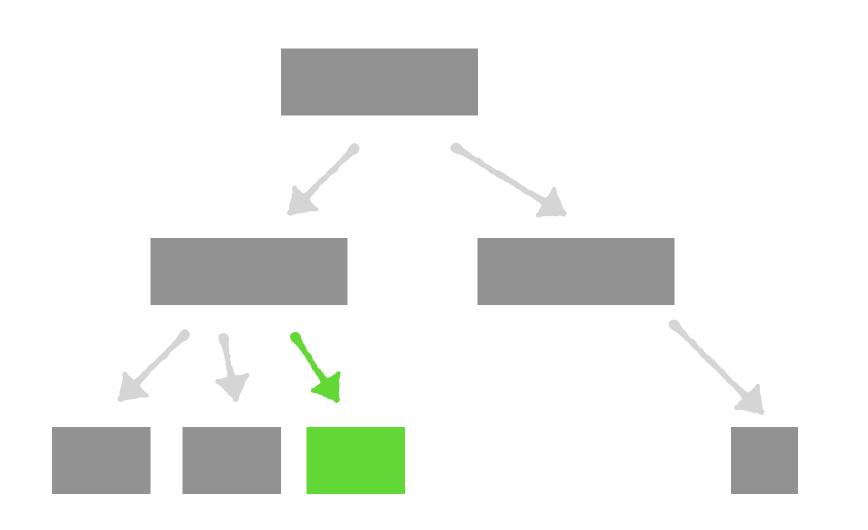




Render #1 Render #2



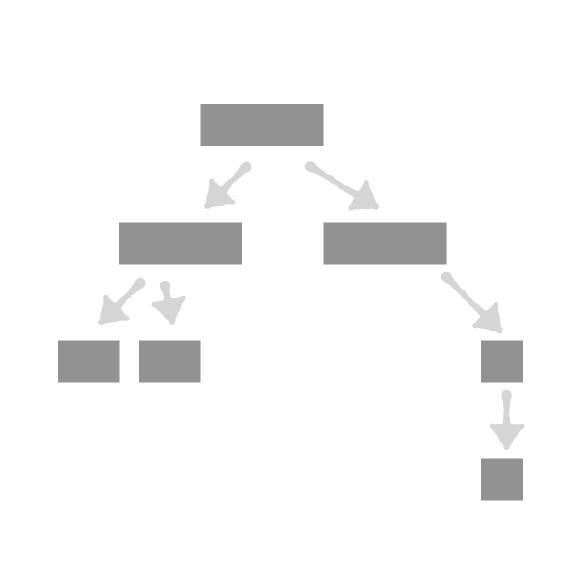


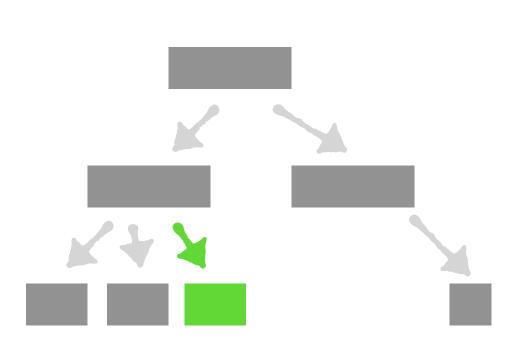


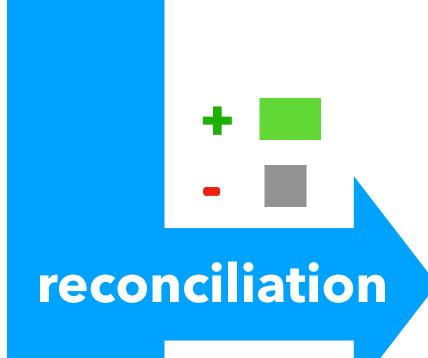
Render #1 Render #2

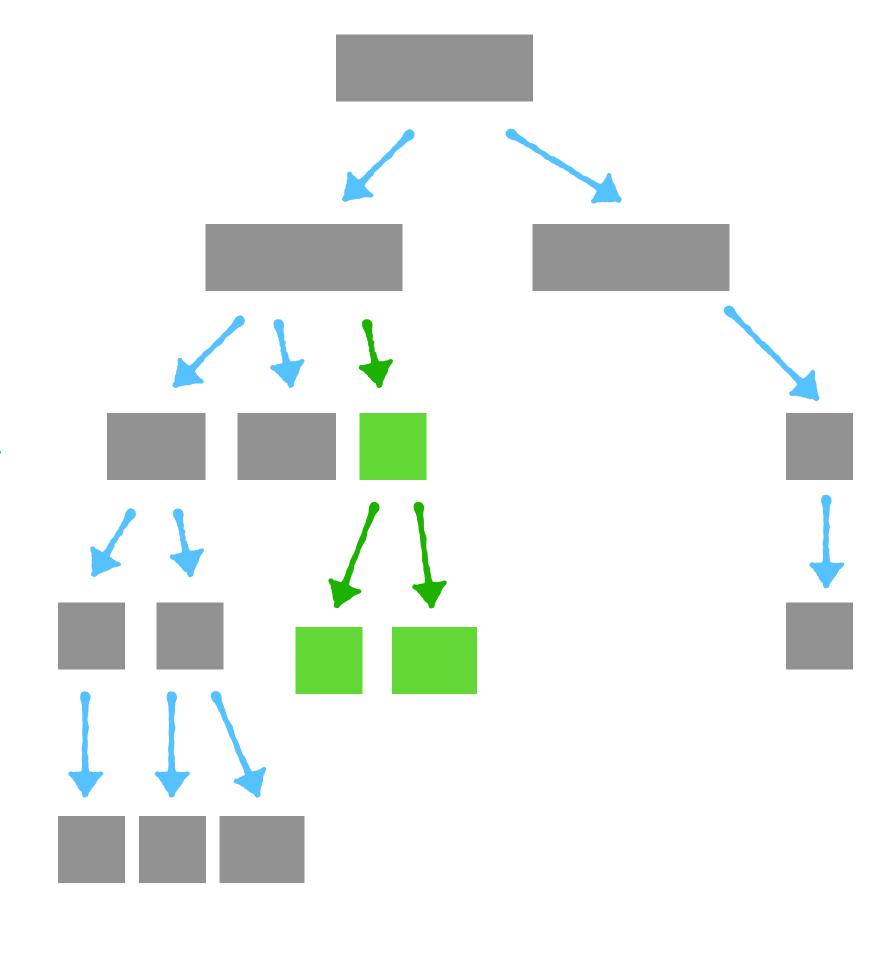












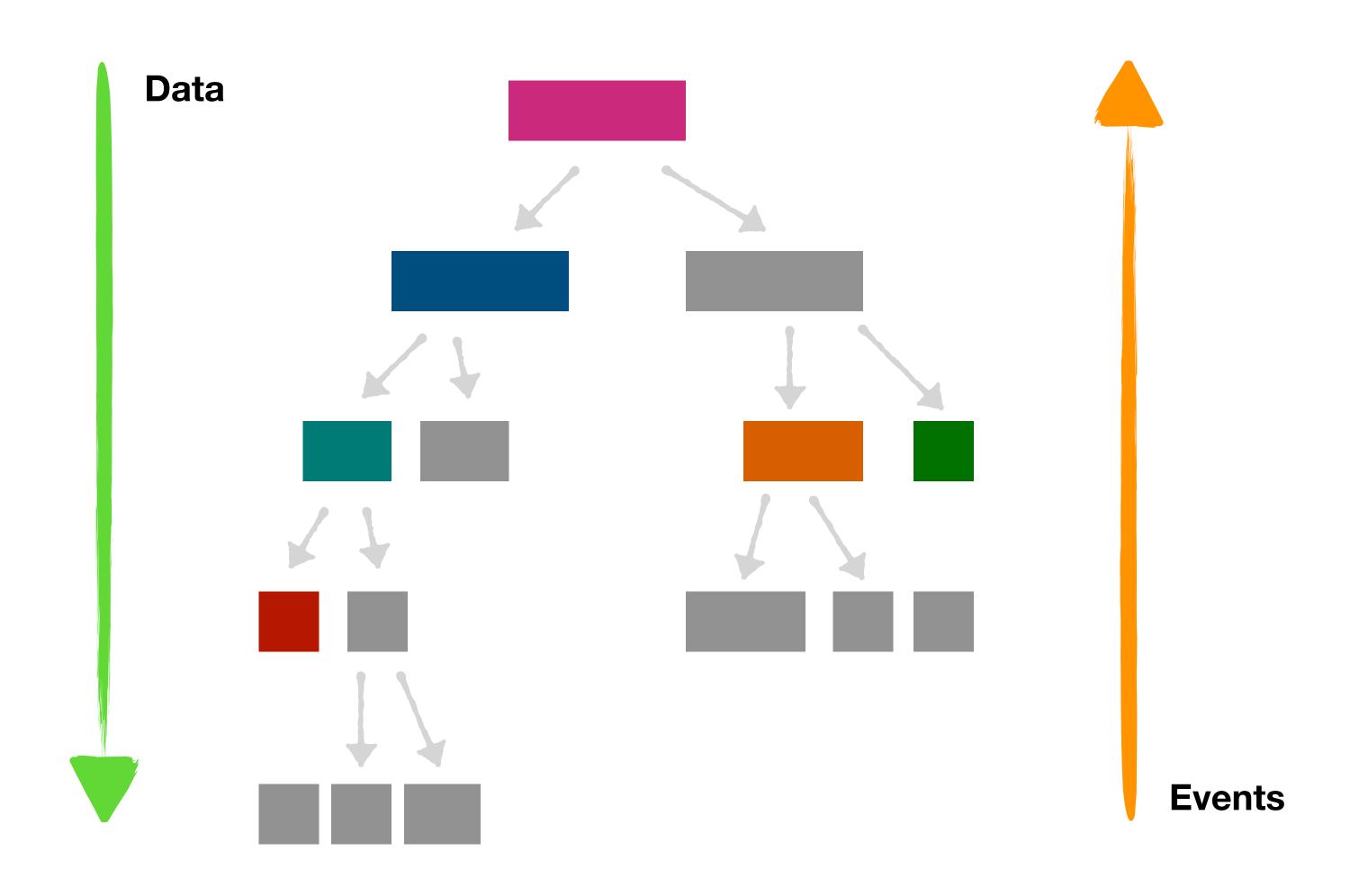
Render #1

Render #2

HTML DOM



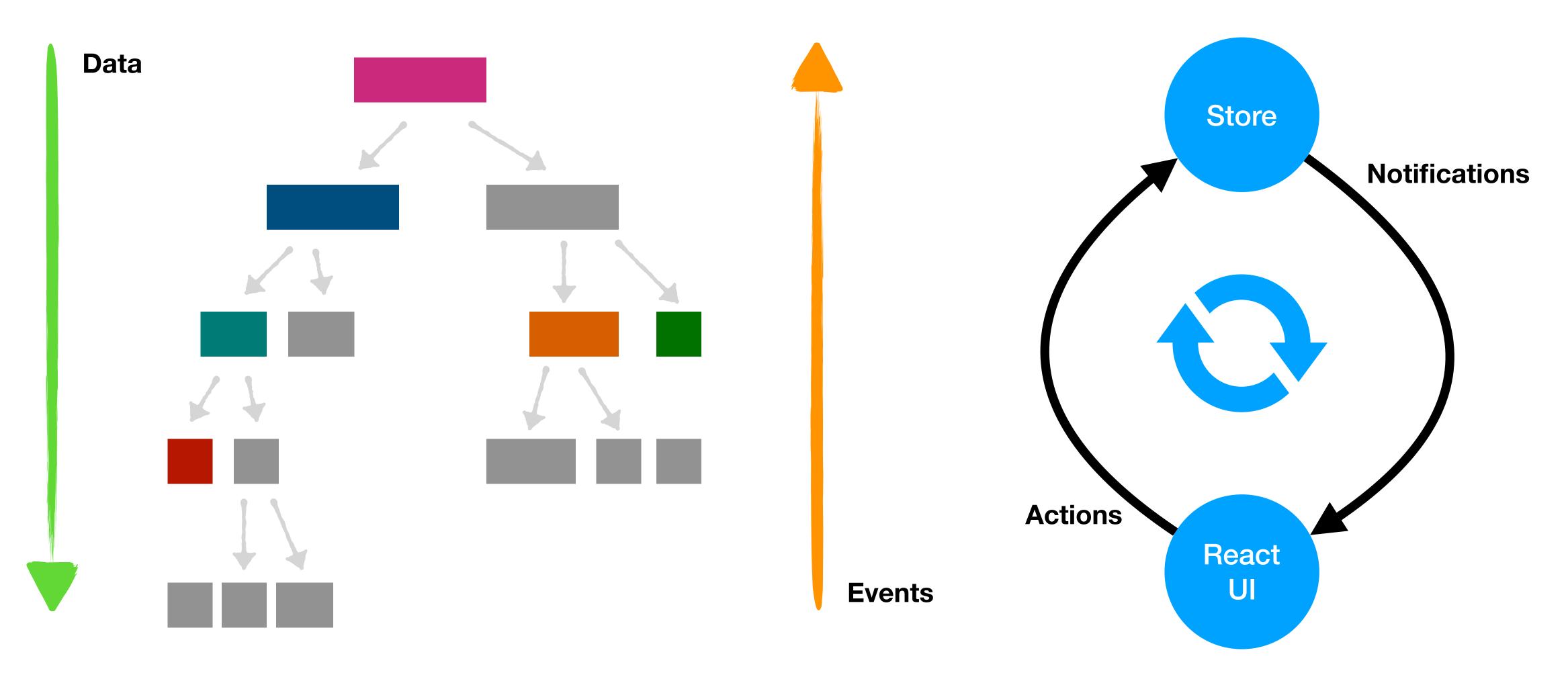
Unidirectional Data Flow



Data down, Events up



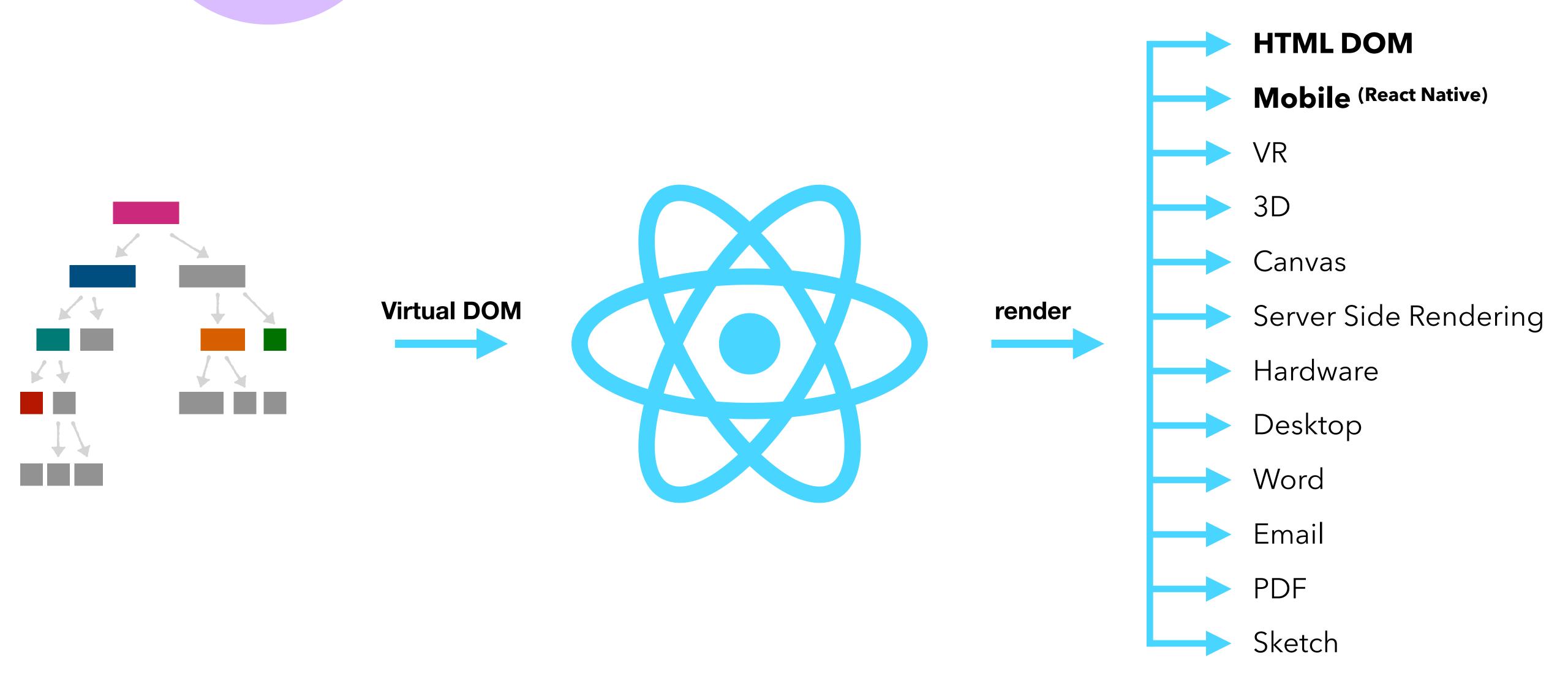
Unidirectional Data Flow

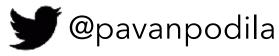


Data down, Events up



Render Targets





Component Oriented Development

CSS in JS

JSX

Virtual DOM

Unidirectional Data Flow

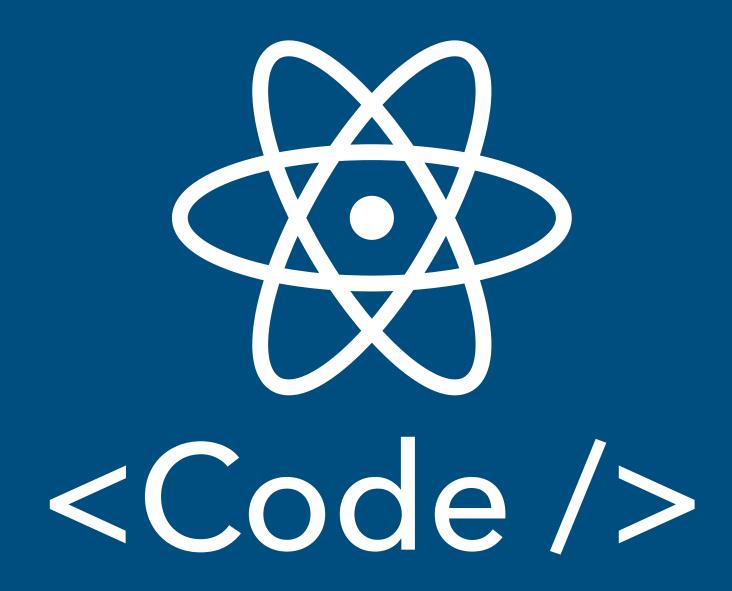
Render Targets



Ul Description Language

"Learn once, Write anywhere"





Tools

create-react-app

Jest Prettier

VS Code

WebStorm

React DevTools

Libraries

React Router

React Loadable

Material UI Ant Design



Practices

JavaScript, TypeScript CSS, Styled Components, Glamorous

Component Driven Development, SOLID, DDD, Functional Programming

Patterns: HOC, Render Props, Producer-Consumer, Container-Presentation, Controlled, Domain/Service Components

State Management

```
setState, React Context
```

```
Redux +
Middlewares(redux-observable, redux-saga)
MobX
```

(mobx, mobx-react, mobx-react-devtools)



```
<Code with="react"/>
```

Explore...

https://reactjs.org/

Awesome React Talks

https://theuidev.com





