

**REACT.JS**



# PRZEMYSŁAW WISZOWATY

# HELLO!



# SOFTware HUT

---

TENDERHUT GROUP

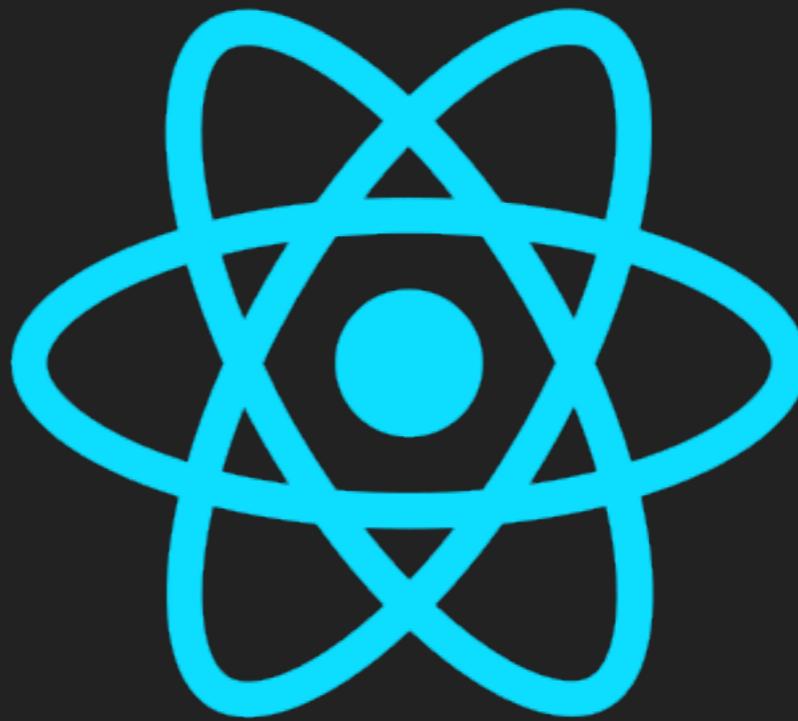
# meet.js biały stok



# REACT IS EVERYWHERE

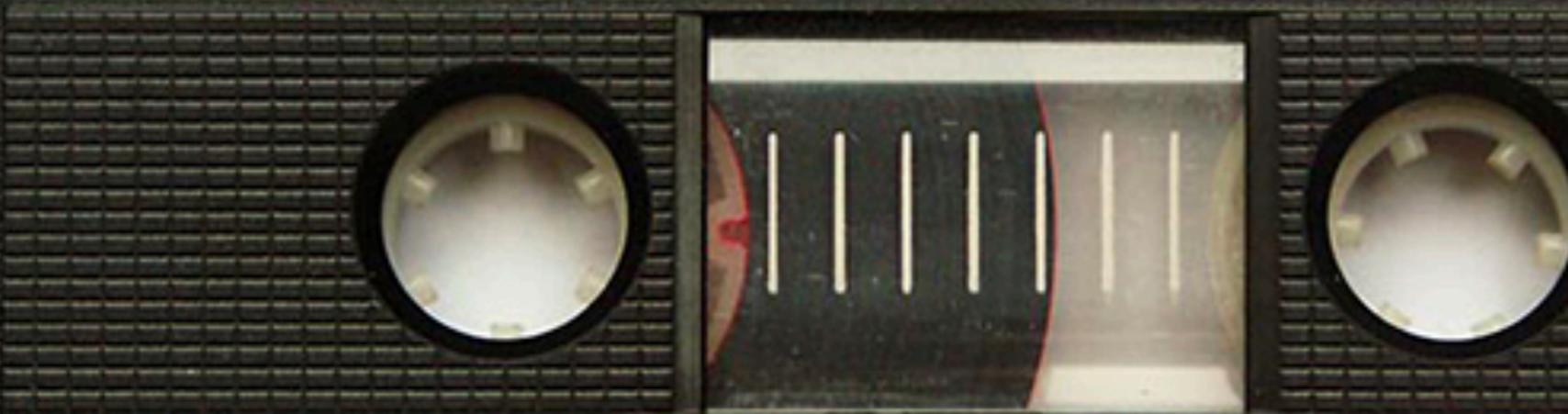
„Learn Once, Write Anywhere“

**FRONTEND**  
**BACKEND**  
**MOBILE**



A back to the 2000s

N.R. (OG)  
YES  NO



PHILIPS

UC-II 60

TYPE II · HIGH POSITION - 70µs EQ

# The Geocities-izer

Ge Look Like It Was Made By A 13 Year-Old In 1996

Type any URL in the box below and click Submit to see how it would look as a Geocities page.

Or Try one of these:



[The New York Times](#)



[YouTube](#)



[BoingBoing](#)

http://

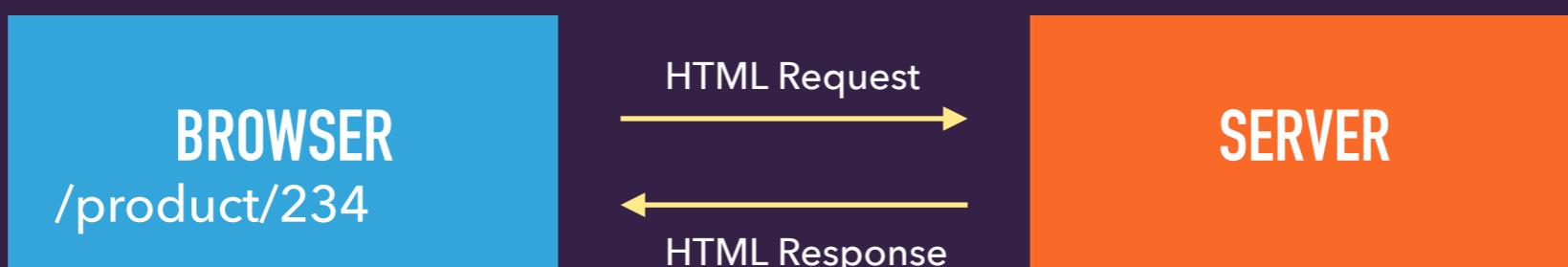
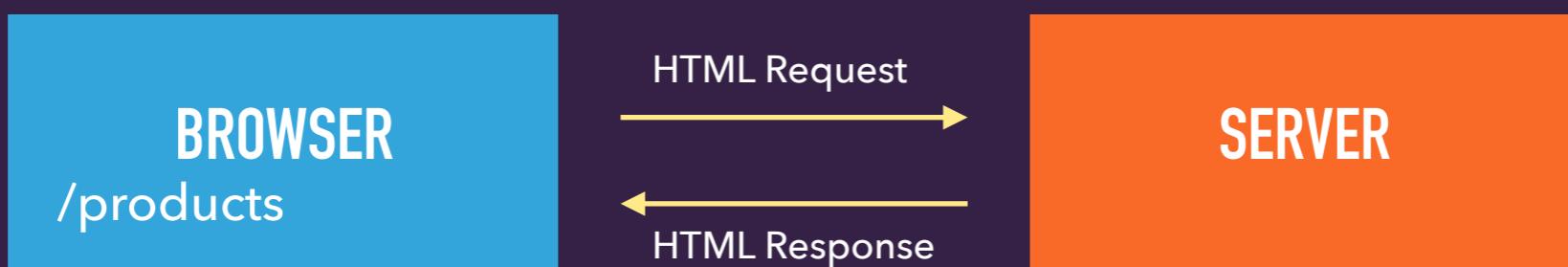
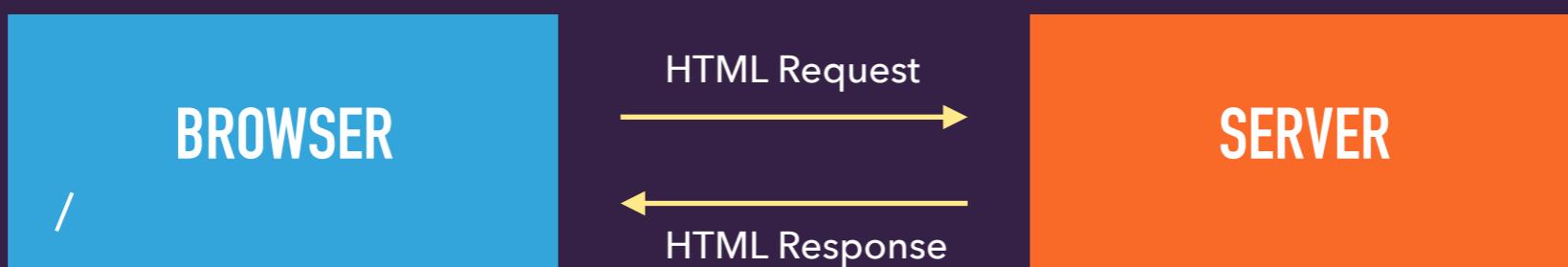
Some pages may work very slowly or not at all. Many webapps are just too advanced for Geocities.

Turn your sound up for the full effect.

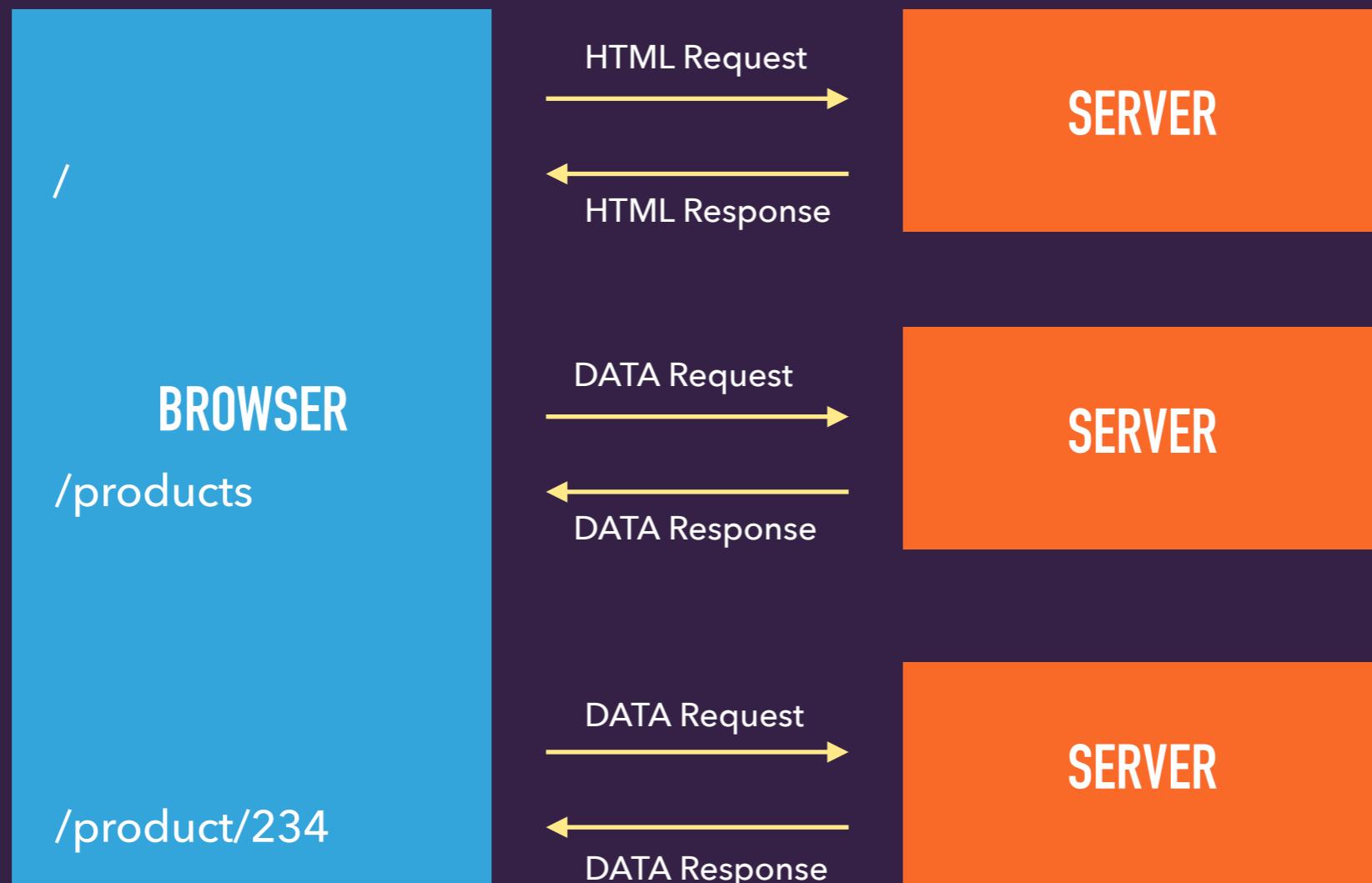
Created by [Mike Lacher](#)



# TRADITIONAL WEBSITE



# SINGLE PAGE APPLICATION





414 x 736



Elements

Console

Sources

Network

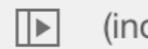
Performance

Memory

Application

Security

Audits

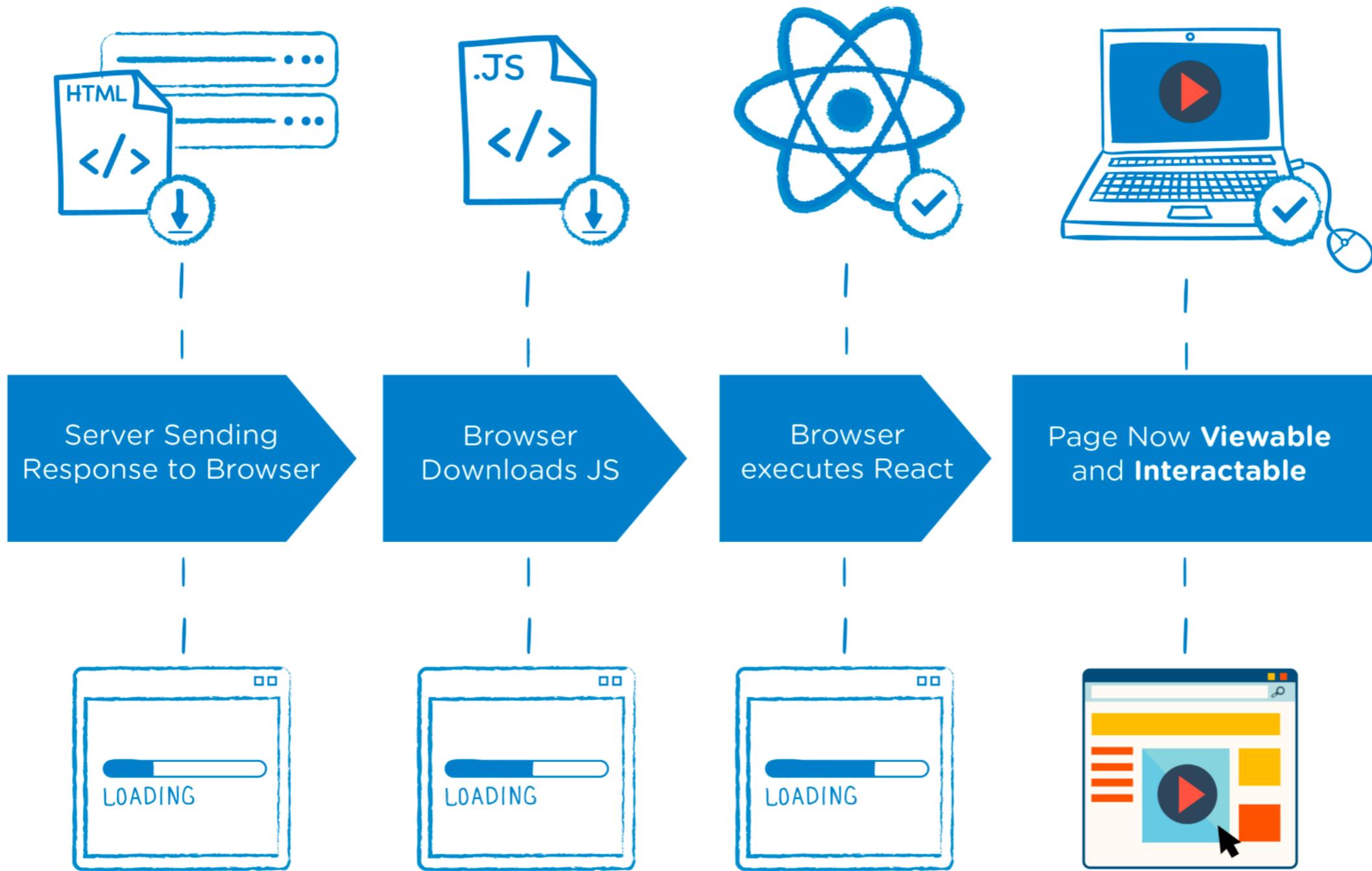


(index) :formatted x

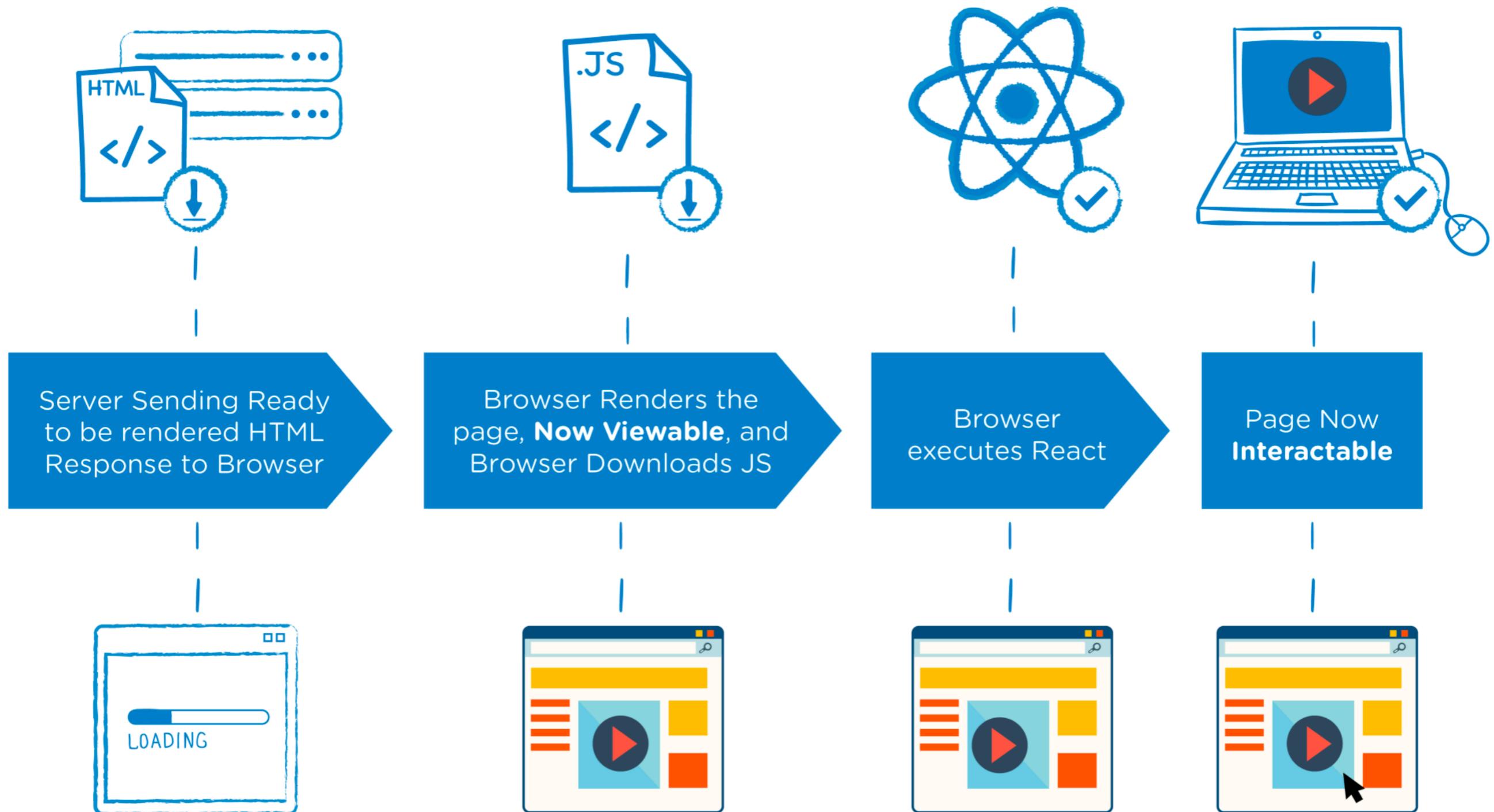
```
1 <!DOCTYPE html>
2 <html lang="en" prefix="og: http://ogp.me/ns#">
3   <head>
4     <meta charset="utf-8">
5     <meta name="viewport" content="width=device-width,initial-scale=1,shrink-to-fit=no">
6     <link rel="apple-touch-icon" sizes="180x180" href="/icons/apple-touch-icon.png?v=694AzX47gQ">
7     <link rel="icon" type="image/png" sizes="32x32" href="/icons/favicon-32x32.png?v=694AzX47gQ">
8     <link rel="icon" type="image/png" sizes="16x16" href="/icons/favicon-16x16.png?v=694AzX47gQ">
9     <link rel="mask-icon" href="/icons/safari-pinned-tab.svg?v=694AzX47gQ" color="#5bbad5">
10    <link rel="shortcut icon" href="/icons/favicon.ico?v=694AzX47gQ">
11    <meta name="msapplication-TileColor" content="#2d89ef">
12    <meta name="msapplication-config" content="/icons/browserconfig.xml?v=694AzX47gQ">
13    <meta name="theme-color" content="#ffffff">
14    <meta name="google-site-verification" content="NCJvpBpTbp9pUJdDk7t6dhIis0j4kZJEphgntRU-TbM"/>
15    <link rel="manifest" href="/manifest.json">
16    <title>TenderHut</title>
17    <link href="/static/css/main.5ca042e5.css" rel="stylesheet">
18  </head>
19  <body>
20    <noscript>You need to enable JavaScript to run this app.</noscript>
21    <div id="app-root"></div>
22    <div id="modal-root"></div>
23    <script type="text/javascript" src="/static/js/main.dc65024f.js"></script>
24  </body>
25</html>
```



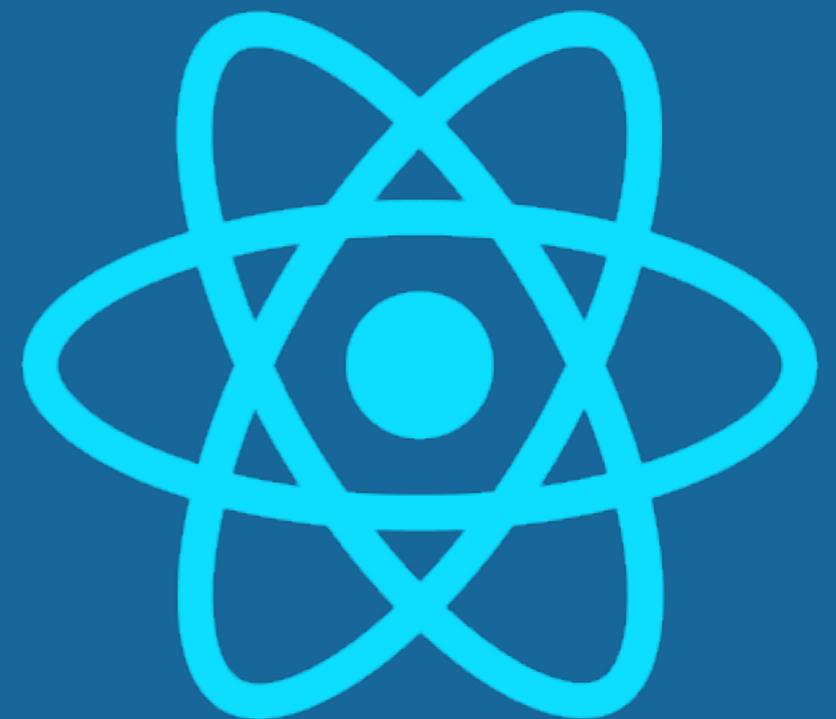
# CSR



# SSR



# WHAT IS REACT?

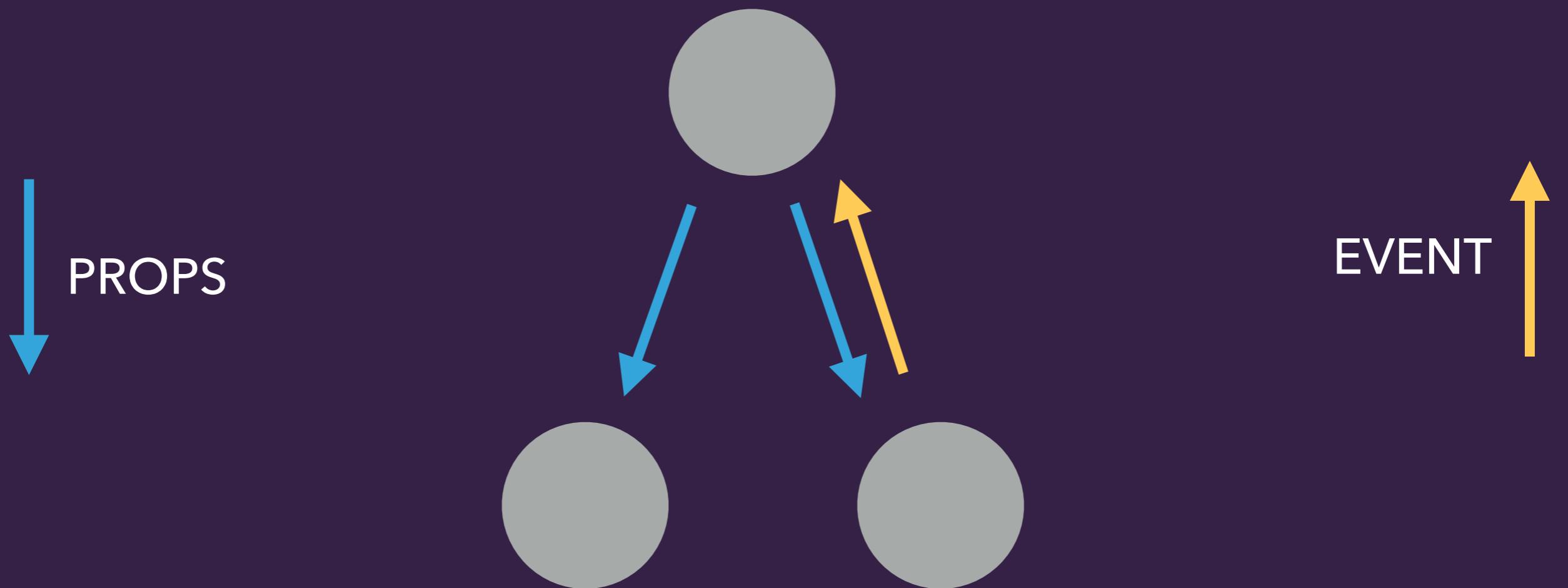


**LIBRARY  
NOT  
~~FRAMEWORK~~**

# LOW LEARNING CURVE

# ONE WAY DATA FLOW

# ONE WAY DATA FLOW



**NO CONTROLLERS**  
**NO MODELS**  
**NO DIRECTIVES**  
**NO GLOBAL EVENT LISTENER**

**JUST  
COMPONENT**

**COMPONENT**

**ISOLATED**

**REUSABLE**

**TESTABLE**

# **COMPONENT TYPES**

# CLASS

```
class Welcome extends React.Component {  
  render() {  
    return <h1>Hello {this.props.name}</h1>  
  }  
}
```

# FUNCTIONAL

```
function Welcome(props) {  
  return <h1>Hello, {props.name}</h1>;  
}
```

# FUNCTIONAL

```
const Welcome = (props) => {  
  return <h1>Hello, {props.name}</h1>;  
};
```

# FUNCTIONAL

```
const Welcome = (props) => {
  const {name} = props;
  return <h1>Hello, {name}</h1>;
}
```

# FUNCTIONAL

```
const Welcome = ({name}) => {  
  return <h1>Hello, {name}</h1>;  
};
```

<Welcome />

**EVERYTHING  
IS A COMPONENT**

CardComponent

CardHeaderComponent

**COMPONENT...**

**COMPONENT EVERYWHERE**

[makeameme.org](http://makeameme.org)

CardBodyComponent

UserPhotoComponent

```
1 import React from 'react';
2
3 const FacebookComponent = () => (
4   <CardComponent>
5     <CardHeaderComponent>
6       <SelectorComponent />
7       <SelectorComponent />
8       <SelectorComponent />
9     </CardHeaderComponent>
10
11    <CardBodyComponent>
12      <UserPhotoComponent />
13    </CardBodyComponent>
14
15    <CardFooterComponent />
16  </CardComponent>
17);
18
19 export default FacebookComponent;
20
```

**JSX**

```
const Welcome = () => {  
  return <h1>Hello, World</h1>;  
};
```

JSX

```
const Welcome = function Welcome() {  
  return React.createElement(  
    "h1",  
    null,  
    "Hello, World"  
);  
};
```

JS

**REACT DOESN'T  
REQUIRE USING JSX**

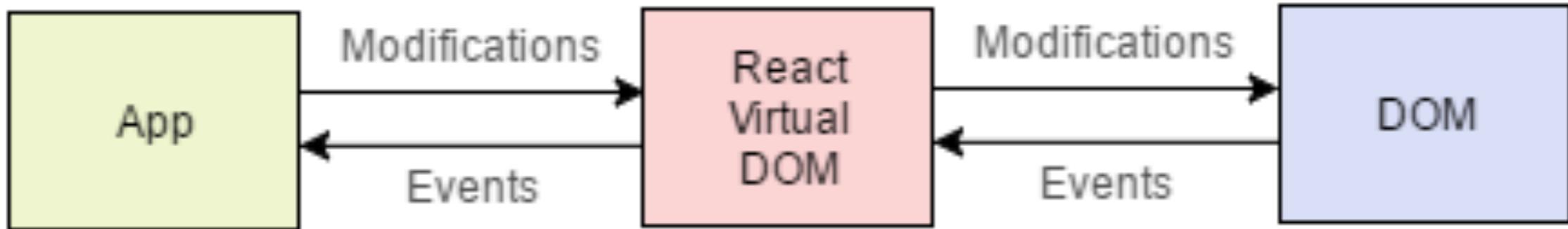
**VIRTUAL  
DOM**

**IT'S FAST**  
**IT'S PURE**  
**IT WORKS**

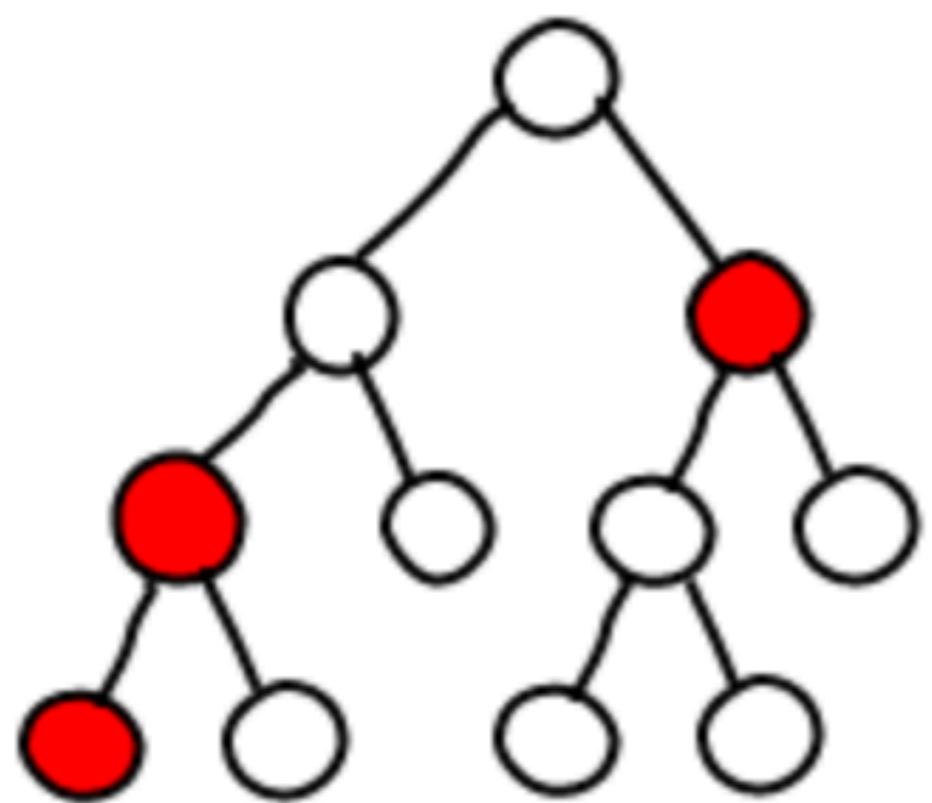
## Traditional Web Application



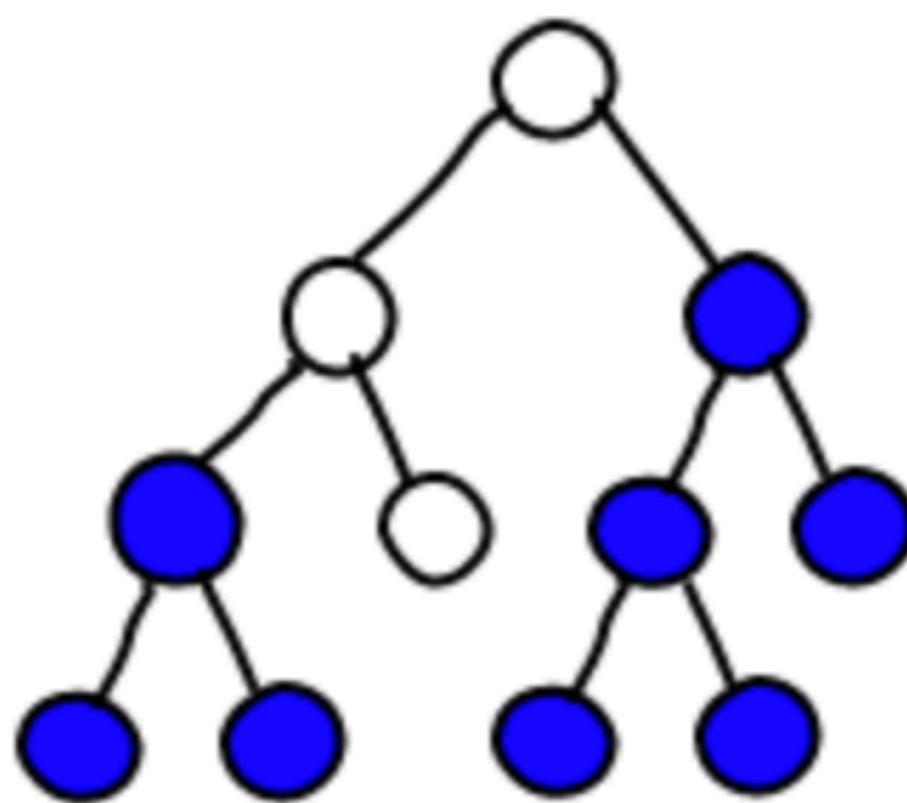
## React.js



Dirty



Re-rendered



# Hello, world!

It is 12:26:46 PM.

```
Console  Sources  Network  Timeline
▼<div id="root">
  ▼<div data-reactroot>
    <h1>Hello, world!</h1>
    ▼<h2>
      <!-- react-text: 4 -->
      "It is "
      <!-- /react-text -->
      <!-- react-text: 5 -->
      "12:26:46 PM"
      <!-- /react-text -->
      <!-- react-text: 6 -->
      "."
      <!-- /react-text -->
    </h2>
  </div>
</div>
```

# PROPS

**PROPS =  
PRIMITIVE VALUES,  
REACT ELEMENTS  
FUNCTIONS**

```
<Welcome />
```

```
props: {}
```

```
<Welcome name="Jack" />
```

```
props: {  
    name: "Jack"  
}
```

```
<Welcome>Jack</Welcome>
```

```
props: {  
    children: "Jack"  
}
```

```
const Welcome = (props) => {  
    return <h1>Hello, {props.name}</h1>;  
};
```



# PROPS DEFAULT IS TRUE

```
<MyComponent dark />
```

```
<MyComponent dark={true} />
```

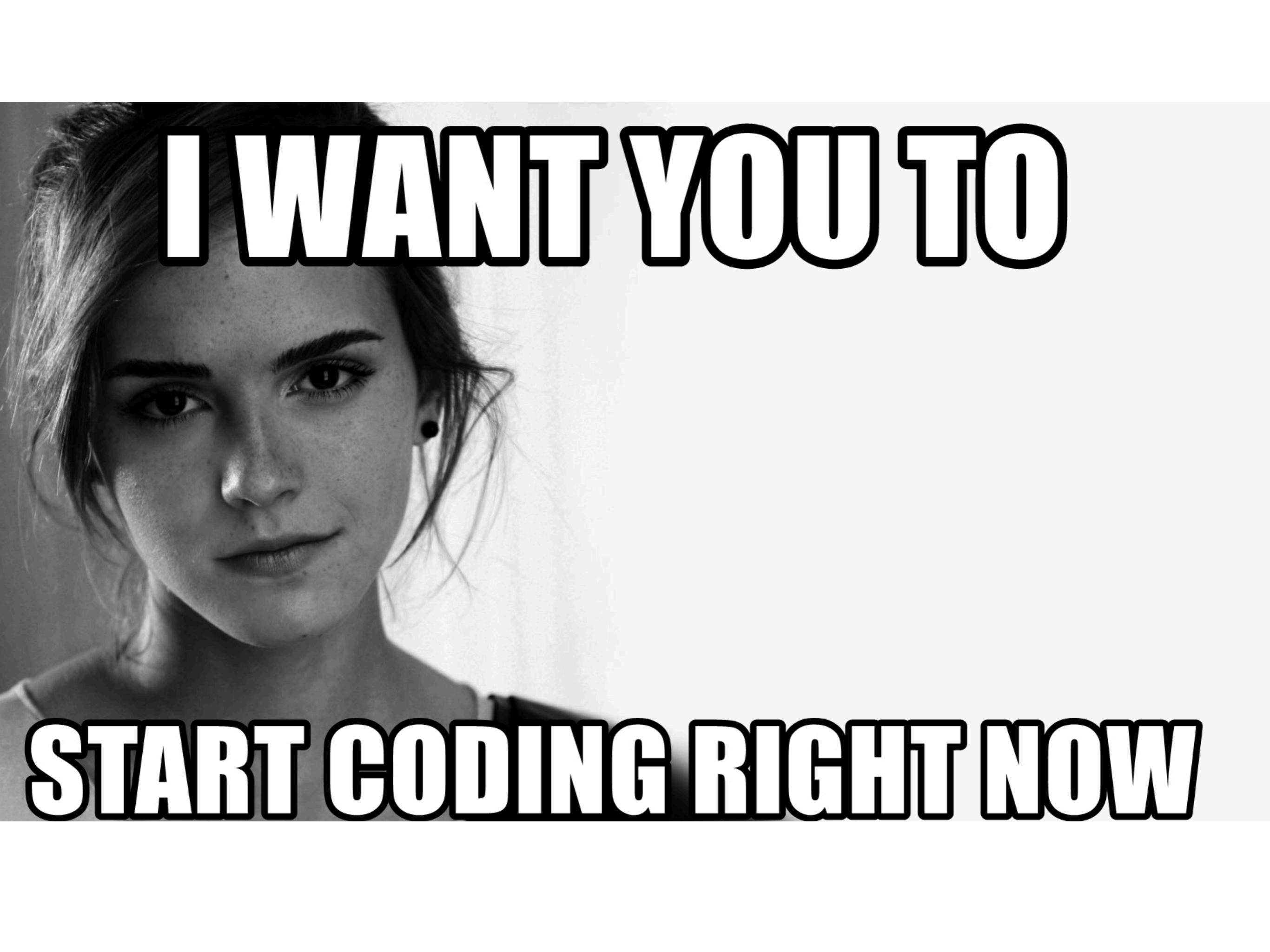
# PROPS SPREAD ATTRIBUTES

```
const postData = {  
  title: "Post Title",  
  image: "https://pic.com/1.jpg",  
  text: "Lorem ipsum dolor sit."  
};
```

```
<Post {...postData} />
```



```
<Post  
  title="Post Title"  
  image="https://pic.com/1.jpg"  
  text="Lorem ipsum dolor sit."  
/>
```

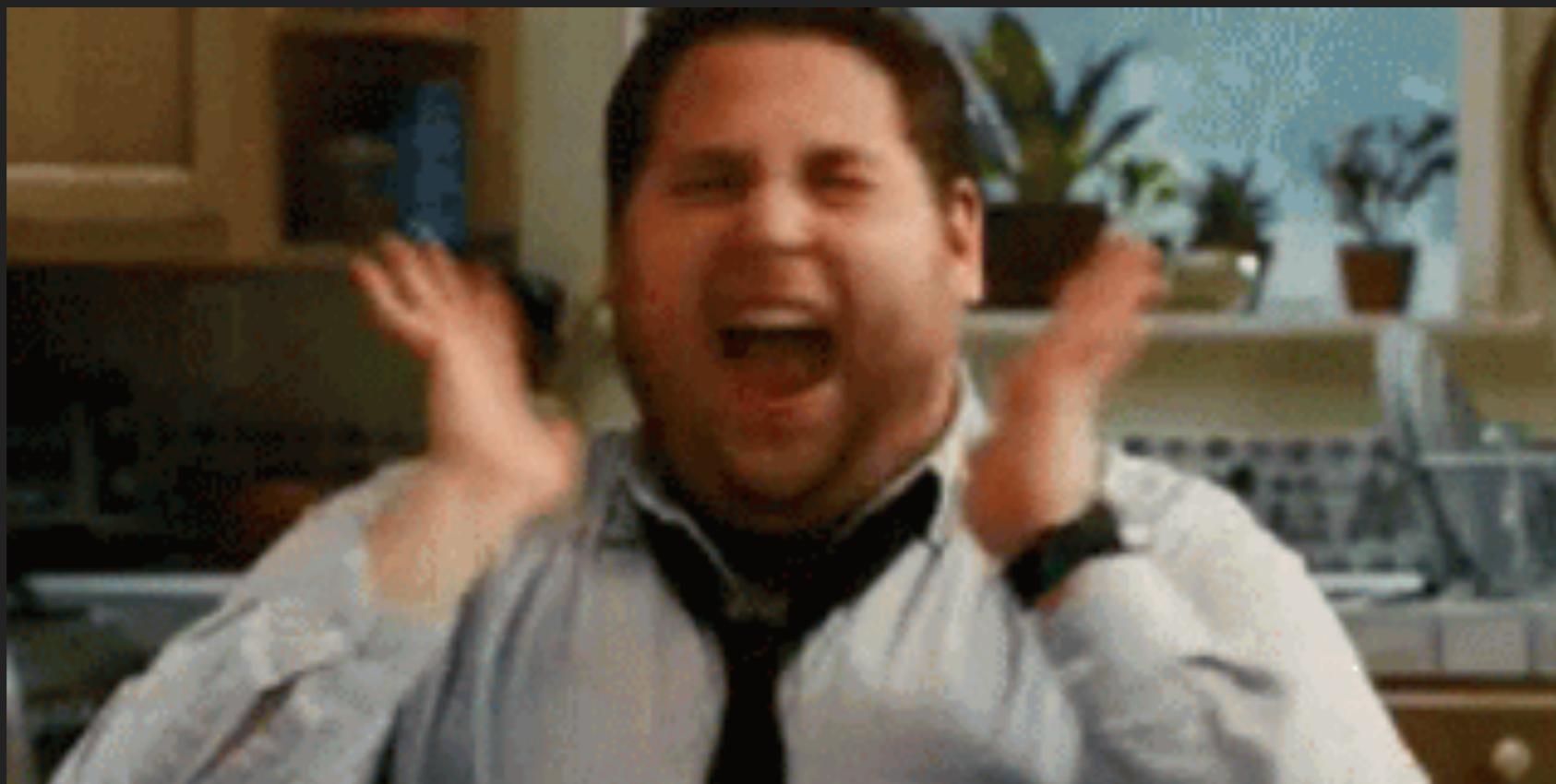


**I WANT YOU TO**

**START CODING RIGHT NOW**

**CREATE  
REACTAPP**

**npx create-react-app myapp**



# DEMO

# REACT DEV TOOLS

# DEMO

# THANKS