

W6D2

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What we will learn

- 1- What are JS frameworks and libraries
- 2- What React is
- 3- What are components in React are and how they simplify the creation of User interfaces
- 4- Create and render React components



Intro

1. Apps with HTML / CSS / Javascript (vanilla)
2. MPA: Multi page applications
 - 1- **PHP, MySQL, HTML, CSS**
Wordpress, Laravel, Drupal, etc.
 - 2- **Express, Node, MongoDB, HTML, CSS**
 - 3- Other MPA Systems
Shopify, Hubspot, Drupal, Ruby on Rails.



Multi page applications (MPA)

Wordpress, Laravel, Drupal, etc.

(PHP, MySQL, HTML, CSS)

Other MPA Systems:

Shopify, Hubspot, Wikipedia, Drupal, Ruby on Rails*



Single page applications (SPA)

React: Developed by Facebook

Vue.js: Developed by Evan You

Angular: Developed by Google

Svelte: Developed by Richard Harris while working at The Guardian



React

Features:

React is a **Front-end Javascript Library** that allow us to change dynamic data without having to load the page on the browser.

React can be written on JS or JSX files.

JSX is a syntax extension for JavaScript.



React

React is Component-based development

Like in HTML we have:

`<p>` `<header>` or ``

In React we can create components like:

`<Sidebar />` `<Slider />` etc.



Components

Components are not exclusive to REACT development:

<https://dev.to/respect17/web-components-in-2025-building-better-websites-for-everyone-4ac9>

<https://www.webcomponents.org/>



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<https://github.com/web-padawan/awesome-web-components>

<https://www.webcomponents.org/>



React

Separation of concerns

React allow us to work on different part of the application by working on different files.

Non-opinionated

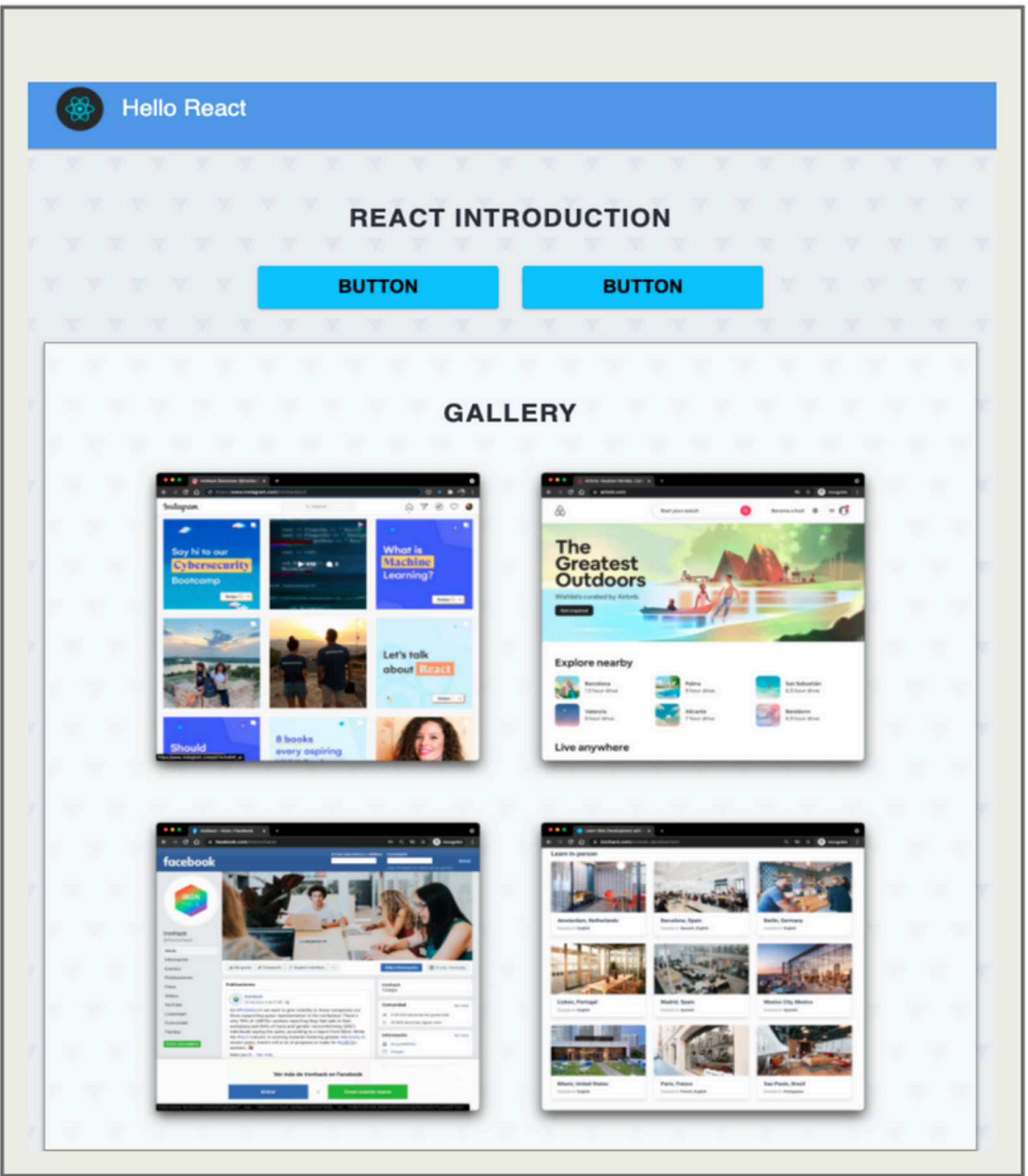
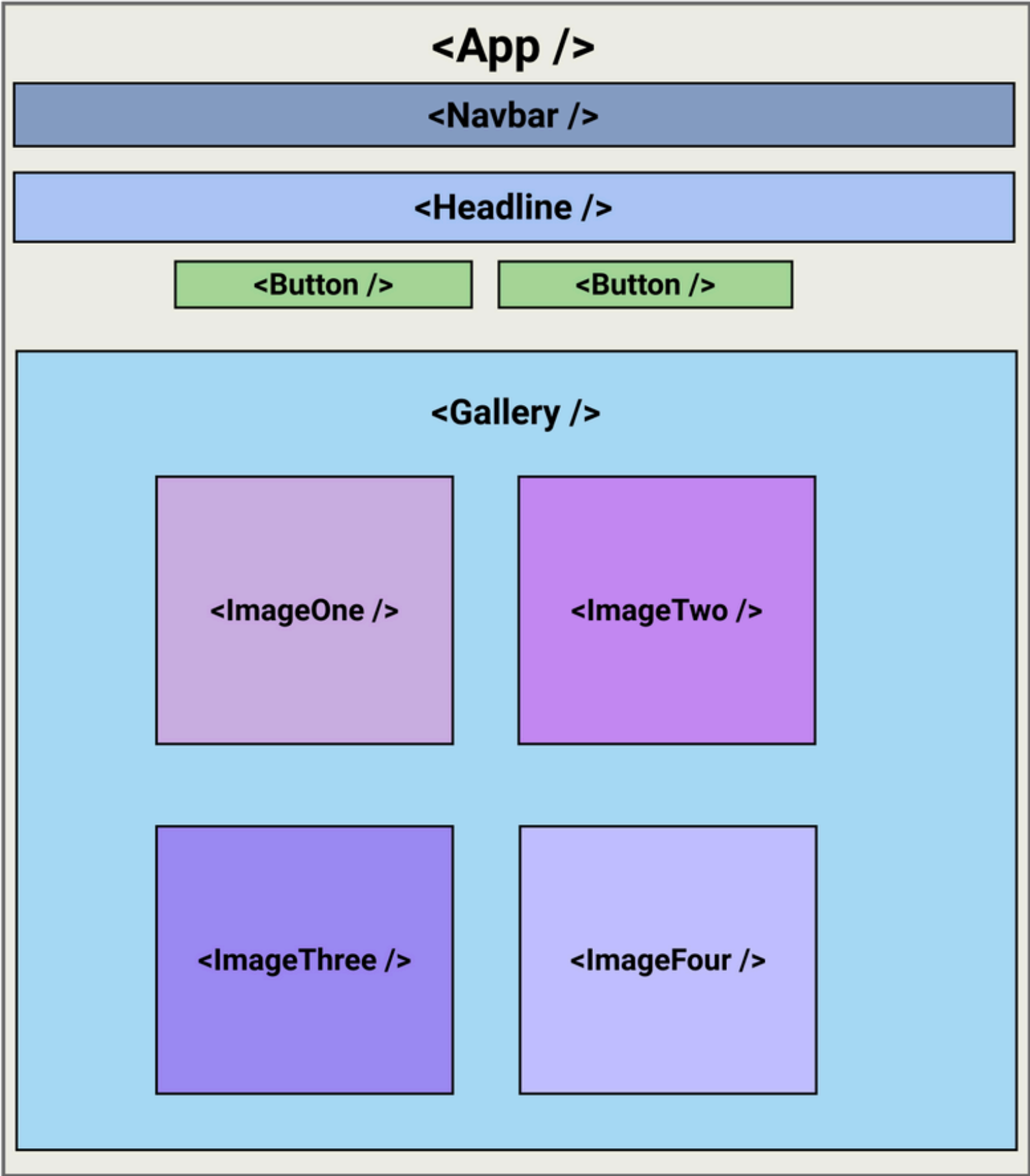
Flexible, minimal defaults, customisable.

Read More:

<https://dev.to/muhammadmedhat/opinionated-vs-non-opinionated-frameworks-understanding-the-difference-2379>



React



React

```
1 // App.jsx
2
3 function App() {
4   return (
5     <div className="App">
6       <Navbar />
7       <Headline />
8
9       <Button />
10      <Button />
11
12      <MyButton />
13
14      <Gallery />
15    </div>
16  );
17 }
```

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✦ Explain this code

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HACK

React

```
1  // src/components/MyButton.js
2
3  function MyButton() {
4    return (
5      <a href="https://ironhack.com">
6        <button className="btn yellow">REACT DOCS</button>
7      </a>
8    );
9  }
10
11  // To make the component available, we have to export it
12  export default MyButton;
```

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✦ Explain this code

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Let's create our first React application

