

coach 📀



React really shines when your data changes over time.

and therefore less surface area for XSS vulnerabilities.

In a traditional JavaScript application, you need to look at what data changed and imperatively make changes to the DOM to keep it up-to-date. Even AngularJS, which provides a declarative interface via directives and data binding requires a linking function to manually update DOM nodes C.

We've also created JSX [2], an optional syntax extension, in case you prefer the readability of HTML to raw JavaScript.

React takes a different approach

When your component is first initialized, the <u>render</u> method is called, generating a lightweight representation of your view. From that representation, a string of markup is produced and injected into the document. When your data changes, the <u>render</u> method is called again. In order to perform updates as efficiently as possible, we diff the return value from the previous call to <u>render</u> with the new one and generate a minimal set of changes to be applied to the DOM.

The data returned from **render** is neither a string nor a DOM node — it's a lightweight description of what the DOM should look like.

We call this process reconciliation. Check out this process this this

Because this re-render is so fast (around 1ms for TodoMVC), the developer doesn't need to explicitly specify data bindings. We've found this approach makes it easier to build apps.

## HTML is just the beginning.

Mark as completed

 $Because \ React \ has \ its \ own \ lightweight \ representation \ of \ the \ document, \ we \ can \ do \ some \ pretty \ cool \ things \ with \ it:$ 

- Facebook has dynamic charts that render to <anvas> instead of HTML.
- Instagram is a "single page" web app built entirely with React and Backbone. Router. Designers regularly
  contribute React code with JSX.
- We've built internal prototypes that run React apps in a web worker and use React to drive native iOS views via an Objective-C bridge.
- You can run React on the server for SEO, performance, code sharing and overall flexibility.
- Events behave in a consistent, standards-compliant way in all browsers (including IE8) and automatically use
  event delegation.

Head on over to  $\underline{\text{https://reactjs.org}} \ \ \underline{C}$  to check out what we have built.

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