

ReactJs

JSX:

- JSX allows us to write HTML in React.
- JSX makes it easier to write and add HTML in React.
- JSX allows us to write HTML elements in JavaScript and place them in the DOM without any `createElement()` and/or `appendChild()` methods.
- JSX converts HTML tags into react elements.
- With JSX we can write expressions inside curly braces `{ }`.

Real DOM:

- DOM stands for Document Object Model and is an abstraction of a structured text. For web developers, this text is an HTML code, and the DOM is simply called HTML DOM. Elements of HTML become nodes in the DOM.
- If one of these list items updates, then the DOM re-renders the entire list. This is where the DOM's inefficiency stems from. This is inefficient because it requires traversing every single node recursively.

Virtual DOM:

- When we try to update the DOM in React The entire virtual DOM gets updated.
- The virtual DOM gets compared to what it looked like before you updated it. React figures out which objects have changed.
- The changed objects, and the changed objects only, get updated on the real DOM.