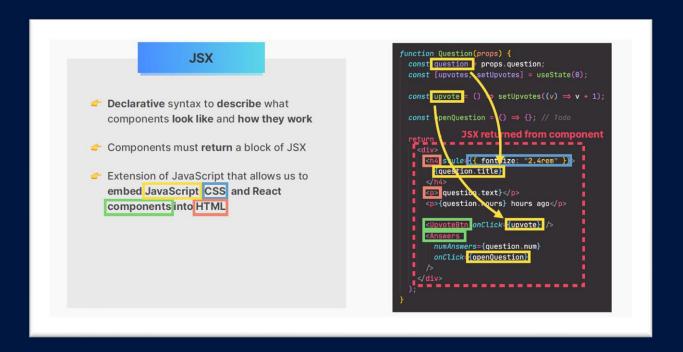


# **JSX**

## JSX stands for JavaScript XML







### **JSX**

- Declarative syntax to describe what components look like and how they work
- Components must return a block of JSX
- Extension of JavaScript that allows us to embed JavaScript, CSS, and React components into HTML
- Each JSX element is converted to a React.createElement function call
- We could use React without JSX

### **IMPERATIVE**





- Manual DOM element selections and DOM traversing
- Step-by-step DOM mutations until we reach the desired UI

### JS

### DECLARATIVE



- Describe what UI should look like using JSX, based on current data
- React is an abstraction away from DOM: we never touch the DOM
- Instead, we think of the UI as a reflection of the current data





#### **GENERAL JSX RULES**

- JSX works essentially like HTML, but we can enter "JavaScript mode" by using {} (for text or attributes)
- We can place JavaScript expressions inside {}.
  Examples: reference variables, create arrays or objects,
  [].map(), ternary operator
- Statements are not allowed (if/else, for, switch)
- JSX produces a JavaScript expression
- - We can place other pieces of JSX inside {}
  - We can write JSX anywhere inside a component (in if/else, assign to variables, pass it into functions)
  - ✓ A piece of JSX can only have one root element. If you
    need more, use <React.Fragment> (or the short <>)

### DIFFERENCES BETWEEN WJSX AND THIML

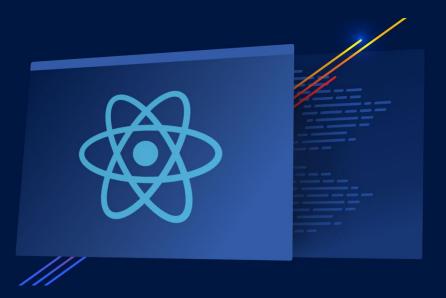
- className instead of HTML's class
- htmlFor instead of HTML's for
- Every tag needs to be closed. Examples: <img /> or <br/> />
- All event handlers and other properties need to be camelCased. Examples: onClick or onMouseOver
- **Exception**: aria-\* and data-\* are written with dashes like in HTML
- CSS inline styles are written like this: {{<style>}} (to reference a variable, and then an object)
- CSS property names are also camelCased
- Comments need to be in {} (because they are JS)





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