

**Skills**  
Network

## Introduction to JSX

**IBM**

# What you will learn

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Explain the purpose of JSX



Describe JSX syntax



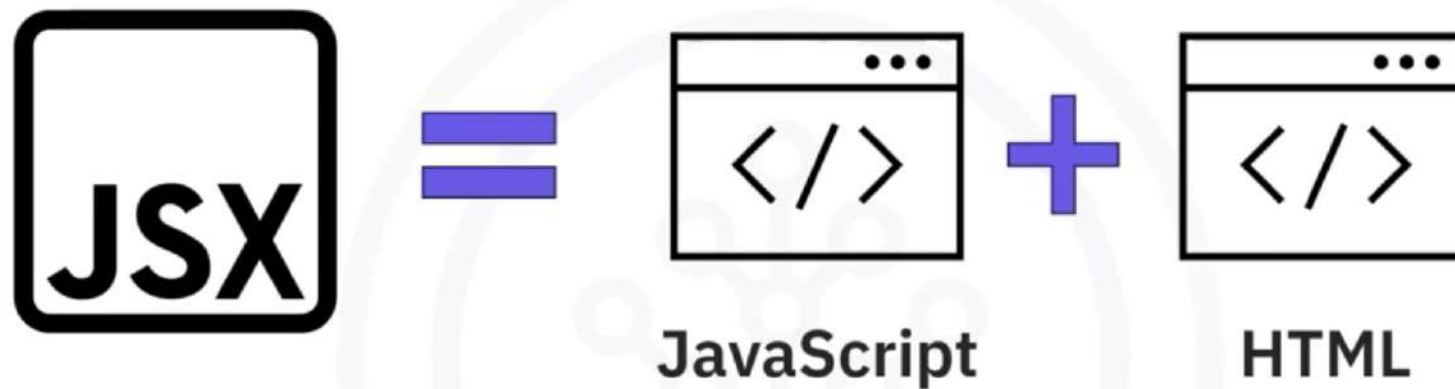
Explain why JSX needs compiling



Summarize the benefits of JSX

# Purpose

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Looks like HTML

Also supports JavaScript expressions

# Syntax

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**Uses HTML  
elements**

**< / >**

**Elements  
enclosed in angle  
brackets**

## Sample code

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```
const myHeader = <h1>This is a sample JSX code snippet</h1>
```

JavaScript  
expression

Looks like HTML

Automatically rendered to the DOM

# Compiling

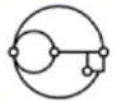
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Browsers don't understand JSX

Transforms JSX into JS objects

Use `create-react-app` command

# Benefits of JSX



More accessible



Early identification of errors



Inline styles keep code simple



Performance



More secure



# JSX vs JavaScript

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```
function App ()  
  { return (  
    <div>  
      <p><This is a sample list></p>  
      <ul>  
        <li>List item no. 1 </li>  
        <li>List item no. 2 </li>  
      </ul>  
    <div>  
  ); }
```



# JSX vs JavaScript

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```
function App () {  
  return React.createElement(  
    "div",  
    null,  
    React.createElement ("p", null, "This is a sample list",  
      React.createElement ("ul", null,  
        React.createElement ("li", null, "List item no. 1"),  
        React.createElement ("li", null, "List item no. 2")  
      )  
    );  
}
```

# Recap

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In this video, you learned that:

- JSX reads similarly to HTML
- JSX uses HTML elements combined with JavaScript expressions
- JSX relies on compilers to transform HTML-like text into standard JavaScript objects
- The benefits of using JSX include:
  - Easily readable code
  - Error identification
  - Improved performance
  - Added security