# **What is React?**

React is a **JavaScript** library created by **Facebook**

React is a **User Interface** (UI) library

React is a tool for building **UI components**

## **What is Babel?**

Babel is a JavaScript compiler that can translate markup or programming languages into JavaScript.

With Babel, you can use the newest features of JavaScript (ES6 - ECMAScript 2015).

Babel is available for different conversions. React uses Babel to convert JSX into JavaScript.

Please note that <script type="text/babel"> is needed for using Babel.

## **What is JSX?**

# JSX stands for **J**ava**S**cript **X**ML.

JSX is an XML/HTML like extension to JavaScript.

### Example

const element = <h1>Hello World!</h1>

**What is the DOM?**

The DOM is an object representation of the HTML elements. It acts as a bridge between your code and the user interface, and has a tree-like structure with parent and child relationships.

A screenshot of a computer

Description automatically generated

You can use DOM methods and a programming language, such as JavaScript, to listen to user events and [manipulate the DOM](https://developer.mozilla.org/en-US/docs/Learn/JavaScript/Client-side_web_APIs/Manipulating_documents) by selecting, adding, updating, and deleting specific elements in the user interface. DOM manipulation allows you to not only target specific elements, but also change their style and content.

Let’s see how you can use JavaScript and DOM methods in the next section.