Fast, simple and scalable

React (sometimes styled React.js or ReactJS) is an open-source JavaScript library for building user interfaces. This corresponds to View in the Model-View-Controller (MVC) template, and can be used in combination with other JavaScript libraries or frameworks in MVC, such as AngularJS.

Large web applications that use data which can change over time, without reloading the page.

# Feature

## One-way data flow

"properties flow down; actions flow up".

## Virtual DOM

"virtual Document Object Model", or "virtual DOM". React creates an in-memory data structure cache, computes the resulting differences, and then updates the browser's displayed DOM efficiently. This allows the programmer to write code as if the entire page is rendered on each change, while the React libraries only render subcomponents that actually change.

## JSX

React components are typically written in JSX

This is a React-specific grammar extension to JavaScript

An example of JSX code:

import React from 'react';

class App extends React.Component {

render() {

return (

<div>

<p>Header</p>

<p>Content</p>

<p>Footer</p>

</div>

);

}

}

export default App;

### Nested elements

If you want to return more elements, you will need to wrap it in a single container element like the <div> element shown above.

### Attributes

You can add your own custom attributes in addition to HTML attributes. The custom attributes need to be added with data- prefix.

### Javascript expressions

Javascript expressions can be used inside JSX with curly brackets {}:

<h1>{10+1}</h1>

### Ternary operators

<h1>{ i === 1 ? 'true' : 'false' }</h1>

### dynamic charts that render

### React Native

React architecture to native iOS, Android and UWP[[18]](https://en.wikipedia.org/wiki/React_%28JavaScript_library%29" \l "cite_note-18) applications. 2015.

History

It was first deployed on Facebook's newsfeed in 2011 and later on Instagram.com in 2012.

React was created by Jordan Walke, a software engineer at Facebook.

[React Native](https://en.wikipedia.org/wiki/React_%28JavaScript_library%29#React_Native), which enables native iOS, Android and [UWP](https://en.wikipedia.org/wiki/Universal_Windows_Platform) development with React, was announced at Facebook's React.js Conf in February 2015 and open-sourced in March 2015.

On April 18, 2017, Facebook announced React Fiber – core.