Angular vs React

REACT.js and **ANGULAR** are two popular JavaScript frameworks used for building web applications, but they have different philosophies and approaches to web development.

Language Type

Angular: Uses TypeScript, a statically typed superset of JavaScript.

React: Primarily uses JavaScript, but can be combined with TypeScript. TypeScript support is growing within the React community for better type safety.

Data Binding

Angular: Supports two-way data binding, which automatically synchronizes the data between the model and the view.

React: Uses one-way data binding, where the UI is updated only when the model state changes.

Community and Ecosystem

Angular: Has a large and active community with extensive documentation and a robust ecosystem, including tools like Angular CLI.

React: Also has a vast community and ecosystem, with numerous third-party libraries and tools. React's flexibility allows for easy integration with other libraries.

Learning Curve

Angular: Steeper learning curve due to its complexity and comprehensive nature. Requires understanding of TypeScript and its architecture.

React: Easier to learn for those familiar with JavaScript. Simpler API and less opinionated, but often requires learning additional tools and libraries for a full-fledged application.

Architecture

Angular: Follows the MVC (Model-View-Controller) or MVVM (Model-View-ViewModel) architecture. It is opinionated and provides a complete solution with services, dependency injection, and more.

React: Follows a component-based architecture. It is unopinionated, focusing on the 'View' in the MVC model, and relies on external libraries for routing and state management.

Summary

Angular is a comprehensive framework best for large-scale applications with built-in features and strict structure.

React is a flexible library ideal for building dynamic user interfaces with a focus on simplicity and component-based architecture.