July 2017: Angular2 vs React – New Comparison

VS

React

TYPE

Open source web app development framework. Performs fully on client-side.

JavaScript library. Performs both on client-side and server-side.

DEVELOPER

GOOGLE

Maintained by Google, individuals and co-operations.

FACEBOOK

Maintained by Facebook, Instagram and developer community.

USAGE

Builds dynamic apps. It troubleshoots of Single Page Applications

Build User Interface. Troubleshoots challenge of building large dynamic data apps

CONCEPT

- Component-based architecture
- Real DOM
- Client-side and server-side rendering

- Component-based architecture
- Virtual DOM
- Server-side rendering

SUPPORTED LANGUAGE

- TypeScript
- CoffeeScript
- JavaScript

- JSX JSX
- TypeScript
- JavaScript

ARCHITECTURE

- Uses a hierarchy of components as its main architecture

- Based on JSX components

ROUTING

- Provides built-in routing support

- Uses external libraries for routing so features would vary from one to the another

BINDING

- Focuses on property building and event binding

- There is no actual data binding, React manages states and props for the same

DEPENDENCY MANAGEMENT

- Uses built-in framework for managing dependencies

- Requires ReactDI to manage dependencies

SPEED

1.35s

310ms

DOM

- Browser

- Virtual; only renders changed data with a patching mechanism

BOOTSTRAP PERFORMANCE

- 490.1 ms Scripting
- ms Rendering
- 0.7 ms Painting
- 47.9ms other

- 115.9ms Scripting
- 0.6ms Rendering
- 0.7ms Painting
- 47.9ms other

LEARNING CURVE

- Difficult at first, requires knowledge of specific concepts such as DOM directives, filters and factories

- Easier to start; contains a simplified API and syntax

STRUCTURE OF COMPONENTS

- HTML, JS and CSS

- integrate HTML with JS, using JSX

STRENGTHS

- Performance
- Server-side rendering
- Native GUI
- Easy to test
- sMost popular frameworks
- Framework approach
- ES2015

- Performance
- Server-side rendering
- Server-side rendering
- Native GUI
- Implicity
- Library approach
- ES2015

WEAKNESS

- Documentation is a bit poor
- Hard to find resources. Completely different from Angular1

- FLUX architecture is not what people are used to
- JSX. It is not required, but commonly used with React

WHEN TO USE?

- For quick deadlines. When requires a comprehensive framework arises.

- For developing dynamic content. For single page view of content.

THE VERDICT

Basically, Angular2 has cut off the unnecessary complexity, which were in Angular/JS. The favorable thing about Angular2 is, it uses a single code base, for both mobile and desktop apps.A large number of developers are familiar with Angular 2 and know how to work with this framework.

React is lightweight and features a virtual DOM. It's lightning fast for web apps that render large amounts of data; however, it only contains the view component.It has great developer tools that force modern best practices.ReactJS is offering the capability of developing mobile apps using logic from web app with React Native

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