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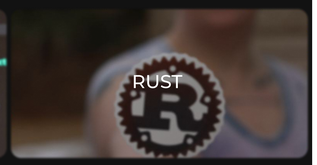

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What is TypeScript?

TypeScript is a powerful programming language developed and maintained by Microsoft. It's a superset of JavaScript, which means it includes all of JavaScript's features and adds its own unique components. TypeScript was designed to improve the development process, particularly for large-scale applications, by introducing types, classes, and interfaces—concepts familiar to developers with backgrounds in statically-typed languages like Java or C#.

Why Use TypeScript?

The core advantage of TypeScript is its ability to add strict type checking to JavaScript. Type checking ensures that values match expected types, catching errors early in the development process, which can save developers a significant amount of debugging time. Here are some key benefits of using TypeScript:

- Early Bug Detection: By checking types before runtime, TypeScript identifies common errors as you write the code. This early detection helps to avoid runtime errors and improve code quality.
- Readability and Maintenance: TypeScript's explicit type system makes the code more readable and easier to understand. This is especially useful for new team members or when revisiting old codebases.
- Rich IDE Support: TypeScript is supported by many popular Integrated Development Environments (IDEs) and code editors like Visual Studio Code, WebStorm, and Sublime Text. These tools provide helpful features such as auto-completion, navigation, and refactorings.
- Scalability: Designed for developing large applications, TypeScript's features like classes, modules, and interfaces make it easier to organize and maintain complex codebases.

Comments

Jane Doe • Jun 12

I think this should help someone get some metrics but should also provide a guidance on what should be probable actionables.
I am like ok, these are my metrics but now what? I think showing metrics is good as it saves time in gathering information and build data on them but real goldmine would be insights along with actionables, if one can provide.

Jane Doe • Jun 12

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Contact

Our Authors

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Full Stack + Web Development
Switzerland Joined on Oct 21, 2019

John Doe stands as a pivotal figure in the world of web development, embodying the rare blend of expertise in both frontend and backend technologies. With years of experience under his belt, John has carved out a significant niche as a fullstack developer, capable of handling comprehensive aspects of building websites and applications from scratch.

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