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| --- | --- | --- |
| **Feature** | **TypeScript** | **Legacy JavaScript** |
| Superset of JavaScript | Checkmark |  |
| Large-scale application development | Checkmark | Close |
| Quick and dirty development | Close | Checkmark |
| Modular/structured programming | Checkmark | Close |
| OOPS-based | Checkmark | Close |
| Static typing | Checkmark | Close |
| Dynamic typing | Checkmark | Checkmark |
| Strongly-typed | Checkmark | Close |
| Abstraction/interfaces | Checkmark | Close |
| Inheritance/classes | Checkmark | Close |
| Maintainable | Checkmark |  |
| Namespaces | Checkmark | Close |
| Code annotation/Decorators | Checkmark | Close |
| Generics | Checkmark | Close |
| Optional and named params | Checkmark | Close |
| Type inference | Checkmark | Close |
| Stronger IDE/code editor support | Checkmark | Close |
| Easily build IDE plugins | Checkmark | Close |
| Compile-time errors | Checkmark | Close |
| Easy debugging | Checkmark | Close |
| Server-side programming | Checkmark | Checkmark |
| Client-side programming | Checkmark | Checkmark |
| Header files | Checkmark | Close |
| Access modifiers | Checkmark | Close |
| Arrow functions | Checkmark | Close |
| Interpreted language | Compiled language | Checkmark |
| Functional programming language | Close | Checkmark |
| Broader Framework support | Close | Checkmark |
| Broader browser support | Close | Checkmark |
| Transpilation | Checkmark | Close |
| External Library reference | Checkmark | Close |
| Data binding – types/interfaces | Checkmark | Close |
| Stronger testing workflow | Close | Checkmark |
| Scripting language | Close | Checkmark |
| Run-time errors probability | Close | Checkmark |
| Npm package-based | Checkmark | Close |
| Secured programming | Checkmark | Close |

Legacy Javascipt is before ES6 (2015)

TypeScript 2012

<https://www.theserverside.com/tip/JavaScript-vs-TypeScript-Whats-the-difference#:~:text=TypeScript%20can%20be%20strongly%20typed,decorators%2C%20while%20JavaScript%20does%20not>.

<https://radixweb.com/blog/typescript-vs-javascript>