

## TypeScript Interview Questions

1. What is TypeScript and how is it different from JavaScript?
2. What are the key features of TypeScript?
3. How does TypeScript improve code quality and development?
4. What is the difference between 'any', 'unknown', and 'never' types?
5. What are interfaces in TypeScript? How are they different from type aliases?
6. What are enums in TypeScript? When would you use them?
7. What is type inference in TypeScript?
8. What is the difference between optional and default parameters in TypeScript?
9. What are generics in TypeScript? How are they used?
10. How does TypeScript handle type compatibility and structural typing?
11. What are union and intersection types in TypeScript?
12. What is a tuple in TypeScript?
13. What are utility types in TypeScript like Partial, Readonly, Pick, and Omit?
14. How can you create and use custom types in TypeScript?
15. What is type assertion in TypeScript?
16. How do you use modules and namespaces in TypeScript?
17. What is declaration merging in TypeScript?
18. What are ambient declarations and when are they used?
19. How does TypeScript handle third-party JavaScript libraries?
20. What is tsconfig.json and what are its key options?
21. What are the benefits of using TypeScript in large-scale applications?
22. How does TypeScript support React and Angular development?
23. How do you configure TypeScript in a Node.js project?
24. What is the difference between compile-time and runtime errors in TypeScript?
25. What are mapped types in TypeScript?

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26. What are discriminated unions and how are they used?