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Interview Preparation

# 20 TypeScript Interview Questions and Answers You Should Prepare For

2025-11-24 27 min read Written by [William Juan](#)

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**Summary:** Use this list of TypeScript interview questions and answers to prepare for your upcoming meeting with a recruiter or lead engineer!

Looking to hire a TypeScript developer or hoping to become a TypeScript developer? These **TypeScript interview questions and answers** can help you put together a comprehensive list of questions to ask during your interview.

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specifically about JavaScript.

In this guide, we break down the important TypeScript interview questions to know into three groups:

- [Basic TypeScript Interview Questions](#)
- [Intermediate TypeScript Interview Questions](#)
- [Advanced TypeScript Interview Questions](#)

You can expect to learn about what questions to expect, and what to focus on evaluating answers to expect, and what to focus on evaluating. Additionally, we'll explain *why you should ask* questions, *what you should look for*, and *what you want to draw out from* the answers.

And, at the end of the article (as well as a few links) we'll link you to some other helpful interview advice.

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## Basic TypeScript Interview

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## 1. What is TypeScript and how JavaScript?

*This is a fundamental question that interviewers ask to assess a candidate's familiarity with the language and its features. Make sure your candidate can explain the language, its core features, and how it relates to JavaScript.*

TypeScript is a **superset** of JavaScript that adds static typing. Conceptually, the relationship between TypeScript and JavaScript is comparable to that of SASS and CSS. In other words, TypeScript is like JavaScript's ES6 version with some additional features.

TypeScript is an **object-oriented** and **statically typed** language, similar to Java and C#, whereas JavaScript is a dynamically typed script like Python. The object-oriented nature of TypeScript includes features such as classes and interfaces, and its static typing is supported by tooling with type inference at your disposal.

From a code perspective, TypeScript is written as a `.ts` extension whereas JavaScript is written as `.js`. Unlike JavaScript, TypeScript code is not understood by the browser and can't be executed directly in the browser. The `.ts` files need to be transpiled using TypeScript compiler to plain JavaScript first, which then gets executed.

## 2. What are the benefits of using TypeScript?

*Each programming language has its pros and cons. TypeScript is no exception. You might ask this question to assess a candidate's understanding of the language's advantages.*

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*Instead of just listing out TypeScript's benefits your candidates' to talk about how a typical pr TypeScript. This could range from better main [increased developer productivity](#) because of t offers.*

An immediate advantage of using TypeScript strongly typed language that uses type inferer open the doors to better tooling and tighter int TypeScript's strict checks catch your errors ea chances of typos and other human errors from production. From an IDE's perspective, TypeS opportunity for your IDE to understand your c display better hints, warnings, and errors to th TypeScript's **strict null check** throws an error IDE) preventing a common JavaScript error of property of an undefined variable at runtime.

A long-run advantage of using TypeScript is its maintainability. The ability to describe the sha directly in your code makes your codebase ea predictable. When used correctly, TypeScript | standardized language resulting in better reac time and effort down the road as the codebas

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## 3. What are interfaces in TypeScript

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*feature. An ideal answer should also include it using interfaces.*

Interfaces are TypeScript's way of defining the words, interfaces are a way to describe data structures, array of objects.

We declare interfaces with the help of the `interface` keyword by the interface name and its definition. Let's look at a user object

```
interface User {  
  name: string;  
  age: number;  
}
```

The interface can then be used to set the type of a variable (you assign primitive types to a variable). A variable then conform to the interface's properties.

```
let user: User = {  
  name: "Bob",  
  age: 20, // omitting the `age` property  
  // different type instead of a number would be an error  
};
```

Interfaces help drive consistency in your TypeScript code. Interfaces also improve your project's tooling, provide autocomplete functionality in your IDEs and ensure that the right arguments are being passed into constructors and functions.

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*Being able to modify an interface is useful to r  
max\_Being able to modify an interface is usef  
and maximize the reusability of existing interfa  
This question covers one of the many features:  
create a new interface from an existing interfa*

TypeScript has a utility type called `omit` that l  
by passing a current type/interface and select  
from the new type. The example below shows  
type `UserPreview` based on the `User` interf  
the `email` property.

```
interface User {  
  name: string;  
  description: string;  
  age: number;  
  email: string;  
}
```

```
// removes the `email` property from th  
type UserPreview = Omit<User, "email">;
```

```
const userPreview: UserPreview = {  
  name: "Bob",  
  description: "Awesome guy",  
  age: 20,  
};
```

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*Enums are a common data structure in most languages. Understanding enums and how to use them is a key skill for developers. This article explains enums at a high level, along with their use in TypeScript.*

Enums or enumerated types are a means of creating a set of constants. These data structures have a constant value. Enums in TypeScript are a set number of options for a given value using the `enum` keyword.

Let's look at an example of an enum to define user types.

```
enum UserType {
  Guest = "G",
  Verified = "V",
  Admin = "A",
}
```

```
const userType: UserType = UserType.Verified;
```

Under the hood, TypeScript translates enums into `const` variables after compilation. This makes the use of enums similar to using multiple independent `const` variables. This approach makes your code type-safe and more readable.

## 6. What are arrow functions in TypeScript?

*Arrow function is a popular feature of ES6 and provides an alternate shorter way of defining functions. Like all functions, arrow functions come with their pros and cons, which you should consider when choosing which method to use.*

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create callback functions in TypeScript. Array as map, filter, and reduce all accept arrow arguments.

However, arrow functions' anonymity also has the shorter arrow function syntax can be more Furthermore, arrow functions' nameless nature create self-referencing functions (i.e. recursion)

Let's take a look at a regular function that accepts two arguments and returns their sum.

```
function addNumbers(x: number, y: number): number {  
    return x + y;  
}
```

```
addNumbers(1, 2); // returns 3
```

Now let's convert the function above into an arrow function

```
const addNumbers = (x: number, y: number): number => {  
    return x + y;  
};
```

```
addNumbers(1, 2); // returns 3
```

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## 7. What are the differences between let and const?

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*keywords and understanding which to use when writing quality code. As the candidate, make a case for each of the keywords along with their*

- **var**: Declares a function-scoped or global variable and scoping rules to JavaScript's var variable require setting its value during its declaration.
- **let**: Declares a block-scoped local variable. When setting a value of a variable during its declaration, a variable means that the variable can only be accessed within the containing block, such as a function, an if/else block. Furthermore, unlike var, let variables cannot be redeclared before they are declared.

```
// reading/writing before a `let` variable  
console.log("age", age); // Compiler Error  
Block-scoped variable 'age' used before  
age = 20; // Compiler Error: error TS24  
variable 'age' used before its declaration
```

```
let age: number;
```

```
// accessing `let` variable outside its scope  
function user(): void {  
  let name: string;  
  if (true) {  
    let email: string;  
    console.log(name); // OK  
    console.log(email); // OK  
  }  
  console.log(name); // OK  
  console.log(email); // Compiler Error
```

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- **const**: Declares a block-scoped constant variable after it's initialized. `const` variables require an explicit declaration. This is ideal for variables that don't change over their lifetime.

```
// reassigning a `const` variable
const age: number = 20;
age = 30; // Compiler Error: Cannot assign to a constant or read-only property
```

```
// declaring a `const` variable without initialization
const name: string; // Compiler Error: Variable 'name' has no initializer and is not assigned a value
```

**Sidenote:** Linters do a great job in catching these errors. Compilers will throw an error if a rule is violated by these keywords.

## 8. When do you use a return type? how does it differ from void?

This is a question that showcases the candidate's understanding of TypeScript's types and their use cases in the code. The candidate should be able to distinguish between different types and identify the return type of a function by looking at its signature.

Before diving into the differences between `void` and `return`, let's first understand the behavior of a JavaScript function without an explicit return type.

Let's take the function in the example below. If you call it without assigning anything to the caller. However, if you assign it to a variable, it will return `undefined`.

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```
printName(name: string): void {  
  console.log(name);  
}  
  
const printer = printName('Will');  
console.log(printer); // logs "undefined"
```

The above snippet is an example of void function. In TypeScript, explicit returns are inferred by TypeScript to have a void return type.

In contrast, never is a type that represents a value that never exists. For example, a function with an infinite loop or a function that never returns are functions that have a never return type.

```
const error = (): never => {  
  throw new Error("");  
};
```

In summary, void is used whenever a function does not return a value explicitly, whereas never is used whenever a function is designed to never return.

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## 9. What access modifiers are supported in TypeScript?

*Access modifiers and encapsulation go hand-in-hand. Understanding the candidate's knowledge of encapsulation and TypeScript's approach to access modifiers is an opportunity to understand the candidate's understanding of TypeScript's approach to encapsulation.*

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The concept of “**encapsulation**” is used in object-oriented programming to control the visibility of its properties and methods. Access modifiers to set the visibility of a class. TypeScript gets compiled to JavaScript, logic is applied during compile time, not at run time.

There are three types of access modifiers in TypeScript: `public`, `private`, and `protected`.

- **public**: All properties and methods are public. All properties and methods of a class are visible and accessible from anywhere.
- **protected**: Protected properties and methods are accessible only within the class and its subclass. For example, a variable declared with the `protected` keyword will be accessible from within the class and within a different class that extends the class or method.
- **private**: Private properties and methods are only accessible within the class where the property or method is defined.

To use any of these access modifiers, add the modifier before the property or method name. If omitted, TypeScript will default to `public` for the property or method.

```
class User {  
  private username; // only accessible from outside the class  
  
  // only accessible inside the `User` class  
  protected updateUser(): void {}  
  
  // accessible from any location  
}
```

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Violating the rules of the access modifier, such as accessing a class's private property from a different class, results in a TypeScript error during the compilation process.

```
Property '<property-name>' is private and only accessible within class '<class-name>'.
```

In conclusion, access modifiers play an important role in TypeScript code. They allow you to expose a set of public methods and hide implementation details. You can think of access modifiers as entry gates to your class. Effective use of access modifiers helps reduce the chance of errors from misusing another class's internal state.

## 10. What are generics and how do they work in TypeScript?

*In addition to the “what”, an interviewer asking about generics is also looking for answers on how generics tie into TypeScript's type system, the reasoning behind using generics over other type-related features, and how to be comfortable discussing what generics are, their benefits, and their use cases.*

Good software engineering practice often encourages flexibility. The use of **generics** provides reusability by allowing a component to work over a variety of types without losing type safety while preserving its precision (unlike the use of `any`).

Below is an example of a generic function that takes a type to be used within the function.

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```
    return arg;  
}
```

To call a generic function, you can either pass angle brackets or via *type argument inference* type based on the type of the argument passed.

```
// explicitly specifying the type  
let user = updateUser<string>("Bob");  
  
// type argument inference  
let user = updateUser("Bob");
```

Generics allows us to keep track of the type in function. This makes the code flexible and reusable on its type accuracy.

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## Intermediate TypeScript Interview Questions

The following set of questions should test the knowledge of TypeScript and some of its wide

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*preferred option because of its safer typing. You can use the `unknown` type to explain what the unknown type is used for*

`unknown` is a special type that is similar to `any`. A common case of the unknown type is when you don't know the type of a value upfront. `unknown` variables accept any value. Before you can operate on an unknown variable, TypeScript requires you to perform a type assertion. This difference makes `unknown` safer than `any`.

Let's look at two examples to highlight the difference between `any` and `unknown` types.

The snippet below shows a valid TypeScript code using `any` as the `callback` parameter, and the `invokeCallback` method will try to call it. This will not cause any compile-time error, however, it could lead to a runtime error if you pass in a variable that's not callable as the `callback`.

```
invokeCallback(callback: any): void {
  callback();
}
```

The `unknown` equivalent of the above example is shown below. It checks before calling the `callback` function. This prevents the runtime error above from happening.

```
invokeCallback(callback: unknown): void {
  if (typeof callback === 'function') {
    callback();
  }
}
```

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assertion to perform any operation on the vari

## 2. What is noImplicitAny and its purpose?

*This is a TypeScript configuration question that tests the level of familiarity the candidate has with the project. Although this is only one property from the configurable properties, noImplicitAny plays a significant role in many projects.*

noImplicitAny is a property in a TypeScript configuration file (tsconfig.json) that modifies how TypeScript infers a project's implicit any types. The noImplicitAny property can be set to true or false and can always be changed later. As to what this value should be as each project decides on what the flag should be set to, it is important to understand the differences between when it's turned on and when it's turned off.

When the noImplicitAny flag is false (by default), TypeScript will infer the variable type based on how it's used. If it can't infer the type, it defaults the type to any.

On the other hand, when the noImplicitAny flag is true, TypeScript will attempt to infer the type, throwing a compilation error if it isn't able to infer the type.



**Setting the noImplicitAny flag to either true or false prevents you from setting a variable's type to any.**

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## 3. What are conditional types in TypeScript?

*Sometimes, a variable's type is dependent on a condition. Conditional types help bridge the input and output's type – transmute based on a set condition. Conditional type is a feature that helps write type-safe framework/library boundaries. Although the candidate might not use them every day, they might be using them indirectly through frameworks or libraries.*

Conditional types in TypeScript are similar to the ternary operator. As the name suggests, it assigns a type to the variable based on a condition.

The general expression for defining a conditional type follows:

```
A extends B ? X : Y
```

Type X in the snippet above is applied if the condition is true, whereas type Y is applied if the condition is false. In other words, type X is assigned if A extends B, while type Y is assigned if A does not extend B.

## 4. What is the difference between union and intersection types?

*Union and intersection types are considered advanced features in TypeScript. Understanding this is important for developers working on TypeScript projects to reduce duplication of code.*

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Unions and intersection types let you compose types instead of creating them from scratch. Each comes with their unique characteristics which result in different use cases.

A **union** type is described as a type that can be one of several types. Union type uses the `|` (vertical bar) symbol to denote the types that will be used in the new type. Let's take a look at an example:

```
interface B {  
  name: string,  
  email: string  
}
```

```
interface C {  
  name: string,  
  age: number  
}
```

```
type A = B | C;
```

A in the snippet above can either be of type B or C. In other words, if we have interfaces, A can either contain name and email or name and age, but not email and age.

When accessing type A, TypeScript only lets you access properties that exist in both B and C (name) as those are the only properties that can be certain of their existence.

**Intersection** on the other hand, is described as a type that combines multiple types into one – combining all the properties of the types to create a new type. Intersection uses the `&` symbol to denote the types that will be combined. Let's look at an example:

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```
    name: string,  
    email: string  
}
```

```
interface C {  
    name: string,  
    age: number  
}
```

```
type A = B & C;
```

A in the snippet above will contain all the prop both B and C (name, email, and age).

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## 5. What is the difference between implements in TypeScript?

*Inheritance is an important concept in object-oriented programming, specifically for polymorphism and code reusability. In TypeScript, the keywords that are used for inheritance are `extends` and `implements`. This question is designed to test a candidate's knowledge of the concept of inheritance in TypeScript.*

Implements and extends have different uses. individual and take a look at an example to compare them.

When a class **extends** another class, the child class inherits all the properties and methods of the class it extends. When a class **implements** an interface, it must implement all the properties and methods of its parent interface.

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interface. The `implements` keyword acts as to follow, and TypeScript will make sure that the shape as the class or interface it implements.

Let's look at an example of a class and how a implement it.

```
class User {  
  name: string;  
  age: number;  
}  
  
// John will contain name and age from  
class John extends User {}  
  
// this will result in an error as Bob  
properties that  
// the User class has  
class Bob implements User {}  
  
// This is valid as Mike satisfies the  
the  
// User class  
class Mike implements User {  
  name = 'Mike';  
  age = 25  
}
```

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The following set of advanced questions for TypeScript will test your candidates' deep knowledge of TS at an advanced level concepts and features.

## 1. Explain how optional chaining works in TypeScript.

*Optional chaining is a TypeScript feature that allows for the safe accessing of values inside deep objects. Under the hood, this feature will help developers write more concise and safer code (as it makes sense). A candidate should be able to explain what optional chaining is and also elaborate on its use case.*

Optional chaining allows you to access properties of an object deep within an object without having to check if the reference exists in the chain.

Optional chaining uses the question mark followed by the dot operator. TypeScript evaluates each reference in the chain for null or undefined check before accessing its value. If it fails, it immediately stops the execution when it fails and returns undefined for the entire chain.

The code snippet below is an example of accessing a nested property without using optional chaining.

```
const user = {
  personalInfo: {
    name: 'John'
  }
}

// without optional chaining
const name = user && user.personalInfo.name
```

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```
// with optional chaining
const name = user?.personalInfo?.name;
```

## 2. What are abstract classes?

*Abstract class is another feature of TypeScript concept in object-oriented programming (OOP) to get an insight into the candidate's understanding of advanced features in TypeScript.*

Abstract classes specify a contract for the objects that instantiate them directly. However, an abstract class does not provide implementation details for its members.

An abstract class contains one or more abstract methods. Any class that extends the abstract class will then have to implement those methods for the superclass's abstract members.

Let's look at an example of how an abstract class works and how another class can extend it. In the example, both Car and Bike extend the Vehicle class and provide a different implementation of the drive() method.

```
abstract class Vehicle {

    abstract drive(): void;

    startEngine(): void {
        console.log('Engine starting...');
    }
}

class Car extends Vehicle {
    drive(): void {
```

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```
}
```

```
class Bike extends Vehicle {
  drive(): void {
    console.log('Driving on a bike');
  }
}
```

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## 3. What are type assertions in

*Type assertions are a way to tell TypeScript that types are widely used in TypeScript application scenarios where you want to specify a more specific candidate should be able to explain not only the variable's type but also their syntax and the reasons behind why they are using it.*

Type assertion allows you to explicitly set the type of a variable, telling the compiler not to infer it. This is useful when you need to use a variable more specifically than its current type or current inferred type. In such cases, you can use type assertions to tell TypeScript the variable's type.

TypeScript provides two syntaxes for type assertions:

```
// using the `as` keyword
const name: string = person.name as string

// using `<>`
const name: string = <string>person.name
```

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TypeScript projects.

## 4. What is the difference between type inference and contextual typing?

*Type inference is a key feature in TypeScript that allows the compiler to deduce the type of a variable or expression based on the context in which it is used. This is both less error-prone and easier to use than manual type annotations. A common question to gauge your candidate's understanding of type inference and their overall familiarity with TypeScript is to ask them to explain the difference between type inference and contextual typing.*

TypeScript can infer the type of a variable usually from its initialization or declaration. This process is known as type inference.

The snippet below is an example of type inference. TypeScript infers the type of `name` as `"string"` based on the value assigned to it.

```
let name = 'john'
```

**Contextual typing** is a subset of type inference. It uses the location or context of a variable to infer its type. This is the opposite of type inference, which infers the type of a variable based on its value.

In the snippet below, TypeScript uses information from the `onmousedown` function to infer the type of the `mouseEvent` parameter.

```
window.onmousedown = function(mouseEvent) {
  console.log(mouseEvent.button); // 
  console.log(mouseEvent.person); // 
};
```

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## 5. How does function overload TypeScript?

*Function overloading helps make functions more flexible by allowing the same function to behave a different way depending on the input passed in. In addition to the how, you may also learn how function overloads tie into the code review and other benefits it provides.*

Function overload is when the same function is used with a different set of arguments – the number and the return types.

Let's look at an example of how a print function can be typed as its parameter by using function overloads.

```
print(message: string): void;
print(message: string[]): void;

print(message: unknown): void {
  if (typeof message === 'string') {
    console.log(message);
  } else if (Array.isArray(message)) {
    message.forEach((individualMessage) => {
      console.log(individualMessage);
    });
  } else {
    throw new Error('unable to print');
  }
}
```

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```
print('Single message');  
// Console Output:  
// Single message  
  
print(['First message', 'Second message'  
// Console Output  
// First message  
// Second message
```

Apart from the reusability of the function, function with autocomplete support. When calling a function in an IDE, you will be provided with a list of all possible choices to choose from for your specific use case, creating a better experience.

## Conclusion

Whether you're a hiring manager looking for the best developer preparing for an interview, we hope these questions help you through the process.

Keep in mind that technical skills and knowledge are not the only factors in the hiring process. Past experiences and soft skills also make sure you hire the best candidate (or land the best job).

Good luck on your upcoming TypeScript interview. Here are some helpful guides to read:

- [8 Common Interview Mistakes Remote Software Engineers Make](#)
- [8 Behavioral Interview Questions Asked by Top Tech Companies](#)
- [10+ Tips for Preparing for a Remote Software Engineering Interview](#)

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- [Phone Screen Interview vs Actual Phone Interview Differences](#)
- [How to Write a Great Thank-You Email After an Interview](#)

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Written by  
**William Juan**

## Web & Mobile Front-End Dev

William is a front-end developer working primarily in the web. The majority of his work has revolved around the Angular ecosystem. He has worked on Angular-related frameworks such as NativeScript and Ionic. At the moment, he has gained over years as a writer on software development.



## Further reading

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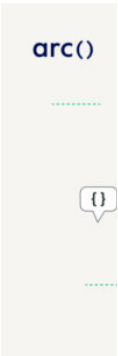
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