

# FROM JAVASCRIPT TO TYPESCRIPT



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# WHAT IS **TYPESCRIPT** ?

TypeScript is a strongly typed, object-oriented, compiled language. It's a superset of JavaScript, which means that any valid JavaScript code is also valid TypeScript code.

01



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02

# MAIN FEATURES OF **TYPESCRIPT**

02

- **Static Typing:**

TypeScript provides static typing through type annotations, allowing developers to specify types for variables, function parameters

- **Interfaces:**

TypeScript supports interfaces, enabling developers to define custom types and enforce contracts in the code

- **Generics:**

Generics in TypeScript allow the creation of reusable components that work with various data types

- **Other Features:**

Typescript provide other features like: Type Aliases, Enums, Namespaces and Modules...



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03

# WHAT PROBLEMS CAN TYPESCRIPT SOLVE ?

03

- **Type Safety:**  
Catches errors during development.  
Ensures correct use of variables and functions.
- **Enhanced IDE Support:**  
Better autocomplete and error highlighting.  
Self- Documenting Code
- **Safe Refactoring:**  
Better autocomplete and error highlighting.  
Self- Documenting Code
- **Scalability and Maintenance:**  
Ideal for large projects and easier to maintain.



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04

# SIMPLE **TYPESCRIPT** CODE

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```
function add(x: number, y: number): number {  
  return x + y;  
}  
  
console.log(add(5, 3)); // 8
```



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05

# SOME RESSOURCES TO LEARN TYPESCRIPT

04

- **Official Documentation:**  
[www.typescriptlang.org](http://www.typescriptlang.org)
- **Youtube Channels:**  
@NetNinja  
@ElzeroWebSchool



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05

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