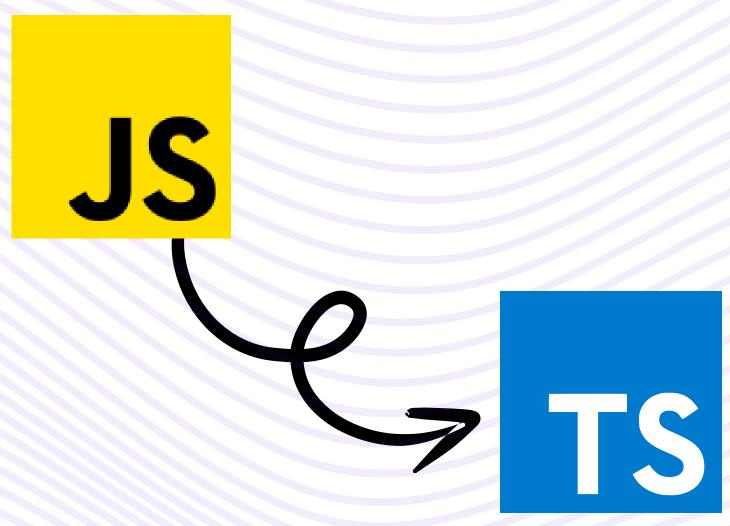
# FROM JAVASCRIPT TO TYPESCRIPT





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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.





### MAIN FEATURES OF TYPESCRIPT

#### 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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## WHAT PROBLEMS CAN TYPESCRIPT SOLVE?

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- 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.



### 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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## SOME RESSOURCES TO LEARN TYPESCRIPT

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- Official Documentation: www.typescriptlang.org
- Youtube Channels:

   @NetNinja
   @ElzeroWebSchool





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