# TYPESCRIPT AND IT'S IMPORTANCE

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# WHAT IS TYPESCRIPT

Typescript is a more advanced form of javascript.

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# WHY SHOULD WE USED IT?

TypeScript allow us to catch type errors at compile time rather than run time.

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# LET'S SEE AN EXAMPLE

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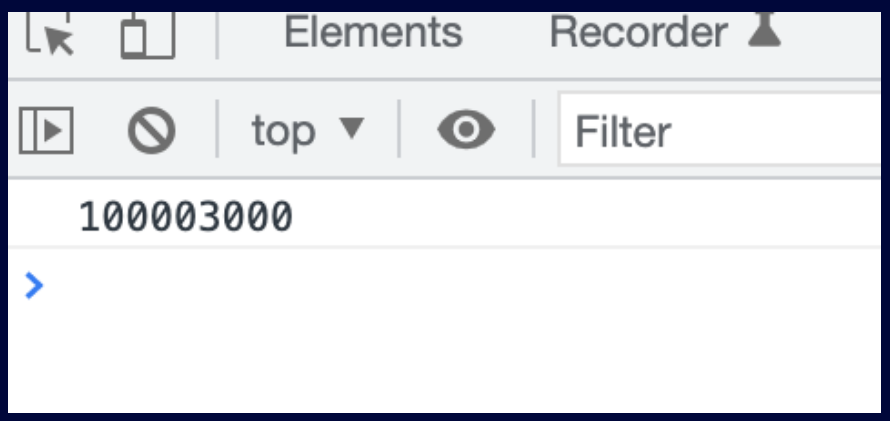
```
function monthlyBonusCalculation (x){
    let employeeSalary = 10000
    console.log(employeeSalary+x)
}

monthlyBonusCalculation(prompt("Please add amount"))
```

we have simple code which ask user to add amount
When we run this it will ask a number from user suppose we have enter 3000. We are expecting that output should be 13000 right let see the actual output

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the most thing is that javascript does not throw any error.

Here how typeScript can save us .

```
function monthlyBonusCalculation (x:number){
    let employeeSalary = 10000
    console.log(employeeSalary+x)
}

monthlyBonusCalculation(prompt("Please add amount"))
```

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As you can see VS code already started giving us error that something is wrong and we can not run program before we solve this.

# WHERE SHOULD WE USE IT?

We should always use typescript when there is a lot of structure in the program and a lot going on, such as multiple people contributing hundreds of thousands of lines of code.

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# MOST IMPORTANT FEATURE

The primary role of typescript is essentially the introduction of static typing to javascript.

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# HOW STATIC TYPE HELP

static typing eliminated so many various drawbacks, that's why static typing is very crucial.

First, it makes catching errors much simpler. In a dynamically typed language like javascript, almost all errors occur at runtime, which is undesirable because it requires us to first understand what is happening at runtime, which I think more difficult . However, typescript here greatly reduces the complexity of this process.

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# THANK YOU!

# WAS THIS HELPFUL TO YOU?

# SAVE THIS POST FOR LATER

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