

# Generic Functions

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**Brice Wilson**

@brice\_wilson [www.BriceWilson.net](http://www.BriceWilson.net)



# Demo



## Creating generic functions



# Demo



Applying type constraints to generic functions



# Demo



## Using generic function types



# Learn More About Function Types

## TypeScript: Getting Started

by Brice Wilson

TypeScript is a powerful, fun, and popular programming language used for building browser and NodeJS applications. This course will teach you all of the most important features of TypeScript, and quickly make you productive with the language.

```
14 function getInputValue(elementID: string): string | undefined {  
15  
16   const inputElement: HTMLInputElement = <HTMLInputElement>document.getElementById(elementID);  
17  
18   if (inputElement.value === '') {  
19     return undefined;  
20   }  
21   else {  
22     return inputElement.value;  
23   }  
24 }  
25  
26 function postScore(score: number, playerName: string = 'MultiMath Player'): void {  
27   const scoreElement: HTMLElement | null = document.getElementById('postedScores');  
28   scoreElement!.innerText = `${score} - ${playerName}`;  
29  
30   scoreElement!.addEventListener('click', startGame);  
31  
32   const logMessage = `message` => console.log(message);  
33 }
```

<https://app.pluralsight.com/library/courses/getting-started-typescript>



# Summary



**Generics are not just for classes**

**Type-safe versatility**

**Generic constraints increase practicality**

**Generic function types add flexibility**

