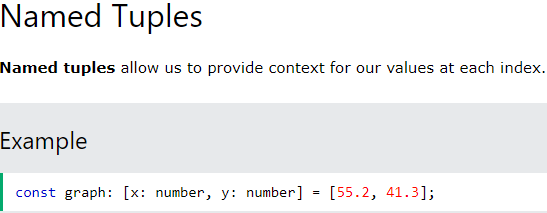
**What is TypeScript?**

TypeScript is a syntactic superset of JavaScript which adds **static typing**.

This basically means that TypeScript adds syntax on top of JavaScript, allowing developers to add **types**.

# 

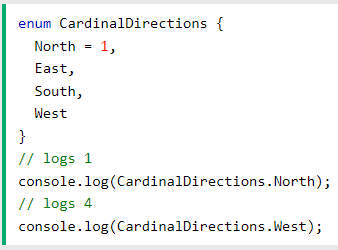
# **TypeScript Tuples:**

****

# **TypeScript Enums**

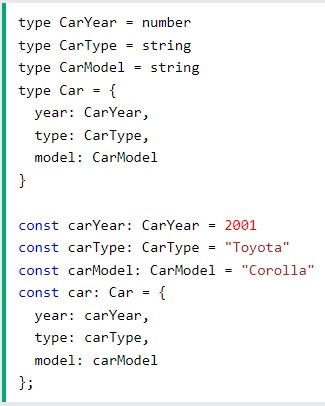
An **enum** is a special "class" that represents a group of constants (unchangeable variables).

Enums come in two flavors string and numeric. Lets start with numeric.



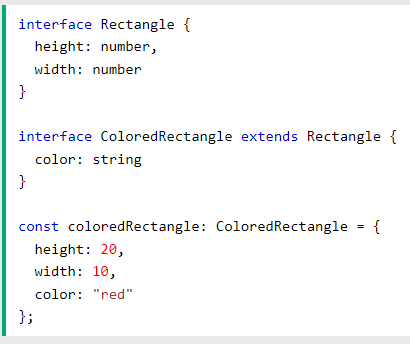
## Type Aliases

Type Aliases allow defining types with a custom name (an Alias).Type Aliases can be used for primitives like string or more complex types such as objects and arrays:



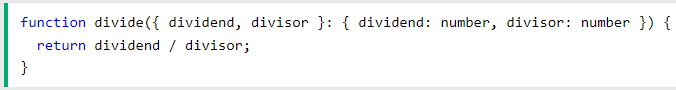
## Interfaces

## Interfaces are similar to type aliases, except they ****only**** apply to object types.



## Named Parameters

Typing named parameters follows the same pattern as typing normal parameters.



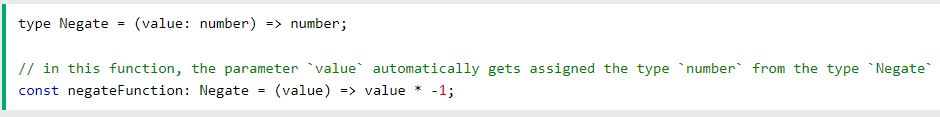
## Rest Parameters

Rest parameters can be typed like normal parameters, but the type must be an array as rest parameters are always arrays.

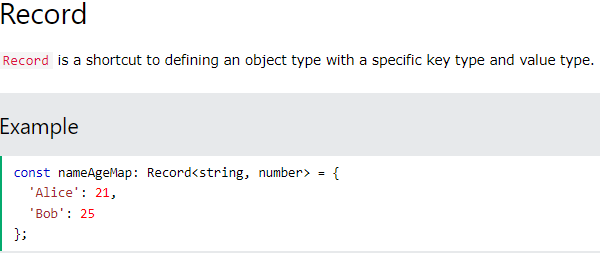
## 

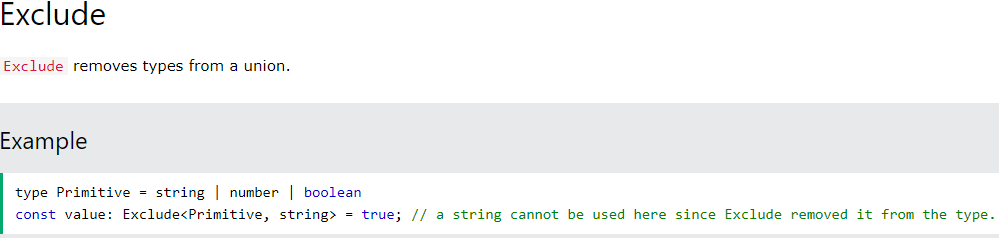
## Type Alias

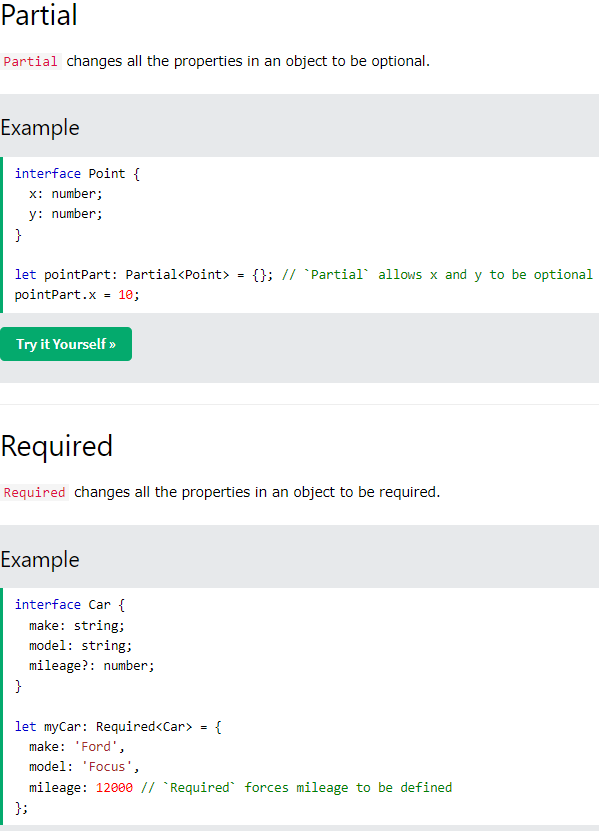
Function types can be specified separately from functions with type aliases.



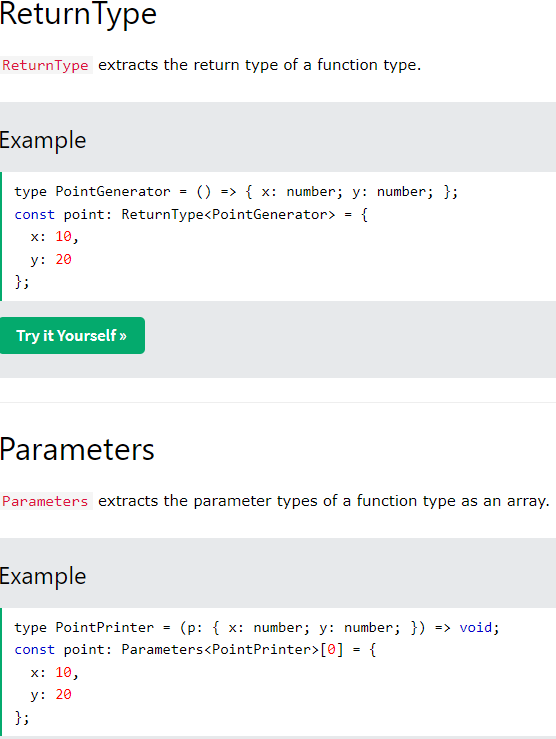
# **TypeScript Utility Types**











# **TypeScript Keyof**

## keyof with explicit keys

When used on an object type with explicit keys, keyof creates a union type with those keys.

