Creating generic classes

We are going to learn how to create a generic class in this lesson.

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Generic class syntax

The syntax for a generic class is similar to that of a generic interface:

```
class ClassName<T1, T2, ...> {
   ...
}
```

The members of the class can reference the types passed into it.

Generic class example

Let's implement a generic list class where the type for the list items is passed into the class as a generic parameter. The start of our implementation is below:



Continue the implementation by adding a strongly typed [1] mathed to the

class. It should have a single parameter for the list item to be added. The implementation should add the new list item to the items array.



Create an instance of this generic class below the class definition in the code widget above:

```
const numberList = new List<number>();
```

So, we have created a class that will manage a list of numbers.

Add a number to numberList:

```
numberList.add(1);
```

Try adding a string to numberList:

```
numberList.add("2");
```

Do we receive a type error?



Wrap up

Using generic classes allows classes to be created for general situations that can be applied to a specific situation by supplying types as parameters.

More information can be found on generic classes in the TypeScript handbook.

Well done, we are now comfortable creating our own generic types!

Next up is a quiz to test what we have learned.