

# Using Multiple types to declare an Upper Bound

You can use multiple types to set a more restrictive upper bound, with the use of an ampersand between types.

The conditions require a type argument, to implement all interfaces declared, and to be a subtype of any class specified.

You can extend only one class at most, and zero to many interfaces.

You use extends for either a class or an interface or both.

If you do extend a class as well as an interface or two, the class must be the first type listed.

```
interface InterfaceA {}  
interface InterfaceB {}  
abstract class AbstractClassA {}
```

Class must be listed first

Interface(s) follow class

```
public class GenericClass<T extends AbstractClassA & InterfaceA & InterfaceB> {}
```

Extends for class & interface

& means any type must be subtype of ALL