

Programming Language Concepts Using C and C++/Parameterized Types

Achieving reuse through inheritance may at times lead to an explosion in the number of classes. Consider defining stacks of different types. Using the inheritance approach, we would start out with defining an abstract class containing the attributes common to all stacks and get people to derive their specialized stack classes from this class. Problem with this approach is—since operation signatures are type dependent—not much can be reused.

```
class AbstractStack {
    virtual bool empty(void) const = 0;
} // end of class AbstractStack

class StdntStk : public AbstractStack {
public:
    bool peek(Student&) const;
    bool pop(Student&);
    void push(Student);
    virtual bool empty(void) const;
    ...
private:
    ...
} // end of class StdntStk
```

A stack of Shape objects using a similar implementation technique would mean all occurrences of Student must be replaced with Shape, which leaves very little room for reuse. Way out of this is defining a stack of something that can be interpreted as a stack of anything. In C/C++, that something is `void*`; in Java and C#, it is the root class `Object`.

Example: Genericness in pre-1.5 Java.

```
public interface IStack {
    public Object peek() throws StackEmpty;
    public Object pop() throws StackEmpty;
    public void push(Object newItem);
    public boolean isEmpty();
} // end of interface IStack

public class GenericStack implements IStack {
    public Object peek() throws StackEmpty { ... }
    public Object pop() throws StackEmpty { ... }
    public void push(Object newItem) { ... }
    public boolean isEmpty() { ... }
    ...
} // end of class GenericStack
```

In this pre-1.5 Java implementation we can create and use stacks of various types without having to rewrite the functionality in different classes. This solution has a serious flaw, though. Users of `GenericStack` are responsible for correct use of the class. Errors such as pushing a Shape onto a stack of Students are tolerated by the compiler and cannot be caught before run-time. After all, both classes are derived from `Object` and their objects are in that aspect alike.

So we need to take another step for achieving reuse without sacrificing type safety. The answer is provided by introducing a new feature into the language: *parameterized types*. Using parameterized types we can get higher levels of reuse by collapsing a base class and a number of derived classes into a single class without compromising type safety. Instead of having an abstract class and various specialized classes deriving from this abstract class, we now have a single parameterized class.

Example: Generic classes in Java.

Programming Language Concepts

**Franklyn Turbak, David Gifford, Mark A.
Sheldon**



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various language constructs the examination of the design choices for these constructs in some of the most common languages and critical comparison of the design alternatives In addition Sebesta strives to prepare the reader for the study of compiler design by providing an in depth discussion of programming language structures presenting a formal method of describing syntax and introducing approaches to lexical and syntactic analysis *The Interpretation of Object-Oriented Programming Languages* Iain Craig, 2012-12-06 Object oriented languages are probably the most important development in computing for many years They allow us to describe and to model the physical as well as more abstract worlds They allow us to provide the computational entities we describe with a dynamics that is encapsulated thus leading to a more distributed notion of state a notion which inter alia makes programming and analysis somewhat more tractable Unfortunately if one wants to understand the concepts that are currently employed in object oriented languages one must refer to the proceedings of conferences such as OOPSLA or EGOOP These proceedings might be hard to obtain or obscure in any case without a background in the area the reader will almost certainly encounter concepts which will send them back to the literature The aim of this book is to provide in one place an interpretation of the primary concepts in object oriented programming languages In some cases for example multiple inheritance there is no single interpretation that is accepted by all in such cases the different approaches are explained An attempt has been made to be as comprehensive as possible but certain concepts have been omitted for the reason that they are not often encountered or they have fallen from grace The concept of the instantiable module appears to be one example of this ,

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