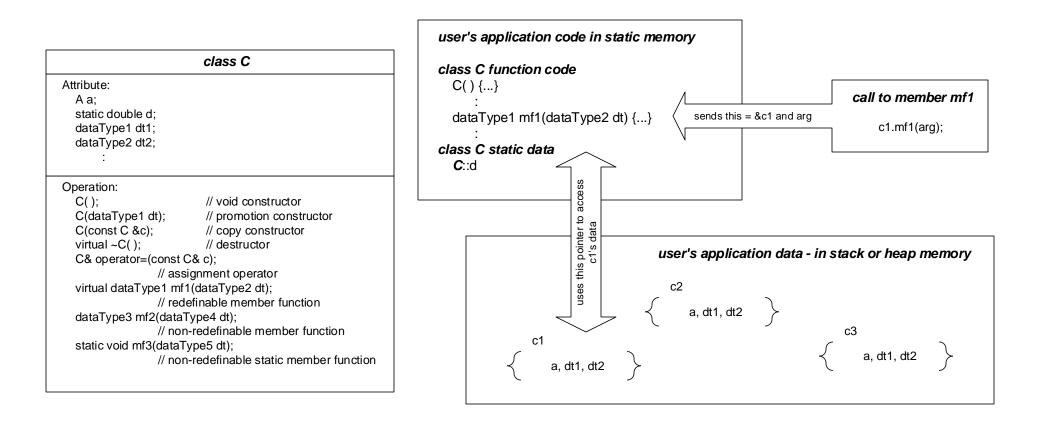
Class Diagram - Class Relationships



- C provides a set of member functions which operate on its data. Only these member functions are given access to that data.
- This is a very powerful property of the object oriented design approach. It means that member data will always be modified in consistent and meaningful ways.
- When several objects of the class are defined by a user's application code, class C's member functions need a way to determine which of the several objects should be acted on for any given invocation.
 - to handle this C++ silently passes the address of the calling object, in this case the address of c1, from the user's code to the class C member function invoked, in this case mf1(...).
 - this address has the identifier "this", so you will occasionally see "this" used in the code bodies of member functions
 - mf1's code uses "this" to access c1's data to perform its operations before returning control to the user's application code
- Static member functions, like mf3, may only access static member data like d. A client calls a static member function using the class name rather than an object's name. The client may invoke C::mf3(arg) even if no C objects currently exist.