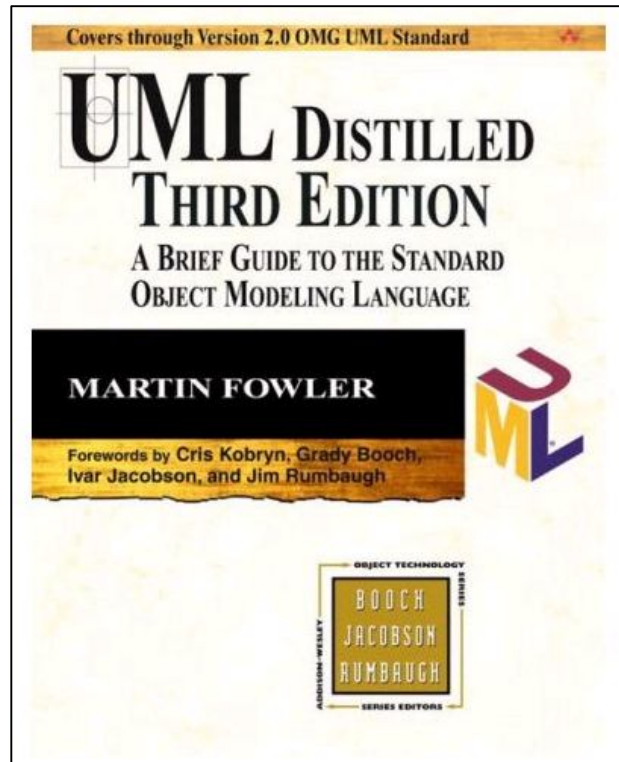




Unified Modeling Language (UML)



Good tutorial on object-orientation development process and short (about 200 pages) introduction to the UML.

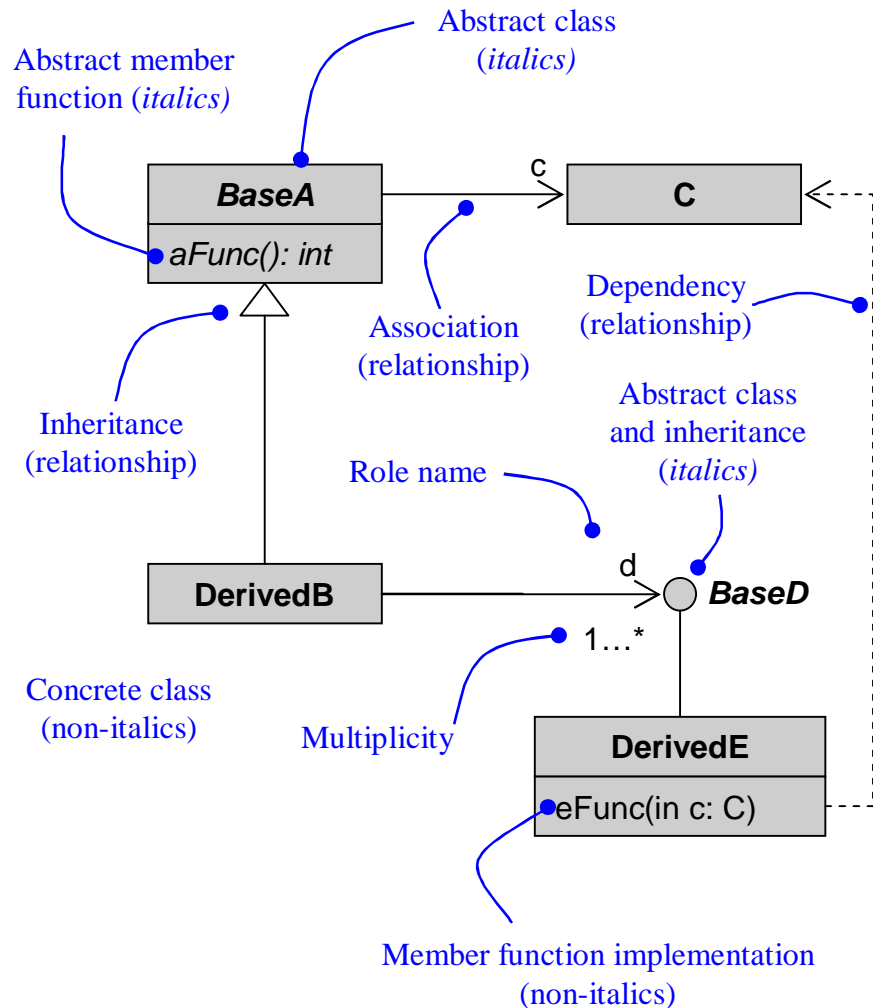
Unified Modeling Language

- Graphical language for designing, documenting and communicating designs object-oriented software
- Standardized by the Object Management Group (OMG) and backed by a large group of software companies
- Allows the specification and description of object-oriented software at various levels of detail
- Supported by many different CASE tools for
 - Designing OO software
 - Documenting OO software
 - Reverse engineering OO software
 - Creating skeleton code for OO software
 - Refactoring OO software



Overview of Basic UML Notation for Object Orientation (OO)

Simple UML Class Diagram



Compatible C++ declarations

```
class BaseA {
public:
    virtual ~BaseA() {}
    virtual int aFunc() const = 0;
    virtual C& c() = 0;
    ...
};

class DerivedB : public BaseA {
public:
    ...
private:
    std::vector<BaseD*> d_;
};

class C { ... };

class BaseD { ... };

class DerivedE : public BaseD {
public:
    void eFunc( const C& c );
    ...
};
```