Single Inheritance

Base class (Root) "Most Indirect Base Class"

Derived class

Derived of C

Descendants of A

client

obj

obj

InfC1

InfC1

InfC1

InfC1

A

B

C

Derive class

A

 Derived
\[ A :: \text{ Func}() \]
\[ B :: \text{ Func}() \]
\[ \text{ void C :: Func() } \]
\[ \text{ } \]
derived as "flower"?

no

derived:: derived (chry));

base:: base (C)
called

base:: base(c)

base:: base (char, fnme C3)

// Not used!

Derived:: Derived (char name C3)

Still calls

Default base

Automatically

derived obj ("filename")

link

derived obj ("filename")

3

3
class Derived : Public Base

Derived (char C[]);

default:

protected:

node * root;

const int size;

Initialisation list

app deriving : derived (: size (100), root(p));
\[ \text{root}(\phi), \text{size}(C) = \text{base}(\text{name}) \]

\[ \Downarrow \]

\[ \text{derived} \Leftrightarrow \text{derived (character C)} \]
void f(int x)
{
    int i = 0;
    for (int k = 0; k < x; k++)
    {
        if (x > 0)
        {
            int j = x;
            int y = f(j);
            init(k);
            Timing allocated memory
            i = 100;
        }
    }
}
account object 3 ("name", 100.0)
account object 3 ("name")
account object ()

account (count chain "name", float=\(\emptyset\))
Assets

Is this buyable?

Add Wrapper for all equity value

function to equity

protected:

Assets

Equity to public functions

buy
Ask: buy! (oh!)

Cluck

Ask: buy!

Ask: sell!
Virtual Inheritance

class Account {
    class savings : virtual public Account;
    class equity : virtual public Account;
    class Assets : public savings, public equity;
}
Dynamic Binding

Attributes:
- Color
- Width
- Style

Drawing:
- Line
- Area
- Text
- Images

pt = new Circle;

Attribute

pt - draw

Artist, brush, stroke