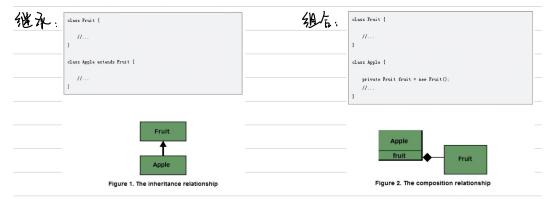
## 13 面向对象编程V:可修改性.

- 一. 可低改性.
- 1.1独义) 可修改性:对已有家观的修改.
- 2.可扩展性.对新的家观的扩展.
- 3.灵治性,对亲观的动态配置.

## 二继承和组合的选择

• 组合和继承都允许你在新的类中设置子对象(subobject),组合是显式地这样做的,而继承则是隐式的。



- 组合技术通常用于你想要在新类中使用现有类的功能而非它的接口的情形。即,你在新类中嵌入某个对象,借其实现你所需要的功能,但新类的用户看到的只是你为新类所定义的接口,而非嵌入对象的接口。为取得此效果,你需要在新类中嵌入一个 private 的现有类的对象。
- 有时,允许类的用户直接访问新类中的组合成份是极具意义的;也就是说,将成员对象声明为 public。如果成员对象自身都实现了具体实现的隐藏,那么这种做法就是安全的。当用户能够了解到你在组装一组部件时,会使得端口更加易于理解。

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<pre>public class Animal {    public Animal() {       System.out.println("Making an Animal");    } }</pre>	Code from another class says new Hippo () and the Hippo() constructor goes into a stack frame at the top of the stack.	Hippo() invokes the superclass constructor which pushes the Animal() constructor onto the top of the stack.	3 Animal() invokes the superclass constructor which pushes the Object() constructor onto the top of the stack, since Object is the superclass of Animal.	Object() complet and its stack from is popped off the stack, Execution, on back to the Anim constructor, and picks up at the lif following Animal's call to its supercl constructor
<pre>public class Hippo extends Animal {   public Hippo() {     System.out.println("Making a Hippo");   } }</pre>	Hippo()	Animal() Hippo()	Object() Animal() Hippo()	Animal() Hippo()
<pre>public class TestHippo {   public static void main (String[] args) {     System.out.println("Starting");     Hippo h = new Hippo();   } }</pre>				
带继承的初始化:				
1. Access Main(), load base class, Load until the	root base class			
2. Static Initialization in the root base class then t so on	the next derived o	class, and		
3. All the instance variable(primitives and the obj 0.0 false null)	ject reference are	e set to 0 or		
4. The base-class constructor will be called				
5. The instance variables are initialized in textual	order			
6. The rest of the body of the constructor is exec	uted			
• 事实上,一个类的初始化包括3个步骤:				

- 加载(Loading),由类加载器执行,查找字节码,并创建一个Class 对象(只是创建);
- 链接(Linking),验证字节码,为静态域分配存储空间(只是分配,并不初始化该存储空间),解析该类创建所需要的对其它类的应用;
- 初始化(Initialization),<u>首先执行静态初始化块static{}</u>,初始化静态变量,执行静态方法(如构造方法)。

类量在编译阶段会存λ调用它约类约类量池中,本质上没有直接引用到定义核类量约类, 因此不会触发定义类量的类的初始化.

Example:					
class StaticBlock {	class Const{				
static final int c = 3;	public static final String NAME = "我是常量";				
static final int d;	static{				
	System.out.println("初始化Const类");				
static int e = 5;	System Salp man ( 1994) 1995 No. 27,				
static {					
d = 5; e = 10;	}				
System.out.println("Initializing");					
) Obsta Blank () (	public class FinalTest{				
StaticBlock() {  System.out.println("Building");	public static void main(String[] args){				
}	System.out.println(Const.NAME);				
	}				
authlia alaas Chatis DisaliTest (	}				
<pre>public class StaticBlockTest {     public static void main(String[] args) {</pre>	′ 病出。				
System.out.println(StaticBlock.c);					
System.out.println(StaticBlock.d);	秋是壽量.				
System.out.println(StaticBlock.e);					
}	class Const{				
掘出:	static(				
	System.out.println("初始化Const类");				
3					
Initializing	1				
5	ſ				
10					
10	public class ArrayTest(				
	public static void main(String[] args){				
	Const[] con = new Const[5];				
	}				
	}				
	无输出.				