

MICROOH 麦可网

# Android-从程序员到架构师之路

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A08\_d

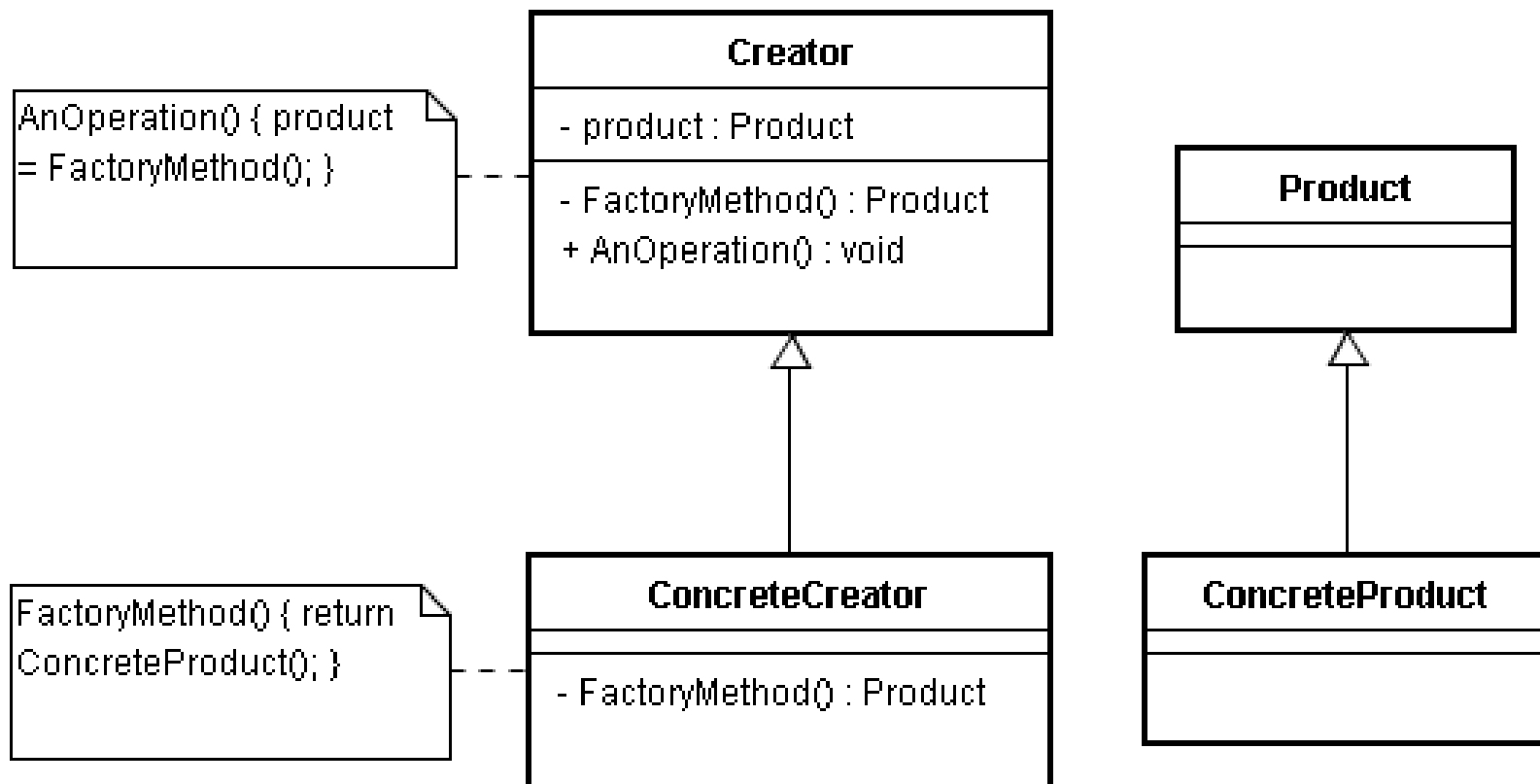
# 简介设计模式(d)

By 高煥堂

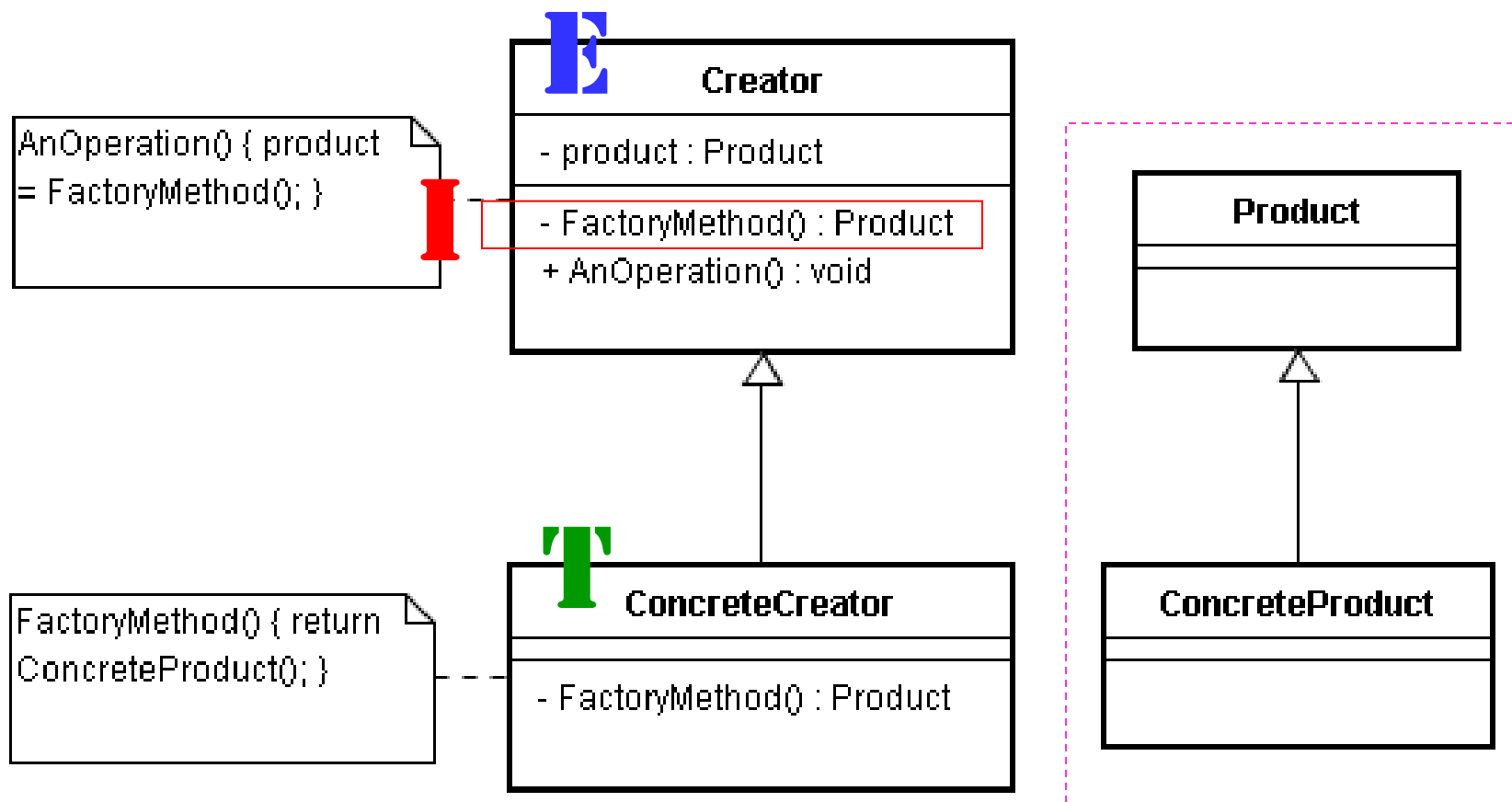
## 7、GoF的 Factory Method模式

# Factory Method模式

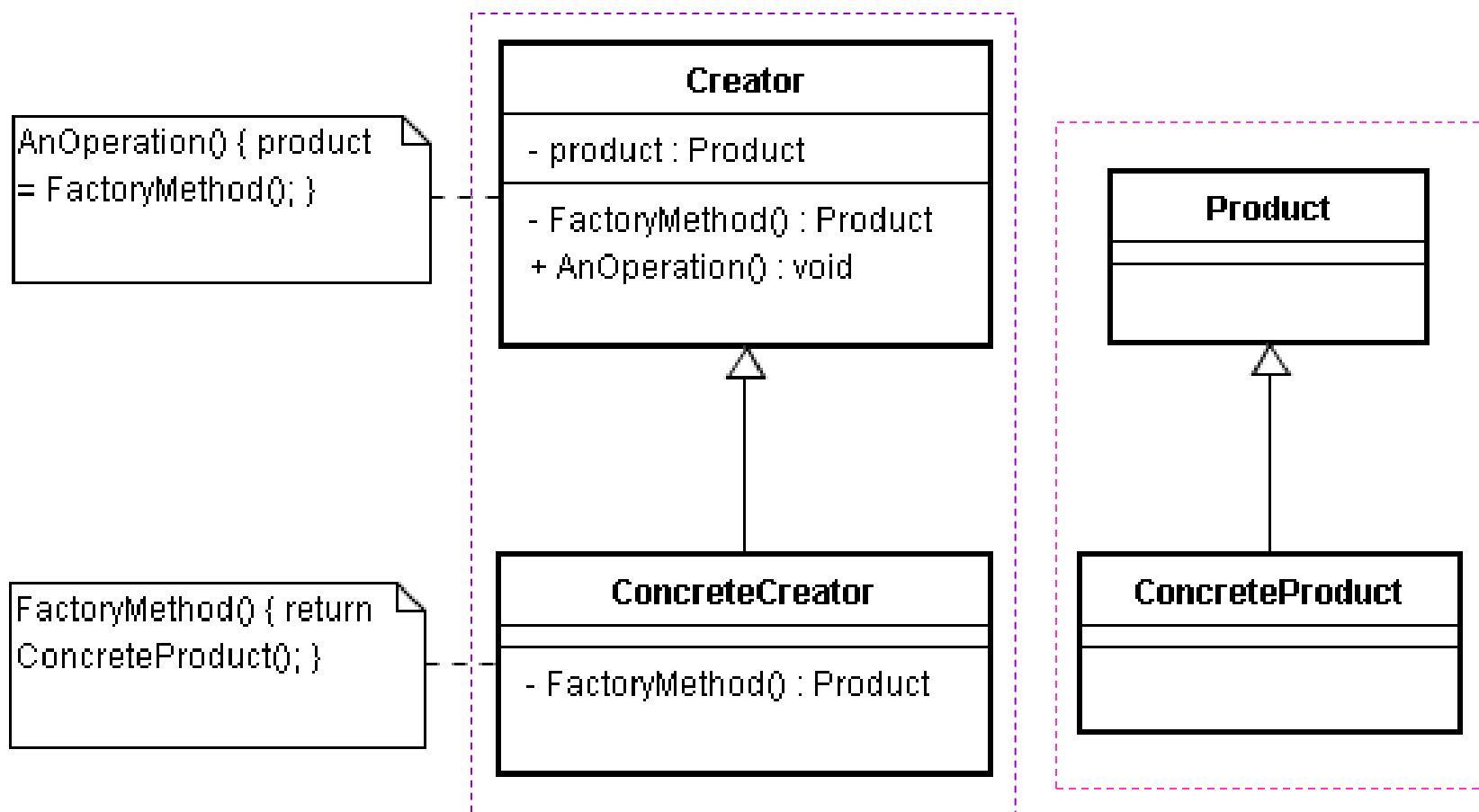
- 誰來創建<T>的對象呢？
- 例如，剛才的Template Method模式內含一個EIT造形，那麼，請問：誰來創建該<T>的對象呢？
- Factory Method模式就是一種常用的方案。



GoF的FM模式

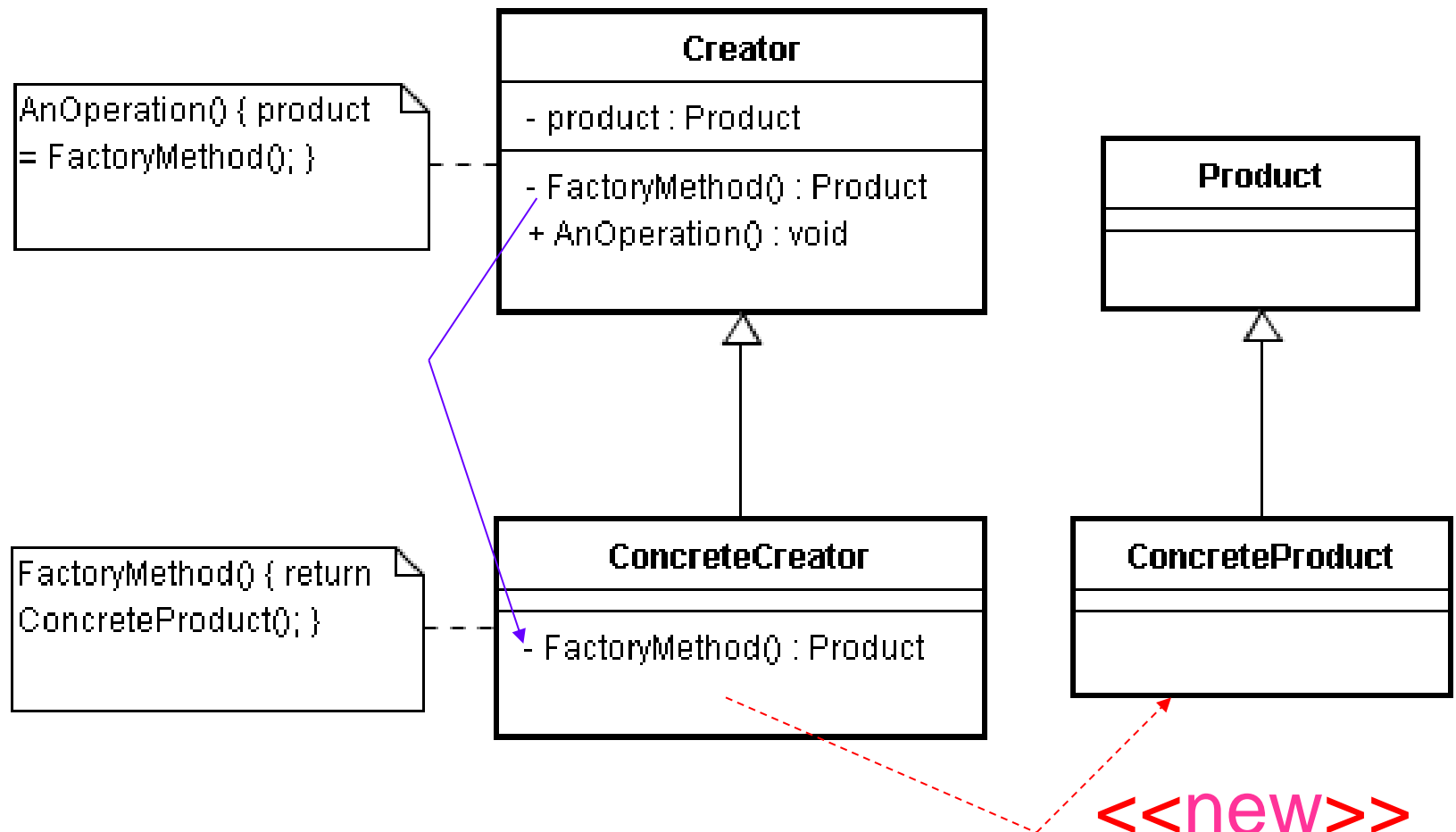


EIT造形

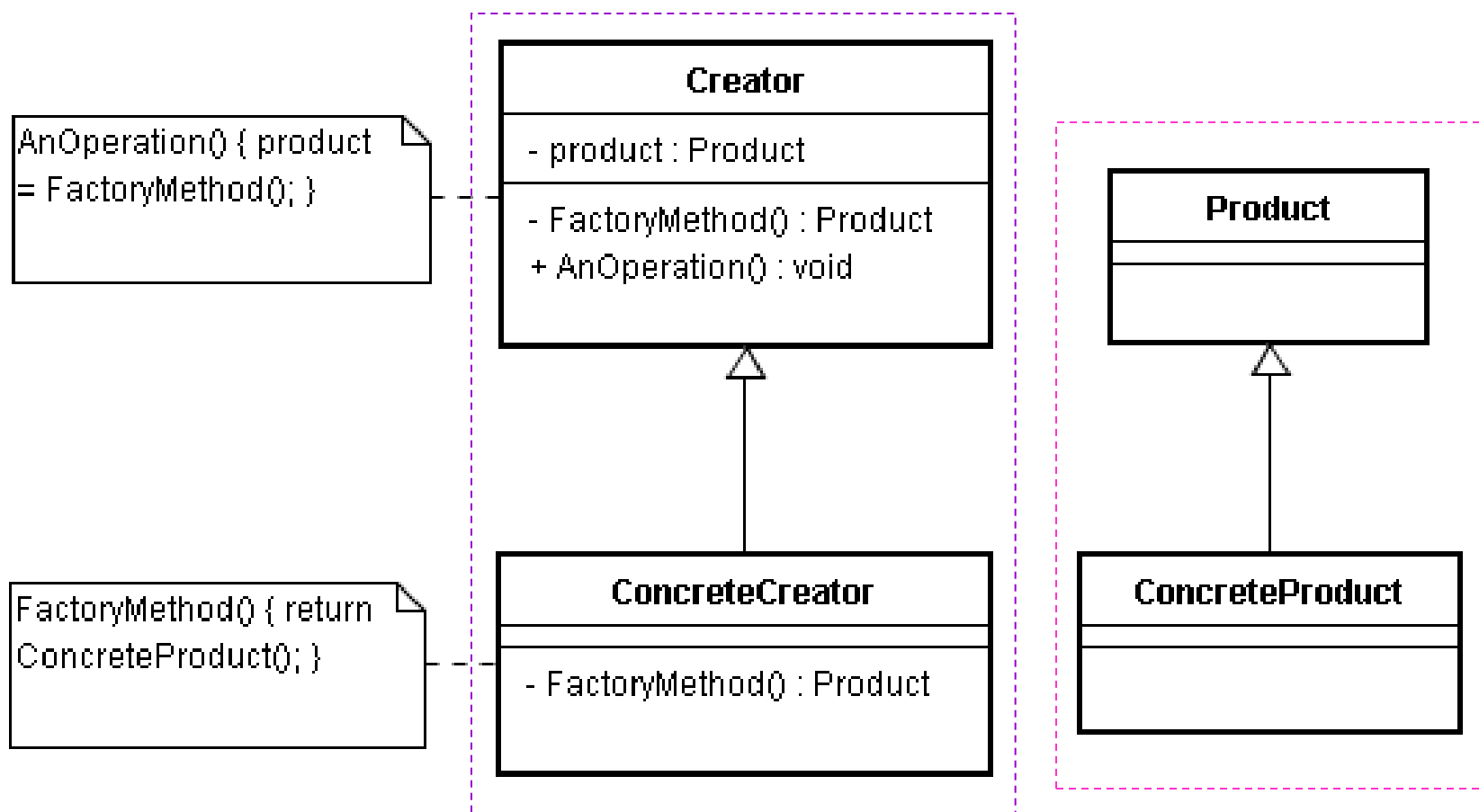


EIT造形

EIT造形





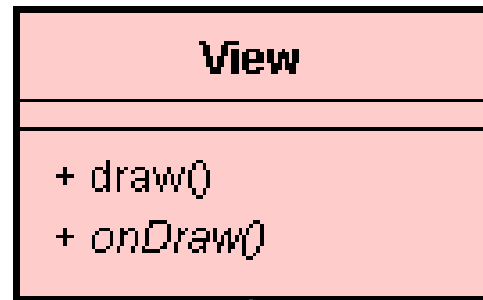


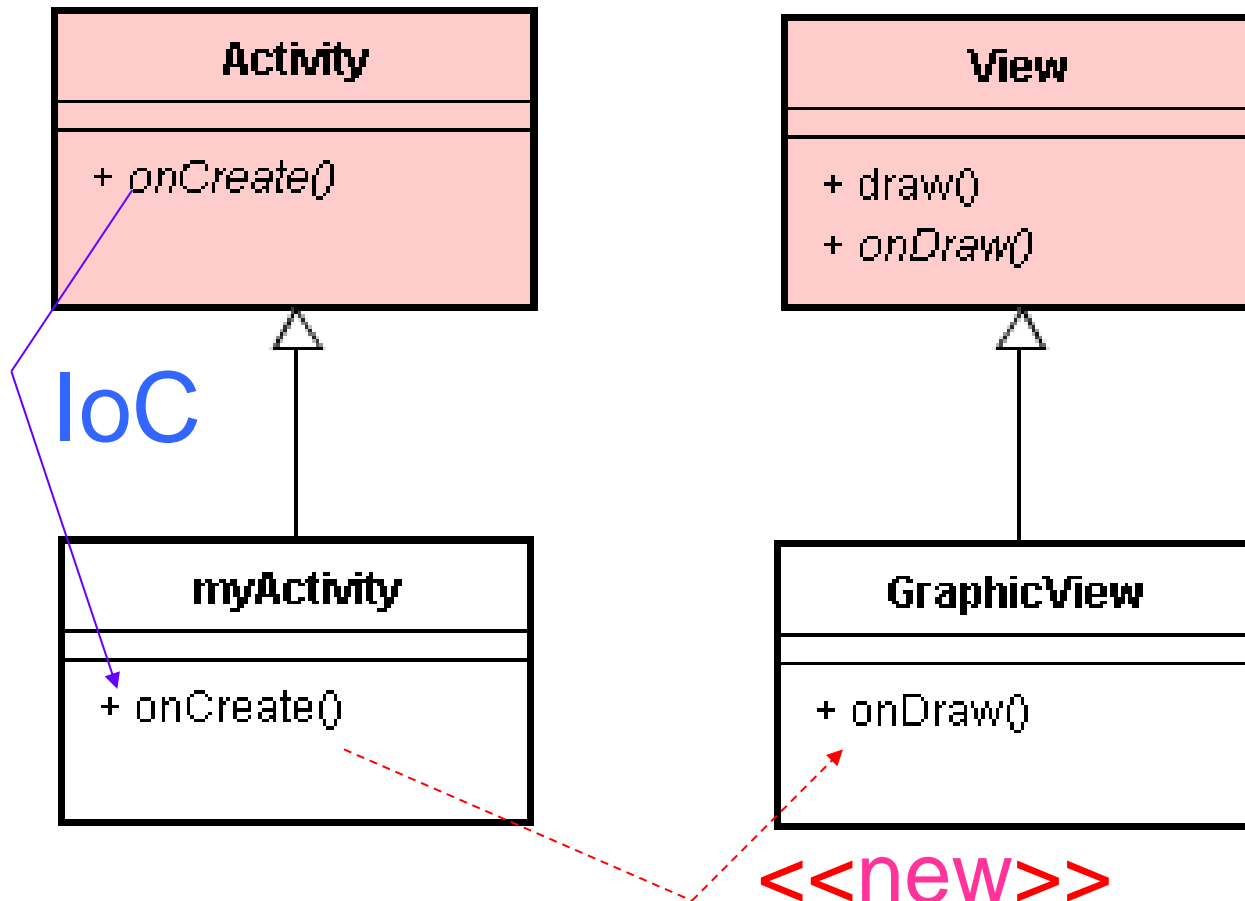
工廠(Factory)  
EIT

產品(Product)  
EIT

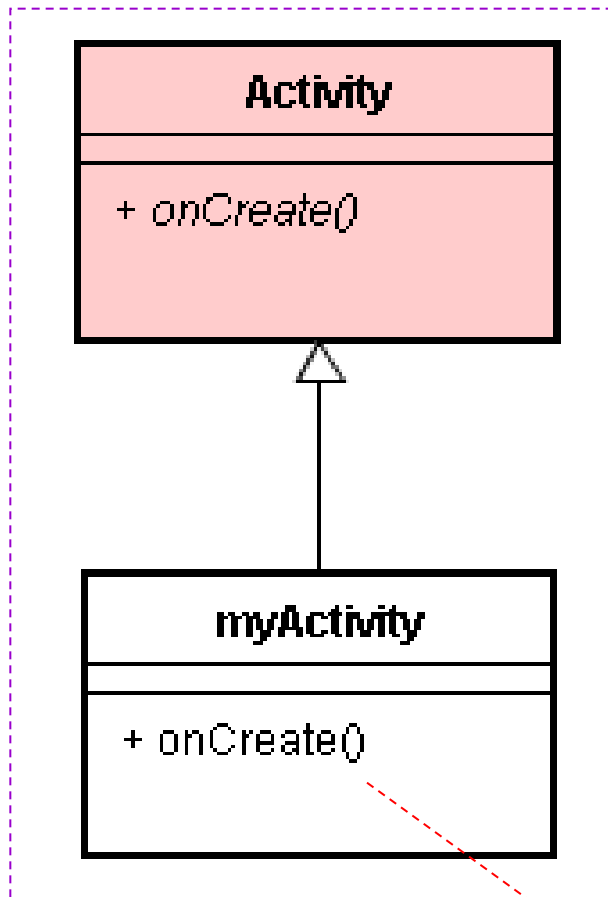
## 8、范例：Android + FM(工厂)模式

- 在Android框架里，处处可见Factory Method模式。例如，Activity、Service等抽象类别里都定义了onCreate()函数，它就是一个典型的FactoryMethod函数。

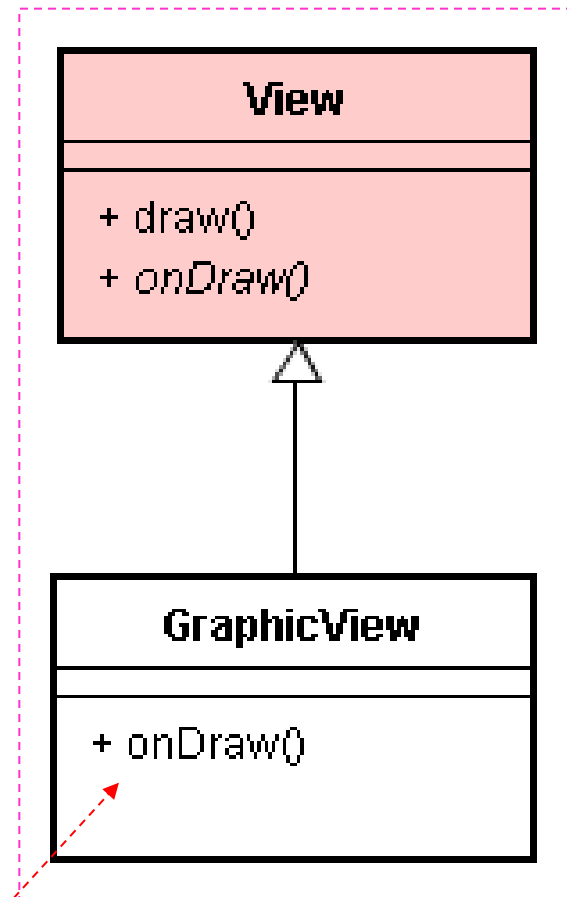




## 工廠EIT



## 產品EIT



<<new>>

```
// GraphicView.java
```

```
// .....
```

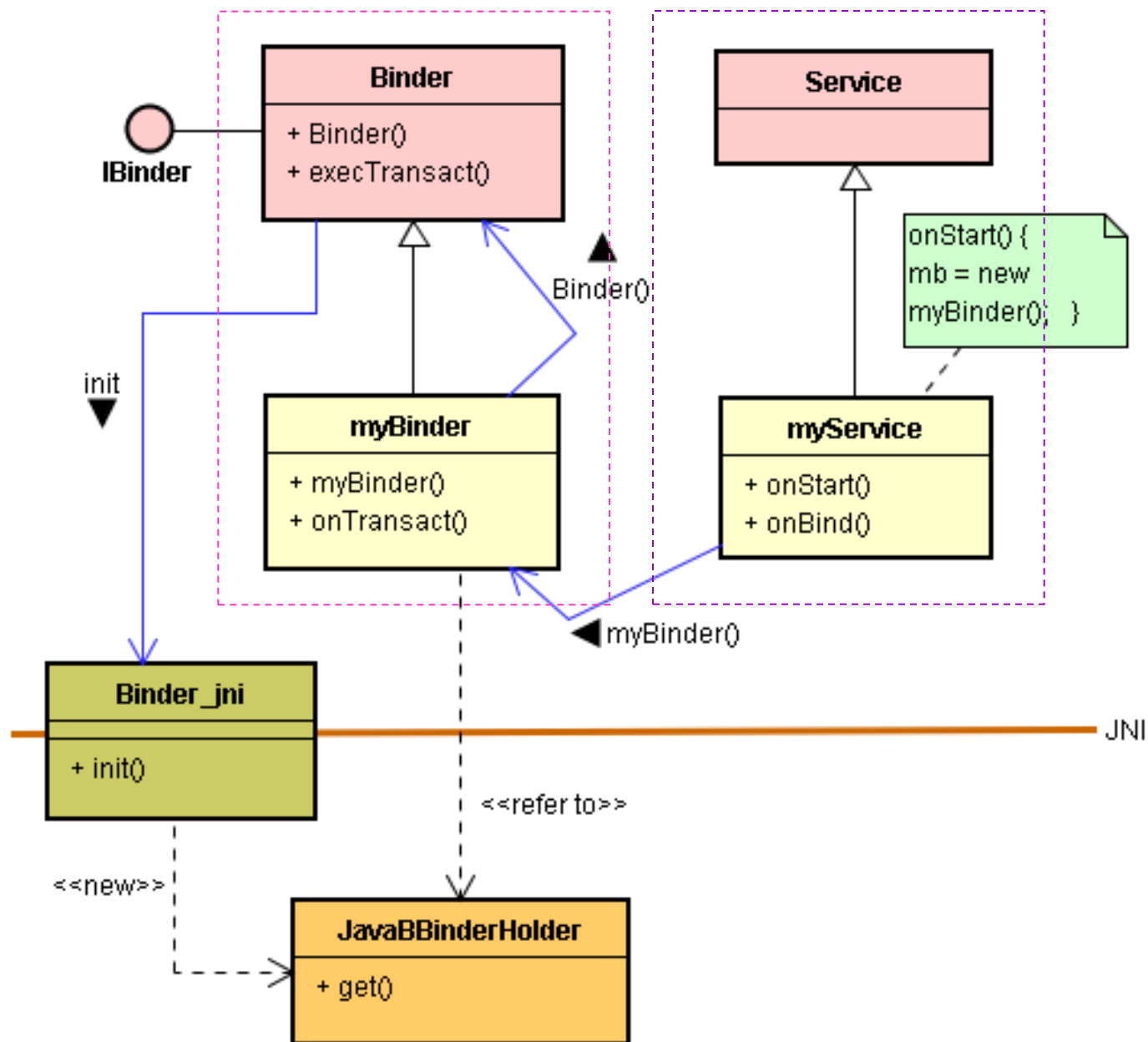
```
public class GraphicView extends View{  
    private Paint paint= new Paint();  
    GraphicView(Context ctx) {    super(ctx);    }  
    @Override protected void onDraw(Canvas canvas) {  
        int line_x = 10;  int line_y = 50;  
        canvas.drawColor(Color.WHITE);  
        paint.setColor(Color.GRAY);  paint.setStrokeWidth(3);  
        canvas.drawLine(line_x, line_y, line_x+120, line_y, paint);  
        paint.setColor(Color.BLACK);  
        paint.setStrokeWidth(2);  
        canvas.drawText("這是繪圖區", line_x, line_y + 50, paint);  
        int pos = 70;  paint.setColor(Color.RED);  
        canvas.drawRect(pos-5, line_y - 5, pos+5, line_y + 5, paint);  
        paint.setColor(Color.YELLOW);  
        canvas.drawRect(pos-3, line_y - 3, pos+3, line_y + 3, paint);  
    }  
}
```

```
// myActivity.java
// .....
public class ac01 extends Activity {
    private GraphicView gv = null;

    @Override
    public void onCreate( Bundle savedInstanceState ) {
        super.onCreate(savedInstanceState);
        gv = new GraphicView(this);
        setContentView(gv);
    }
}
```



Android里处处可见  
FM模式的应用





~ Continued ~