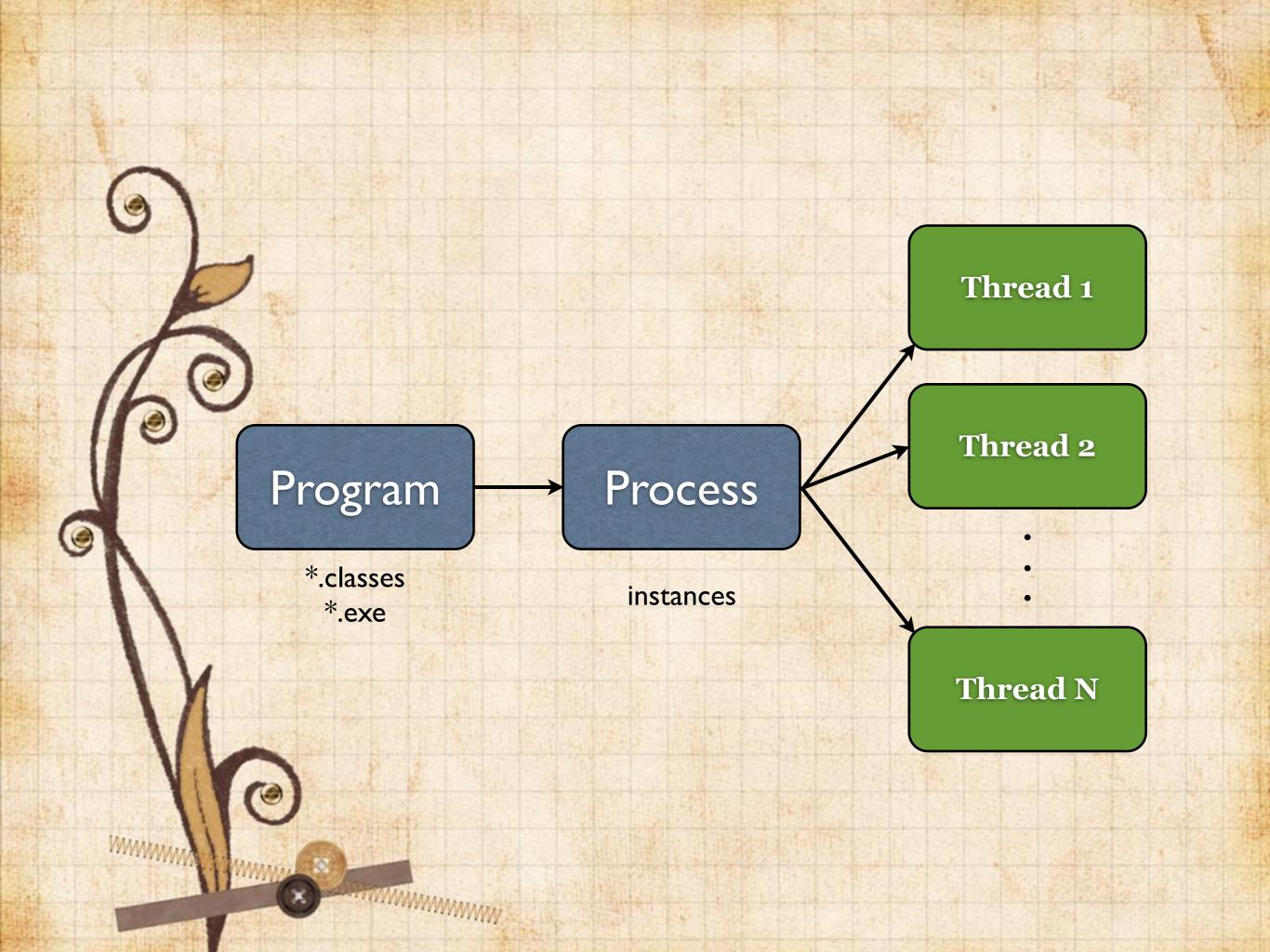


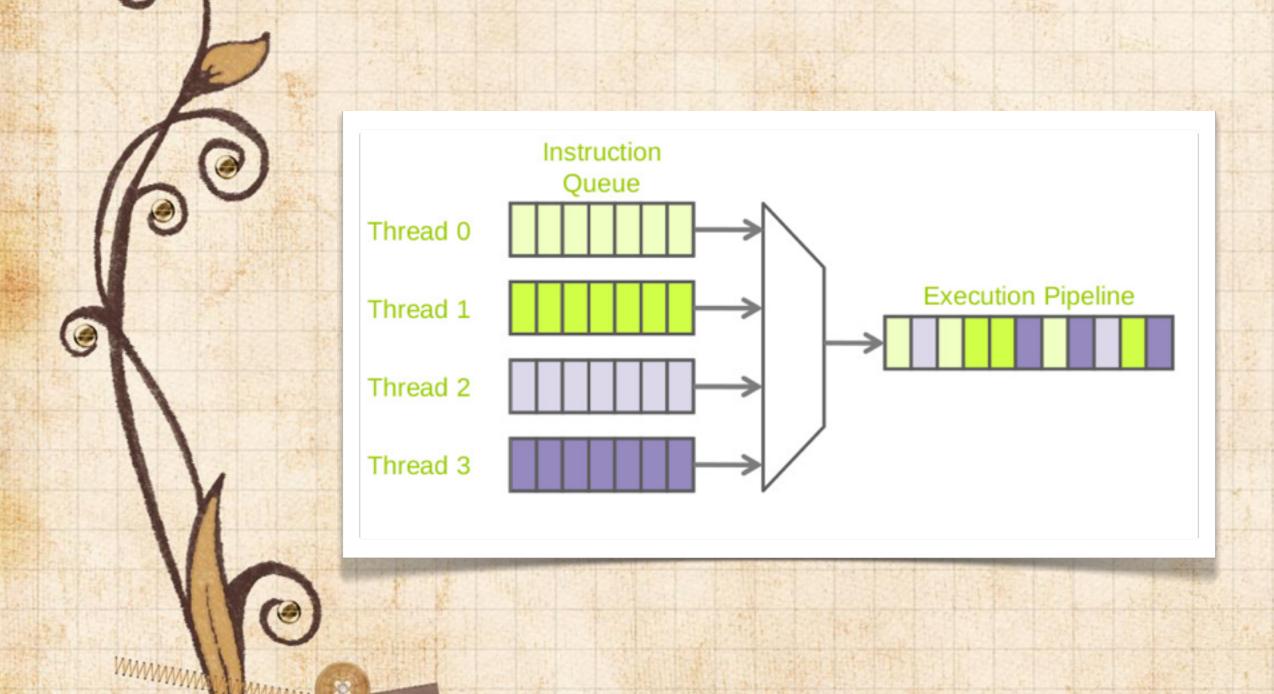
Java 物件導向程式語言 多執行緒程式設計

> 講師: 林彦宏 lyhcode@gmail.com

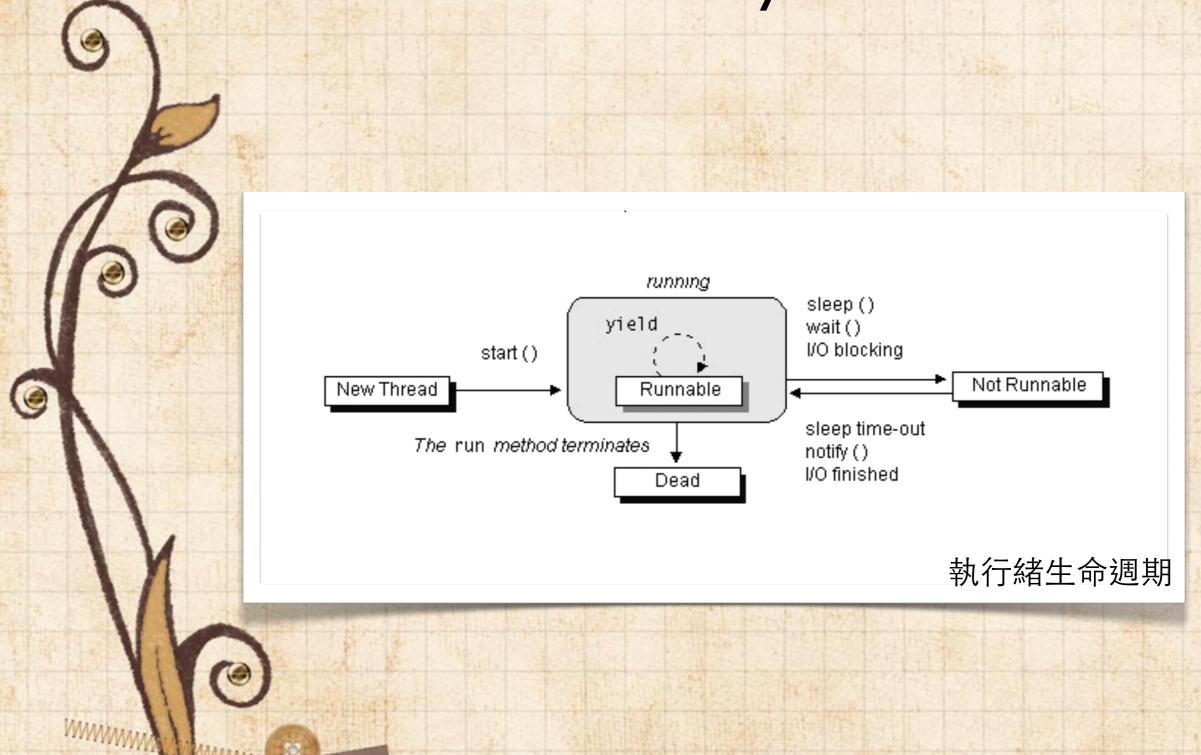




多執行緒處理佇列

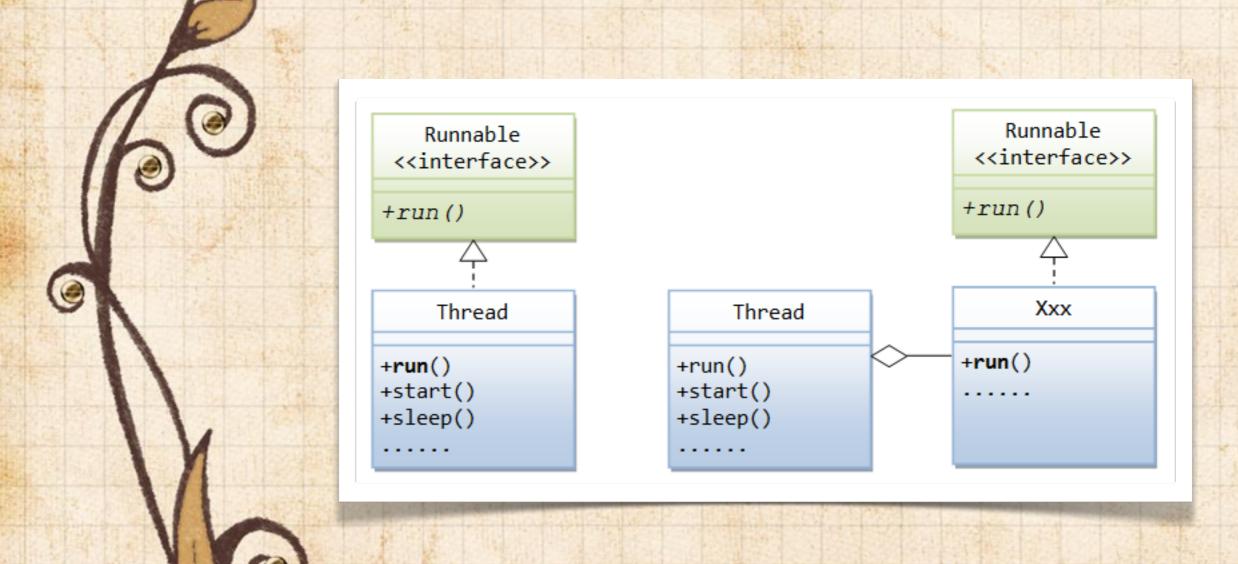






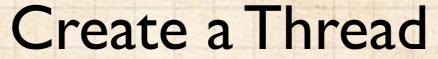
ATTIMIN MINING

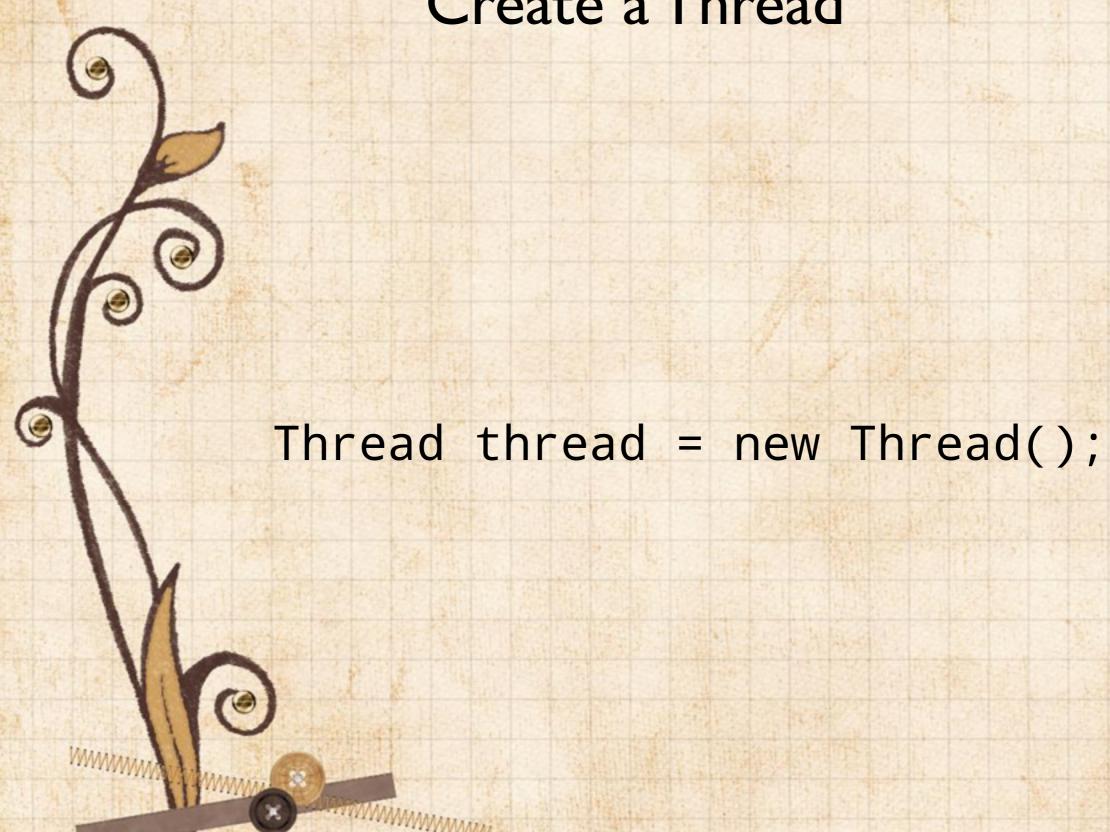
Thread and Runnable



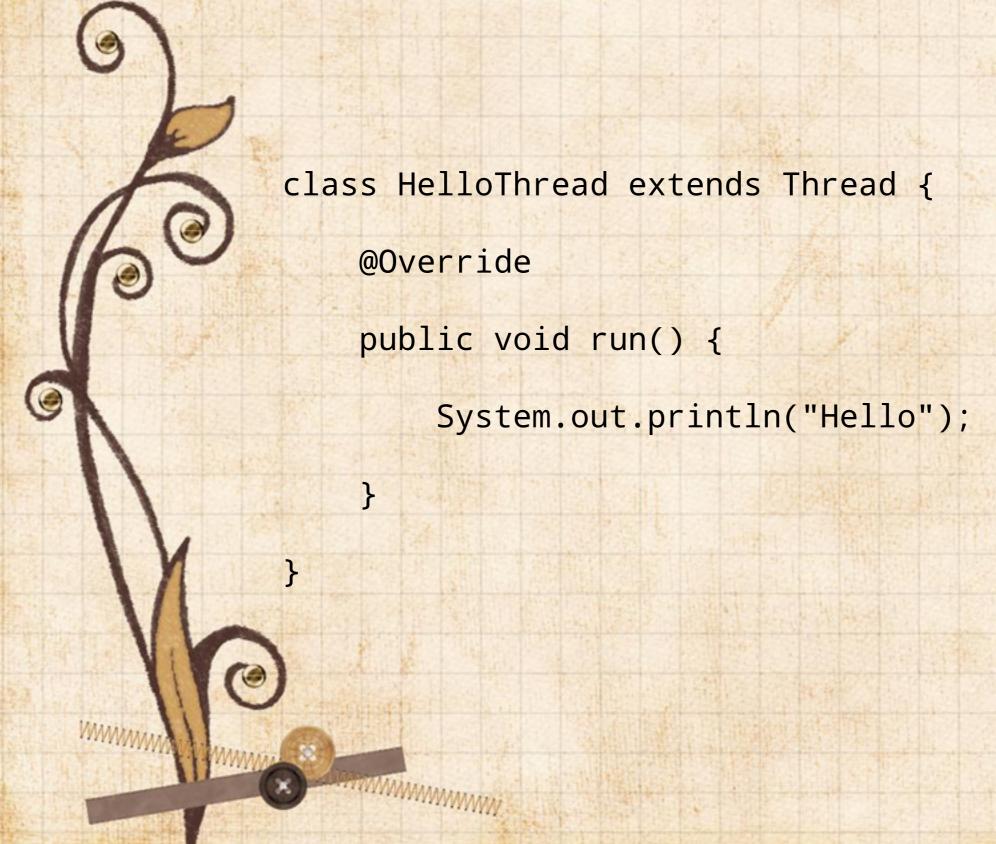
WWWWWWWWWWW

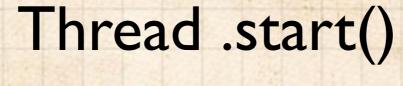
WWWWW

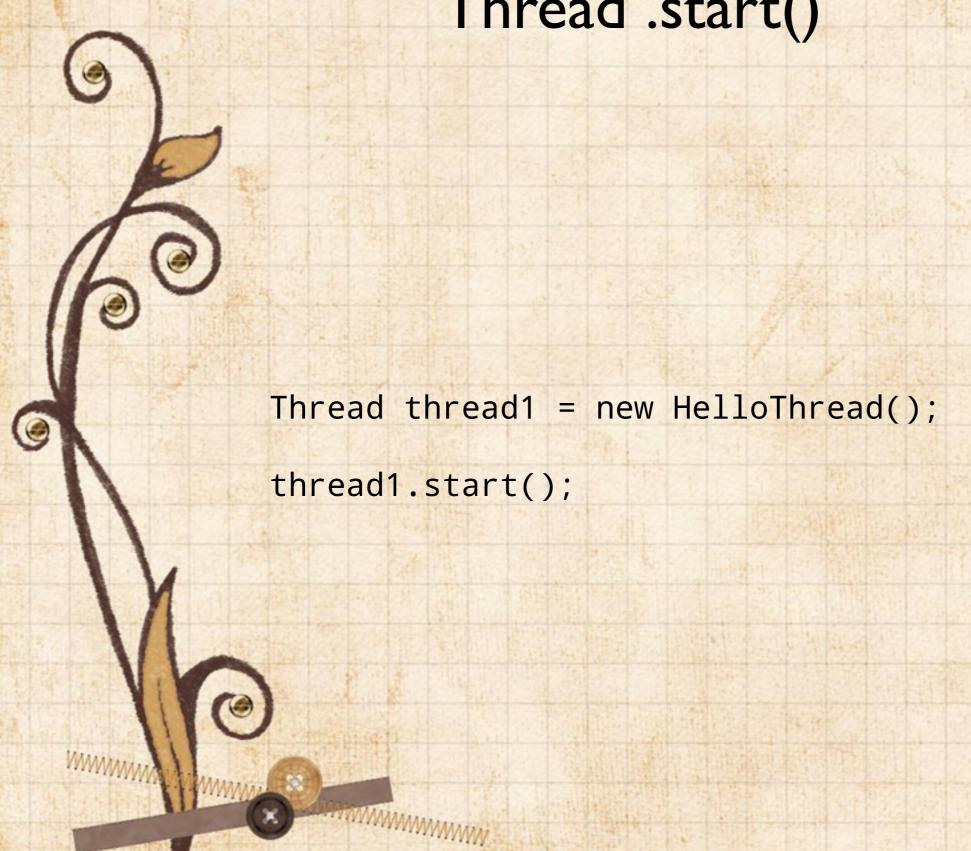




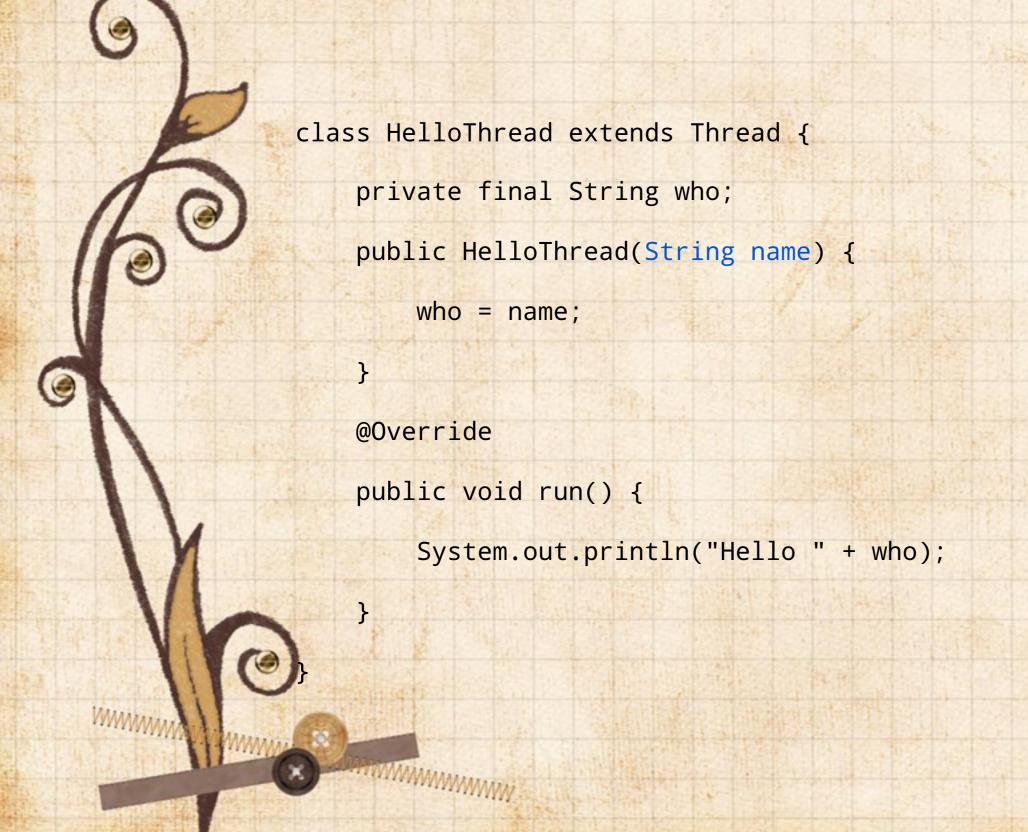
Write a HelloThread class







HelloThread with constructor



Start three thread





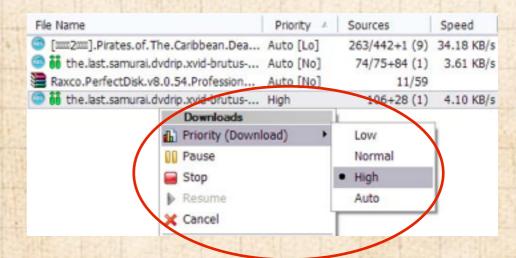
Thread.MAX_PRIORITY //10

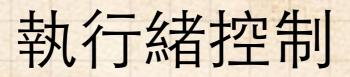
Thread.MIN_PRIORITY //1

Thread.NORM_PRIORITY //5

MMMMMMMMM

//優先權高,得到處理器時間的機會較高,但是"不保證"





Thread.sleep(int time)

//讓目前的執行緒休息

yield()

//讓給其他執行緒先處理

thread1.join()

MMMMMMMM

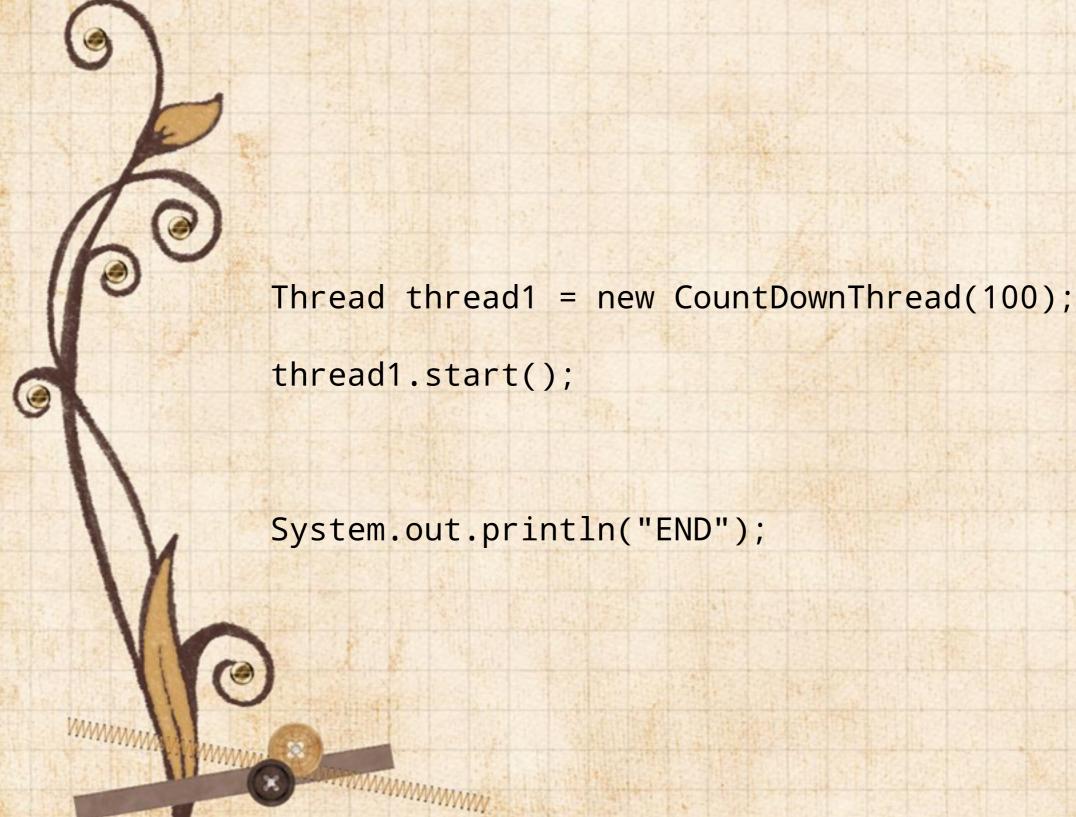
//等thread1結束再處理

CoundDownThread

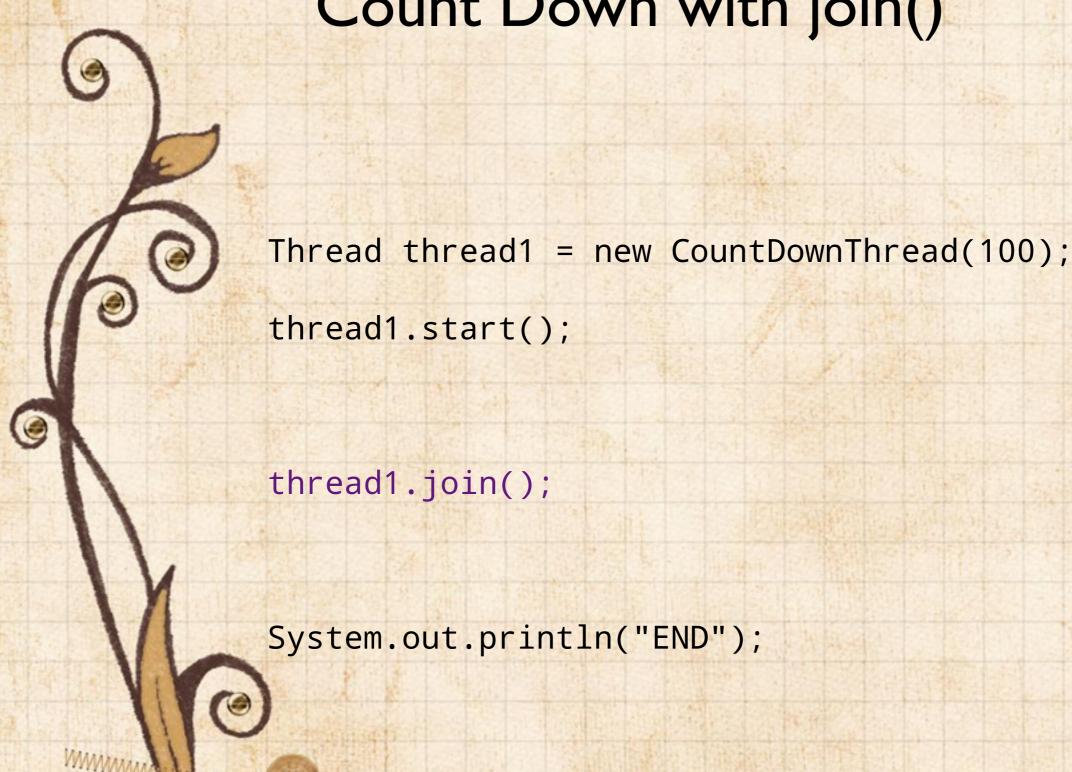


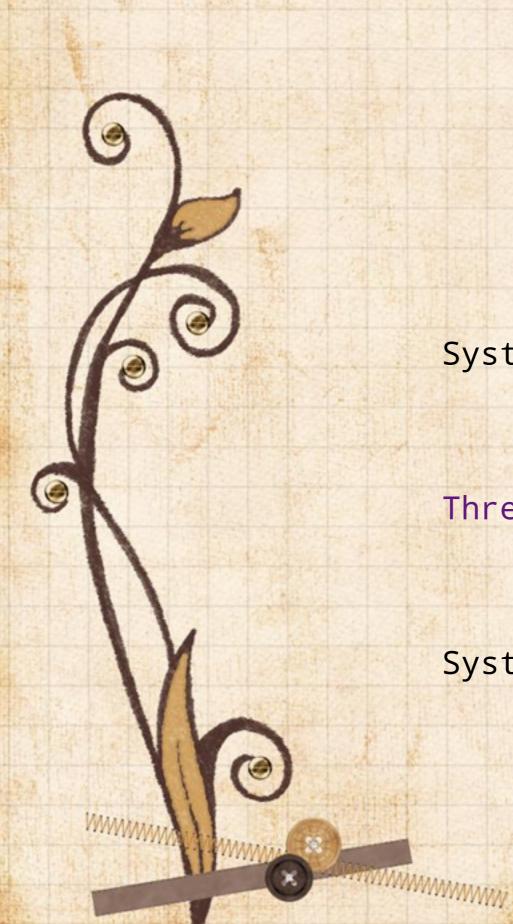
```
class CountDownThread extends Thread {
 private final int num;
 public CountDownThread(int num) {
     this.num = num;
 }
 @Override
 public void run() {
     for (int i = num; i >= 0; i--) {
         System.out.println(i);
```





Count Down with join()





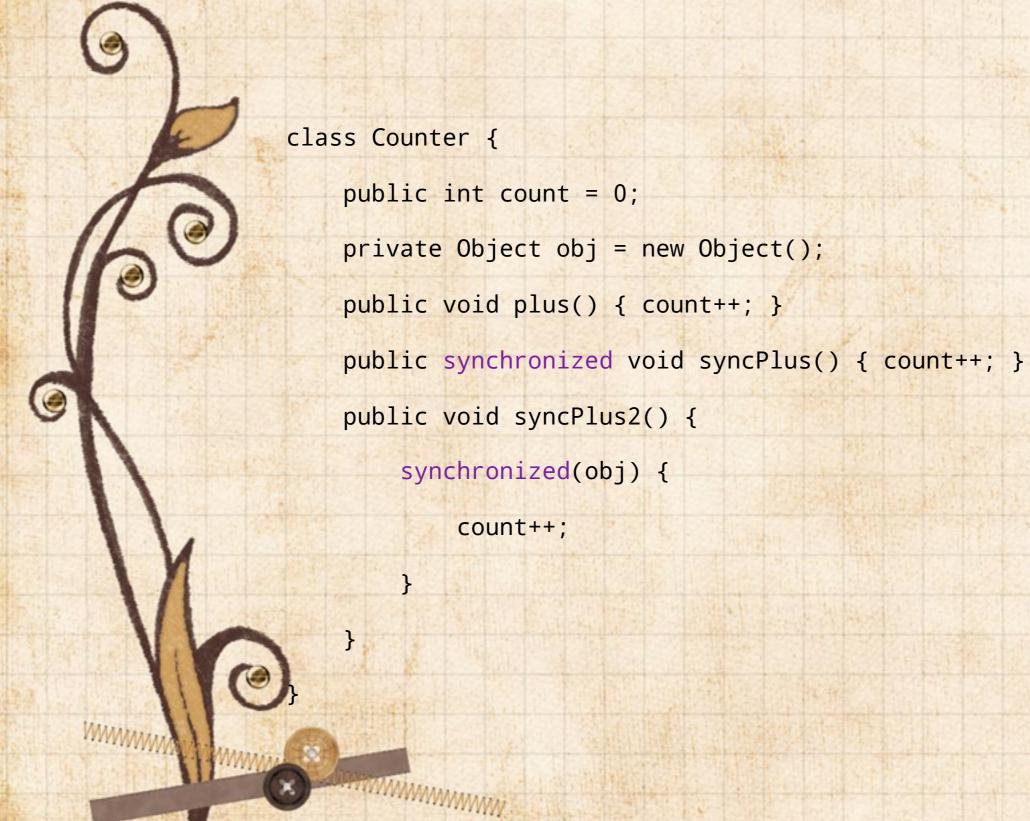
Sleep ...

System.out.println(new Date());

Thread.sleep(5000);

System.out.println(new Date());

Counter



CounterThread

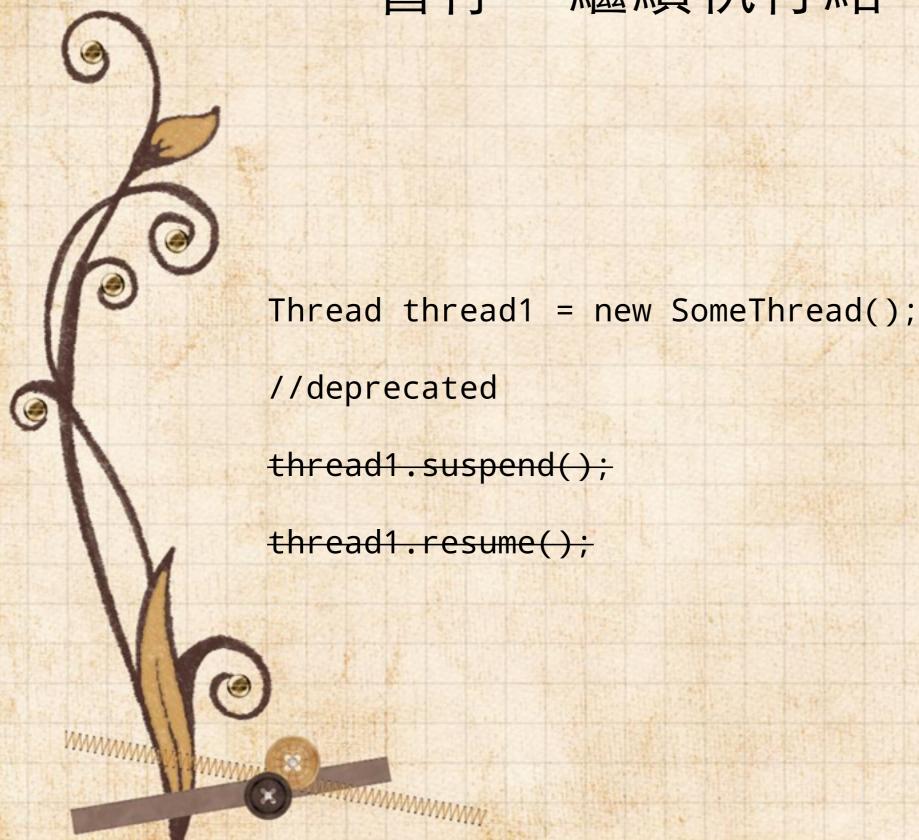


```
class CounterThread extends Thread {
 private final Counter counter;
 public CounterThread(Counter counter) {
     this.counter = counter;
 }
 @Override
 public void run() {
     counter.plus();
     //counter.syncPlus();
     //counter.syncPlus2();
```





暫停、繼續執行緒

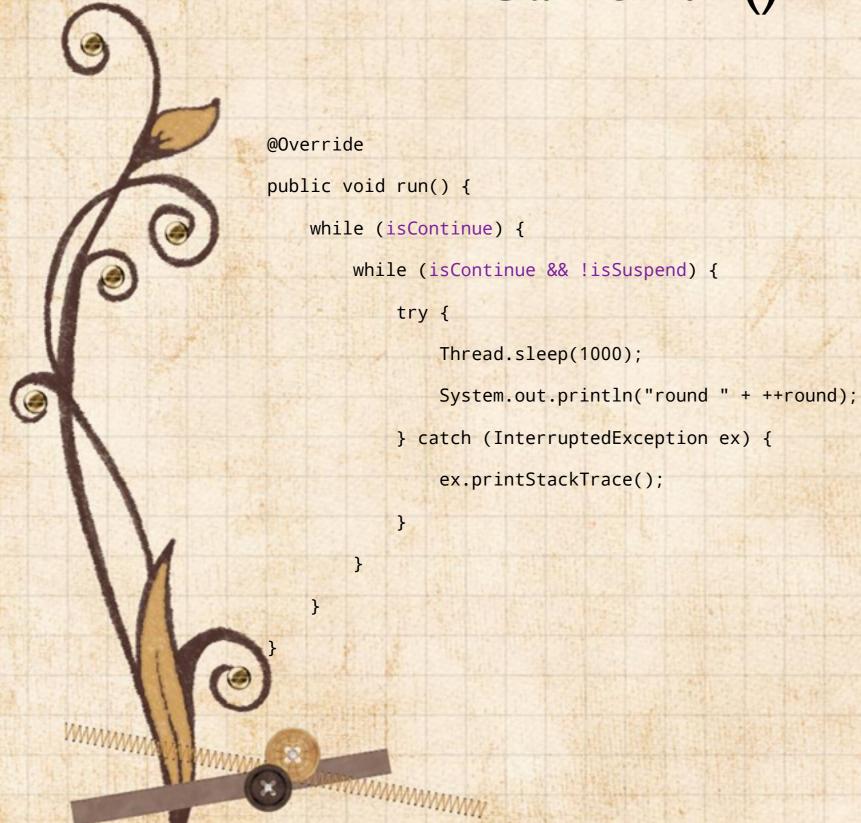


Game



```
class Game implements Runnable {
 private boolean isContinue = true;
 private boolean isSuspend = false;
 private int round = 0;
@Override
 public void run() {
     11...
 }
 public void stop() { isContinue = false; }
 public void suspend() { isSuspend = true; }
 public void resume() { isSuspend = false; }
```

Game run()



Control the Game



Swing Counter Practice





File Downloader Practice

