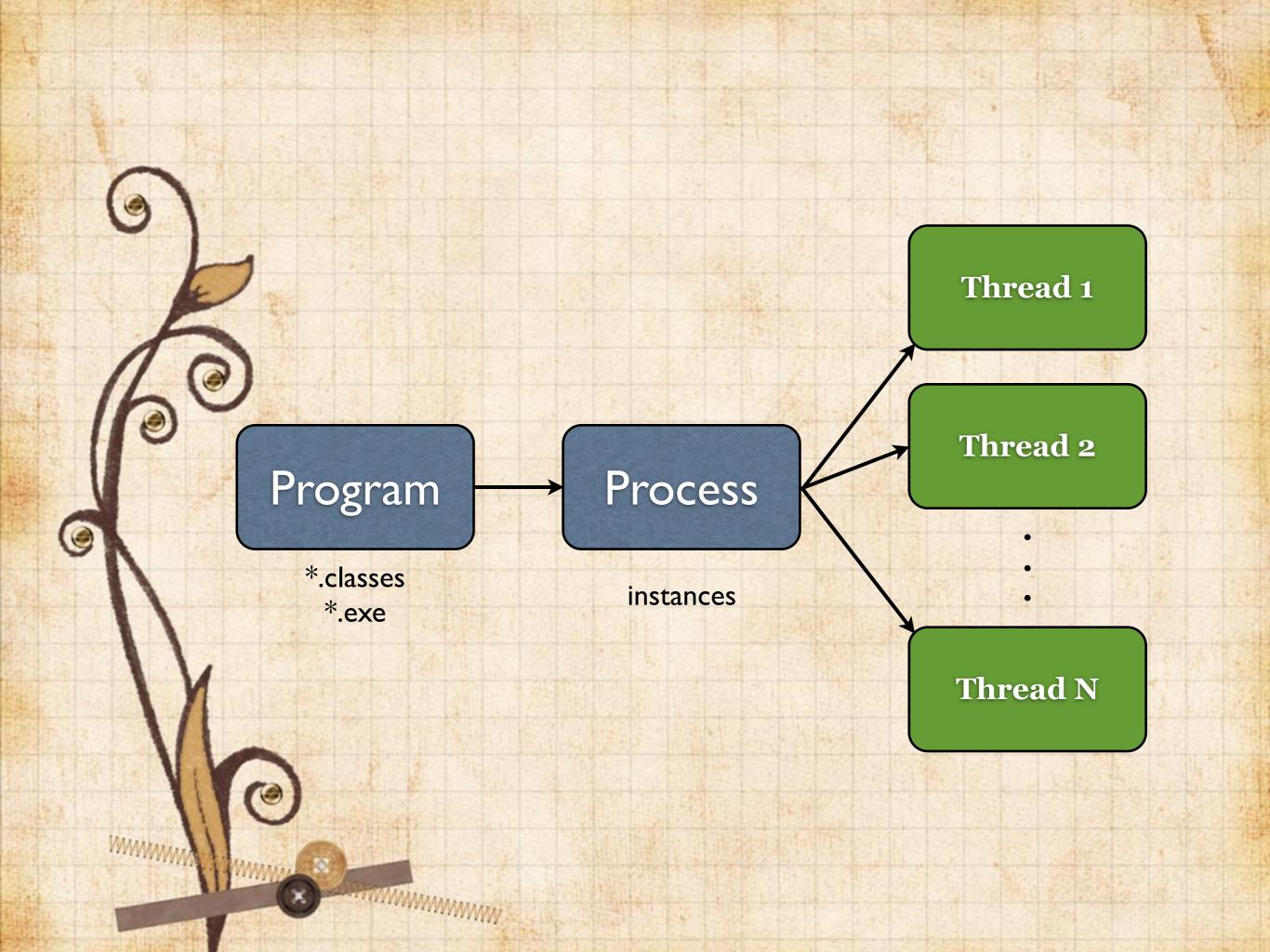


Java 物件導向程式語言 多執行緒程式設計

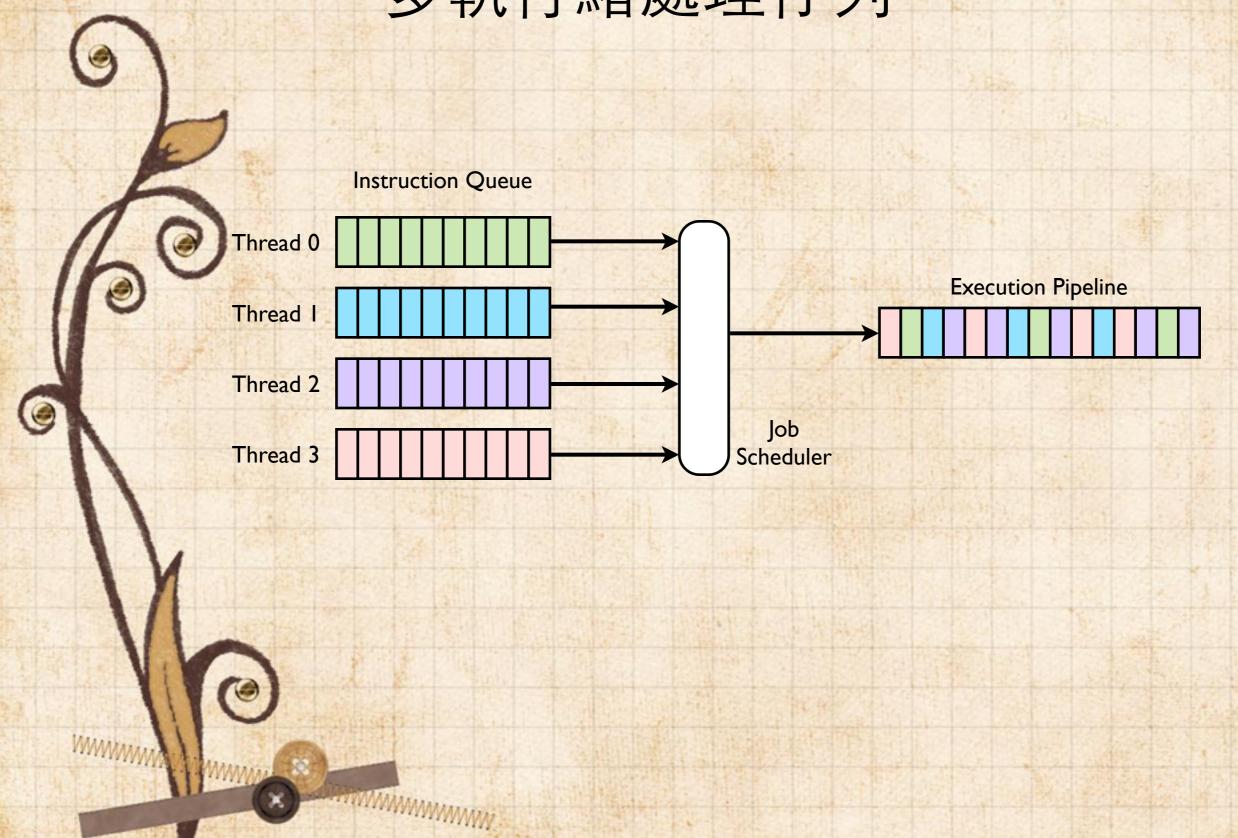
正修科技大學資訊工程系

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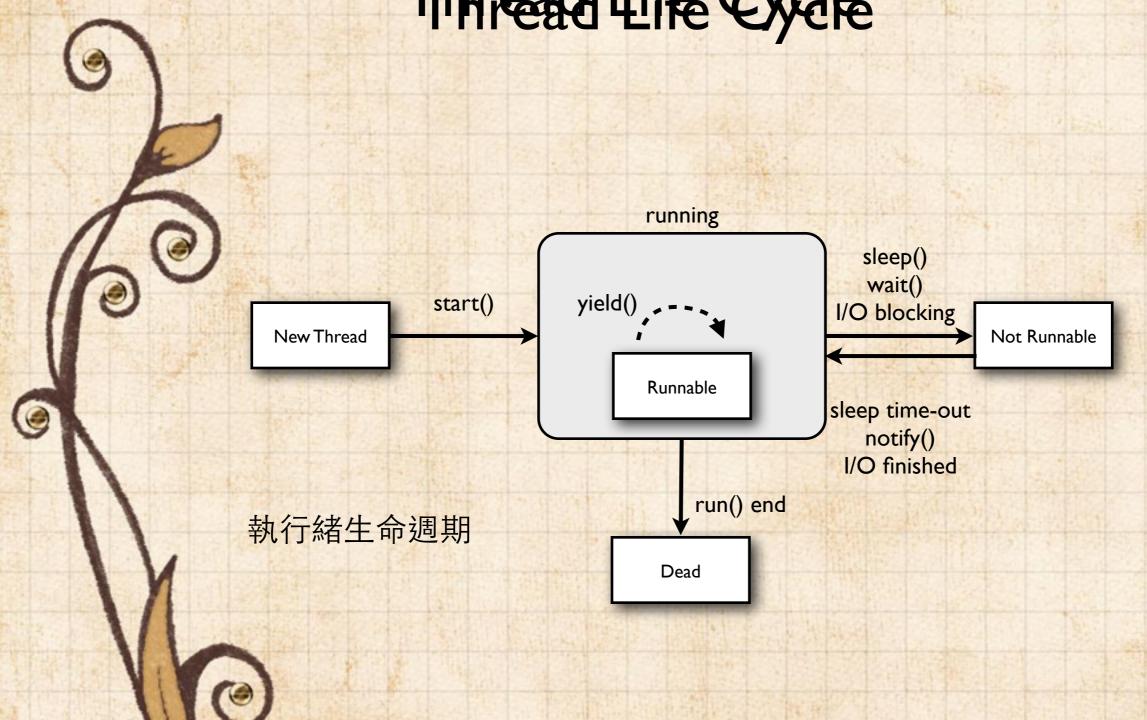




多執行緒處理佇列

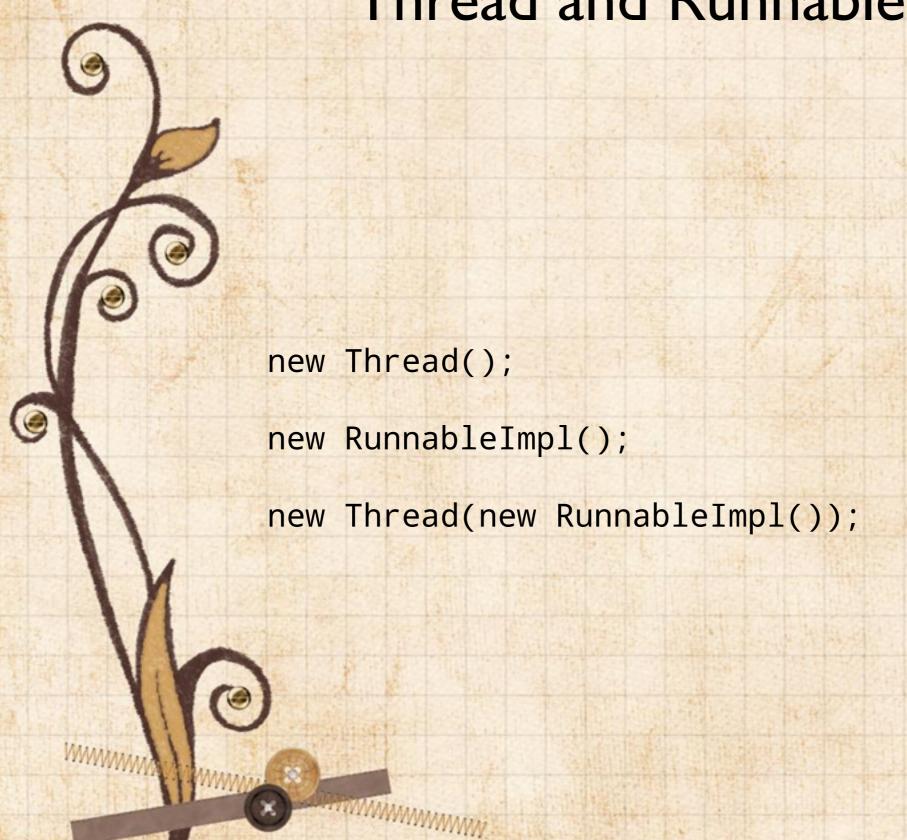


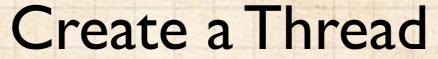
Thriead Life Cycle

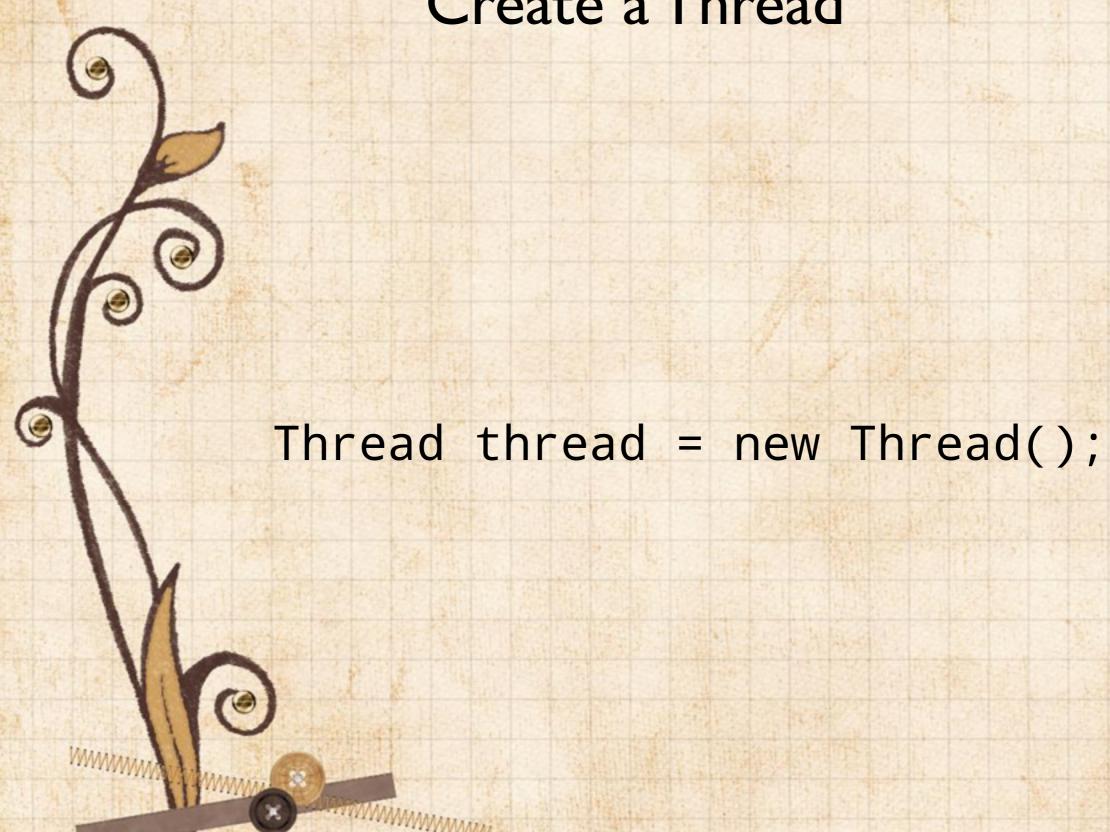


WWWWWW

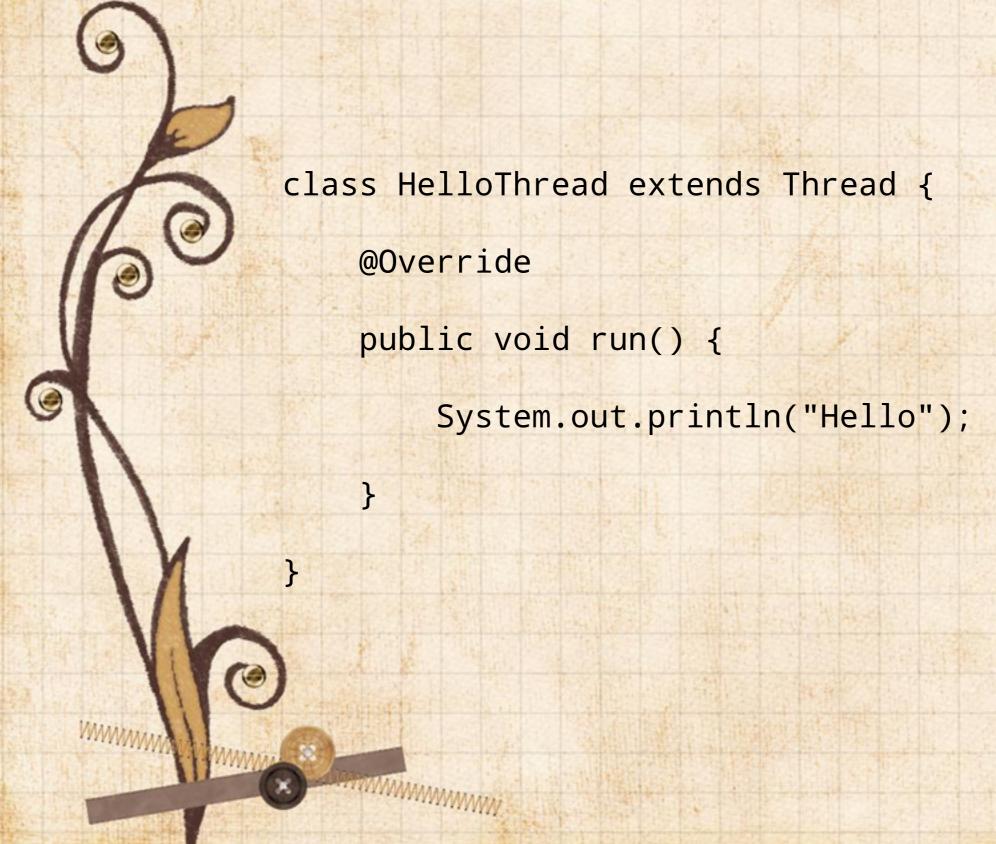


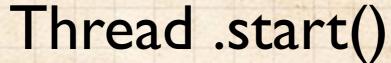






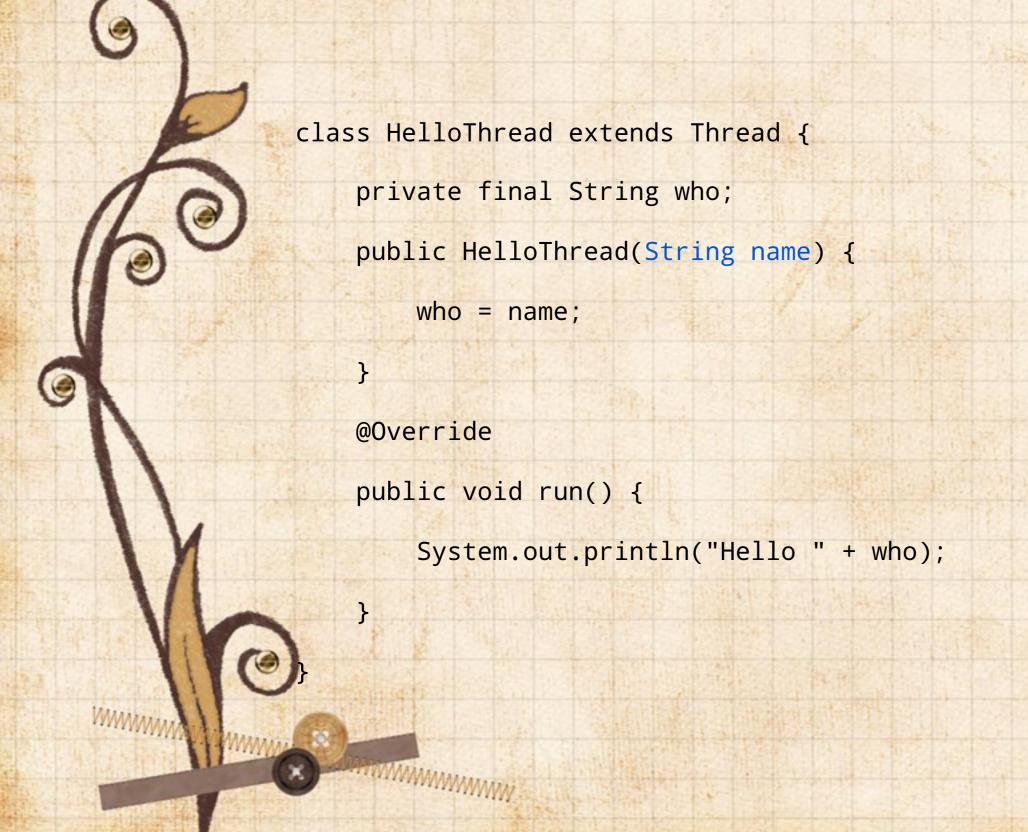
Write a HelloThread class







HelloThread with constructor



Start three thread





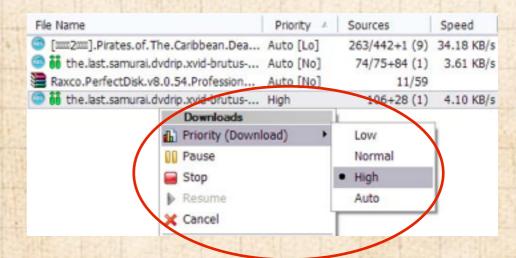
Thread.MAX_PRIORITY //10

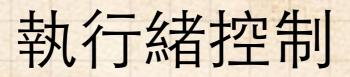
Thread.MIN_PRIORITY //1

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

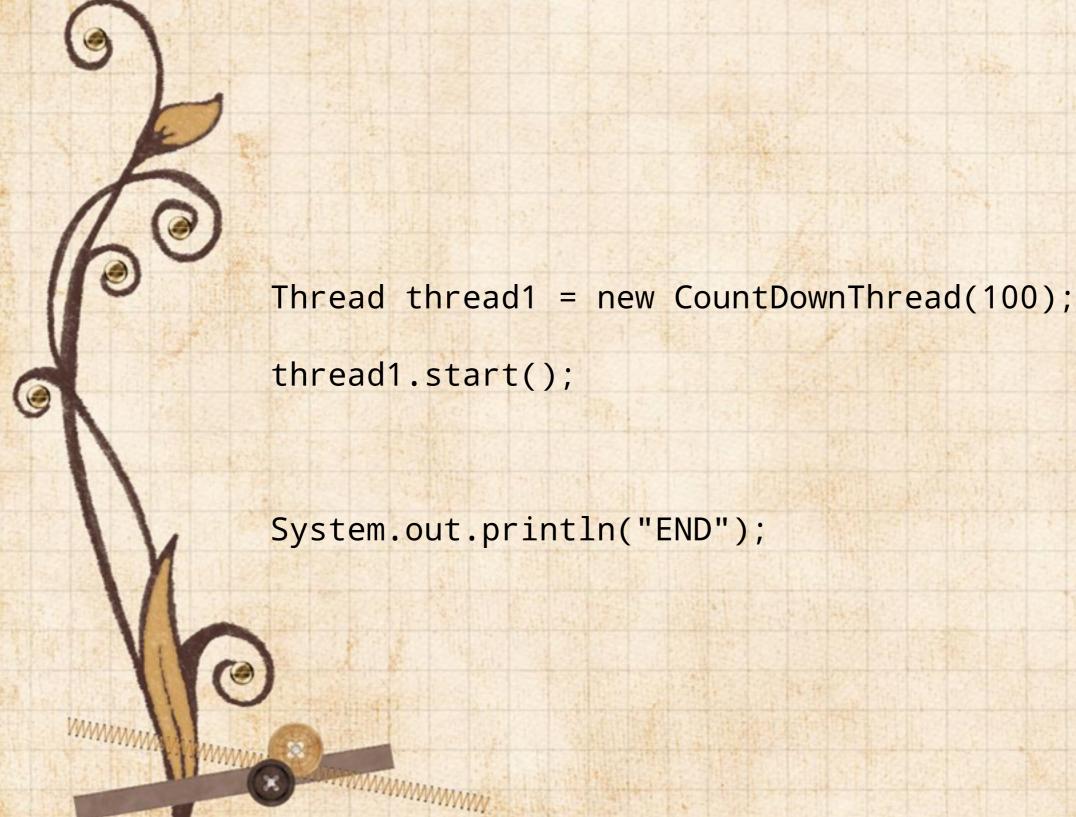
//等thread1結束再處理

CoundDownThread

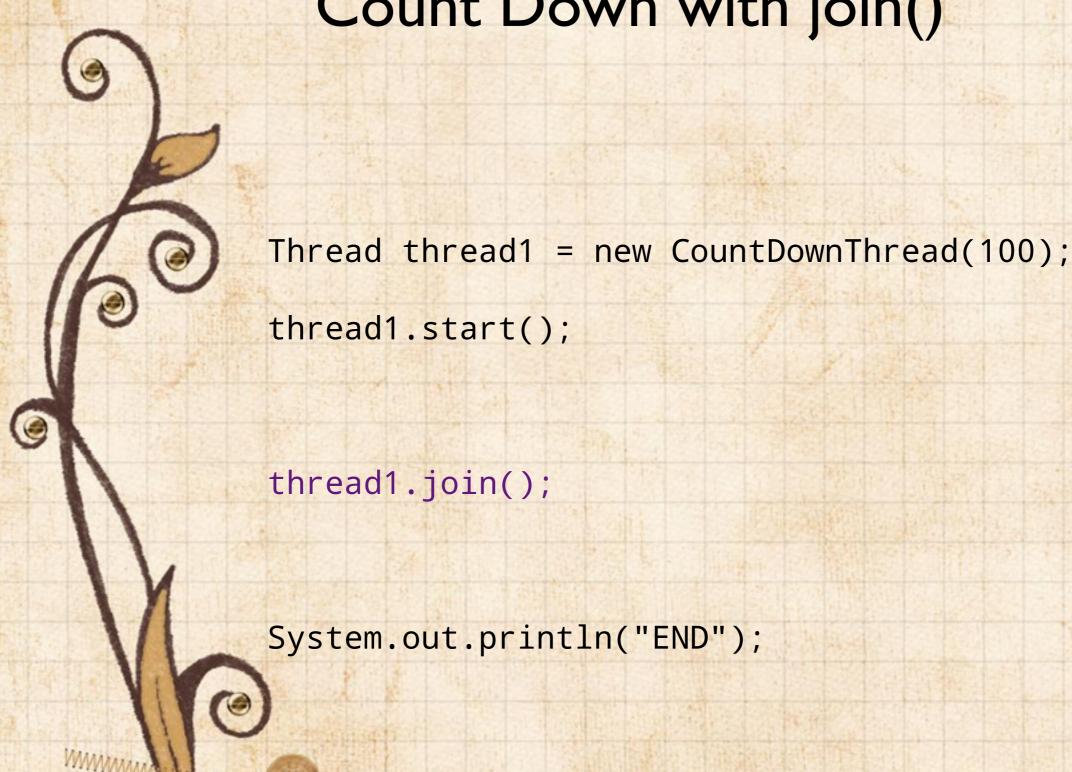


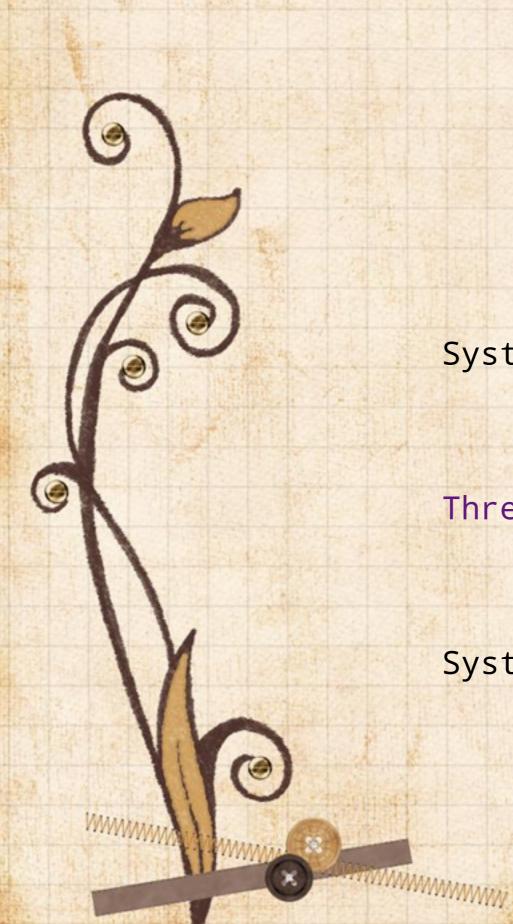
```
class CountDownThread extends Thread {
    private final int num;
    public CountDownThread(int num) {
        this.num = num;
    }
    @Override
    public void run() {
        for (int i = num; i >= 0; i--) {
            System.out.println(i);
```





Count Down with join()





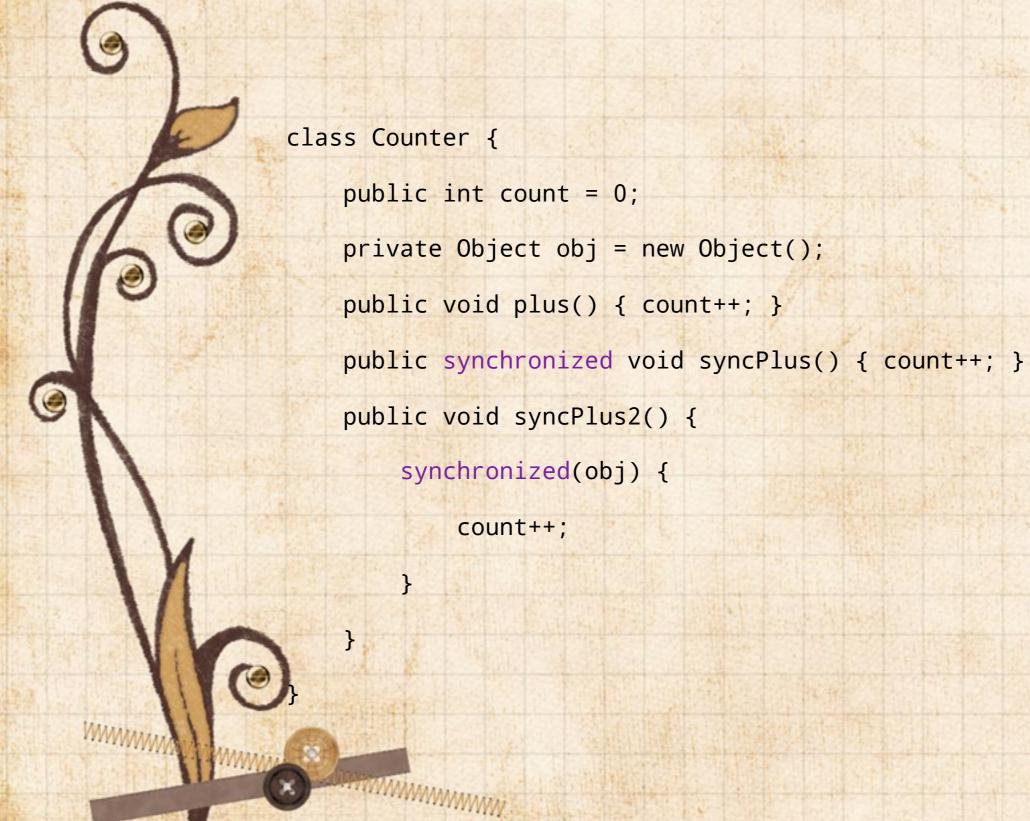
Sleep ...

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

Thread.sleep(5000);

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

Counter



CounterThread

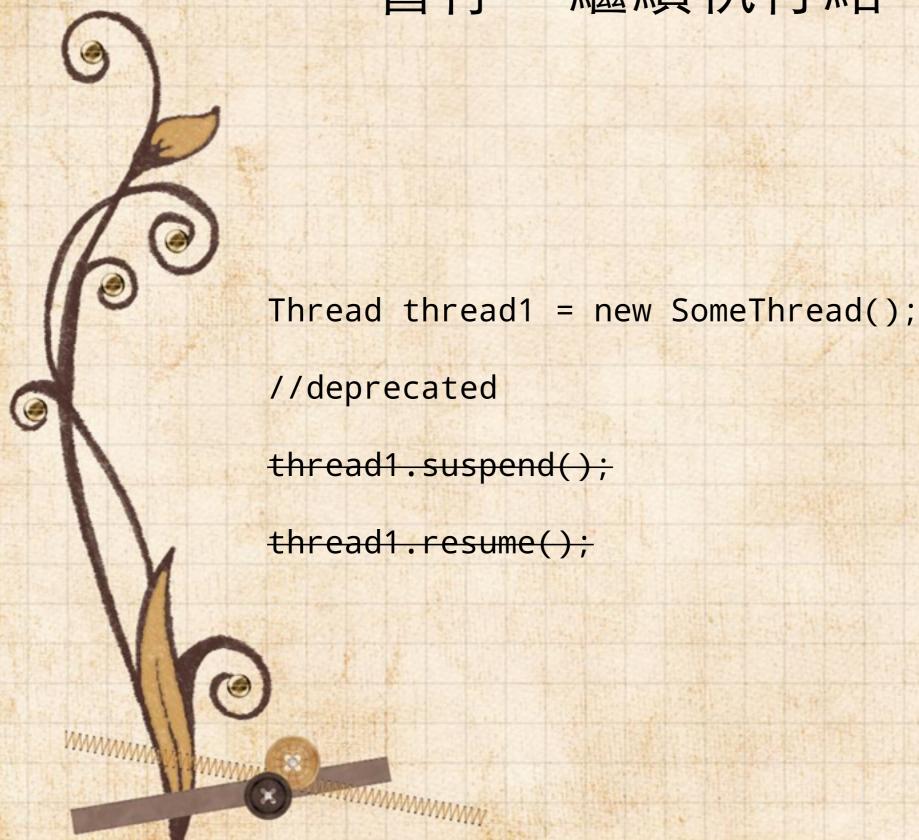


```
class CounterThread extends Thread {
    private final Counter counter;
    public CounterThread(Counter counter) {
        this.counter = counter;
    }
    @Override
    public void run() {
        counter.plus();
        //counter.syncPlus();
        //counter.syncPlus2();
```





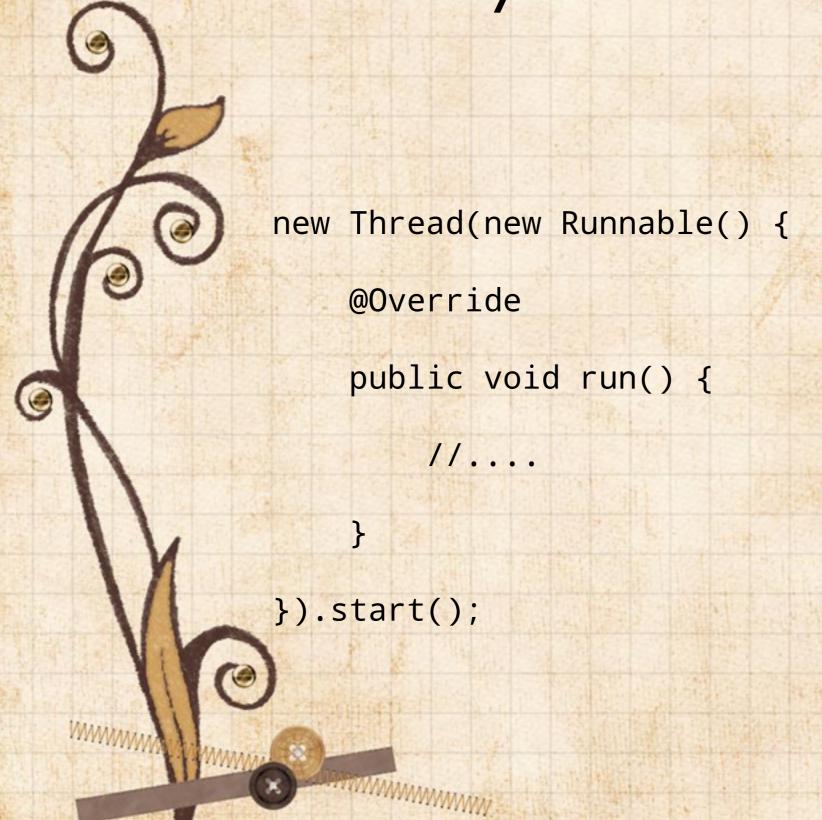
暫停、繼續執行緒



Runnable Interface

```
class SomeClass implements Runnable {
    @Override
    public void run() {
        //...
new Thread(new SomeClass()).start();
```

Anonymous Runnable

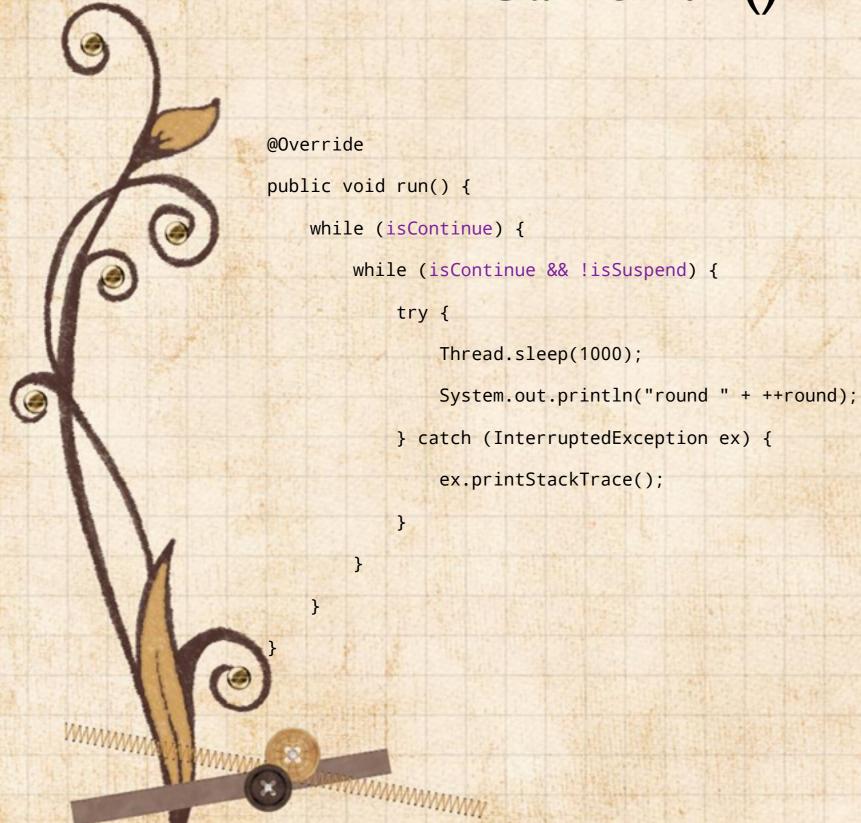


Game



```
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()

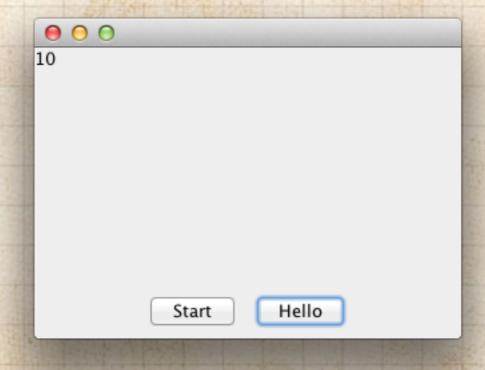


Control the Game









File Downloader Practice

