

# Java 内存

## Heap & Stack

Stack 里存放基本数据类型或对象的引用

Heap 里存放new出来的对象

Stack 读取速度快，空间小

Heap 读取速度慢，空间大

每个线程都有自己的Stack

整个程序共享一个堆

## Java runtime memory

<https://www.youtube.com/watch?v=UcPuWY0wn3w>

The video frame shows a man in a purple shirt pointing at a whiteboard. The whiteboard contains handwritten code and a diagram of the Java Stack.

**Code on the whiteboard:**

```
doWork() {  
    float Weight = 120.30;  
    > doMore();  
}  
  
int age;  
age = 12;  
age = 15;  
-> doWork();
```

**Stack diagram:**

The Stack is represented as a vertical container with frames. From bottom to top, the frames are:

- main()**: Contains a variable `age`.
- doWork()**: Contains a small square icon.
- doMore()**: Contains a small square icon.

The video player interface at the bottom shows a progress bar at 7:53 / 23:57 and various control icons.