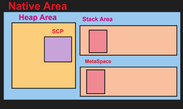
Java memory management

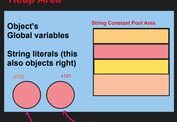


Native area:-

Native area is allocated to Java through system "RAM".

The Java developer team splitted into this native area to 3 parts from Java 8v onwards

1) Heap Area
2) Stack Area
3) meta space



Heap Area:-

Here, Java will store only global variables & objects, and one more area is there inside heap that is "String constant pool Area" (SCP). SCP not allow to duplicate values, if it is duplicate it will pointing to old value reference.

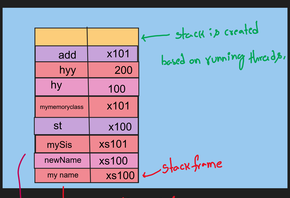
Here have this code as reference, this code contains both static and non-statics, Global variables & local variables, String objects and String literals objects.

Concept the flow of this code :-

Above the code and chart is indicated which references are storing into heap memory and different places and different object References.

Let's take about code as a Example :-

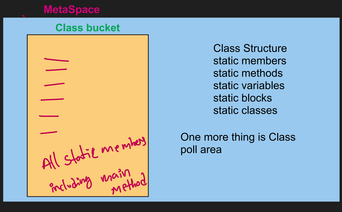
Stack Area



Let's understand the Concept wise the Stack Area is only calling stored of variables and method are participated in execution flow,

the Global variables are not used anywhere in the execution, that is the reason those variables are not stored in Stack frames

MetaSpace



that's enough

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