Diagram for Thread Interaction (SimBox)
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sHomer first initializes **messages** (to be shared by other SimBox objects)

messages

Thread main()

(Runnable created in main()) send messages via each SimBox

sMarge

myMessages

sHomer

myMessages

sBart

myMessages

retrieve()
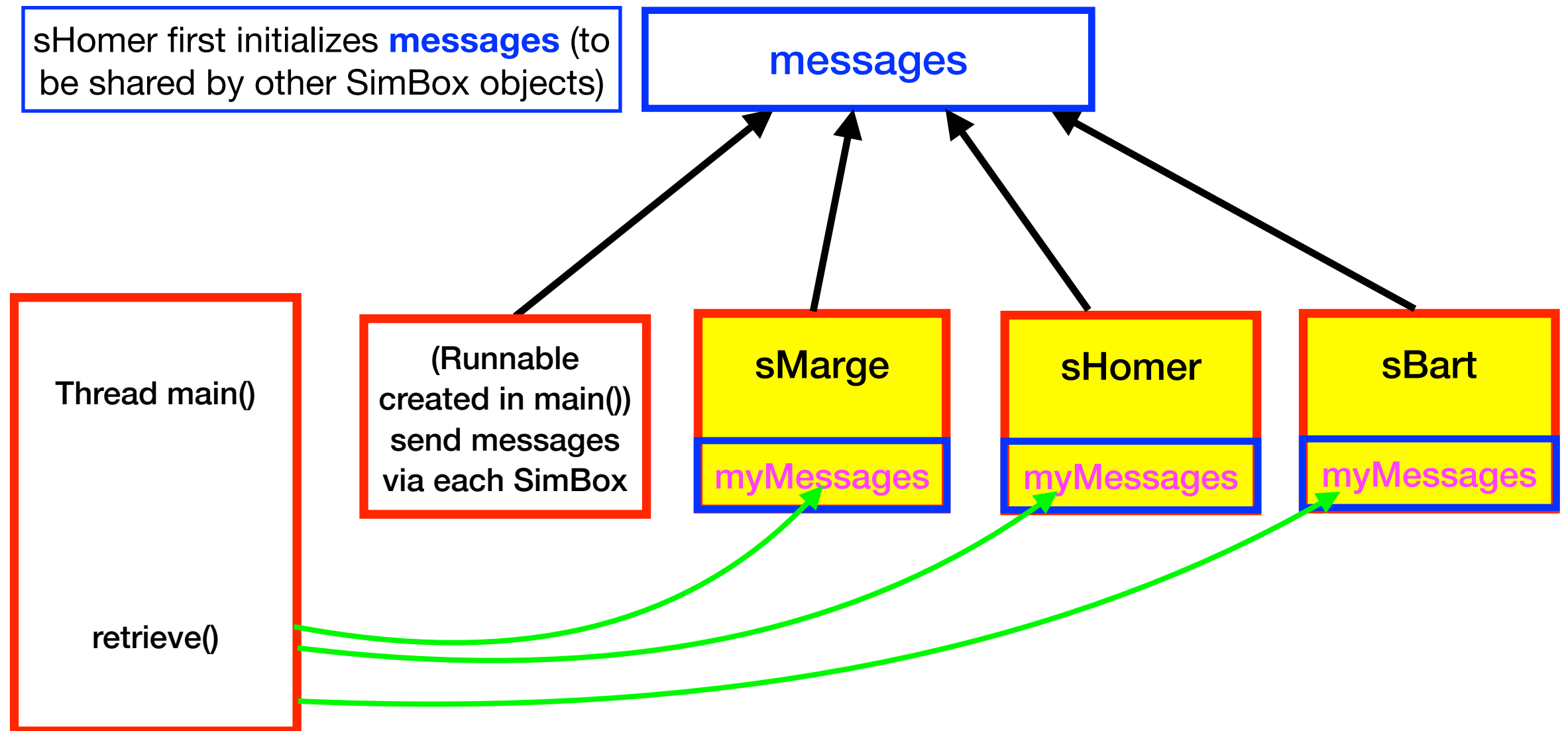
There are five threads running (each in a red box; the two on the left are created in the SimMain class and the three yellow color-filled are SimBox objects). **messages** is shared among the four threads (denoted by black arrows) and each **myMessages** is shared between its owner and main() (denoted by green arrows). Thus, you need to synchronize both **messages** and **myMessages** whenever they are accessed. Please study the main() method carefully together with the comments I put in the methods of SimBox that you need to implement.