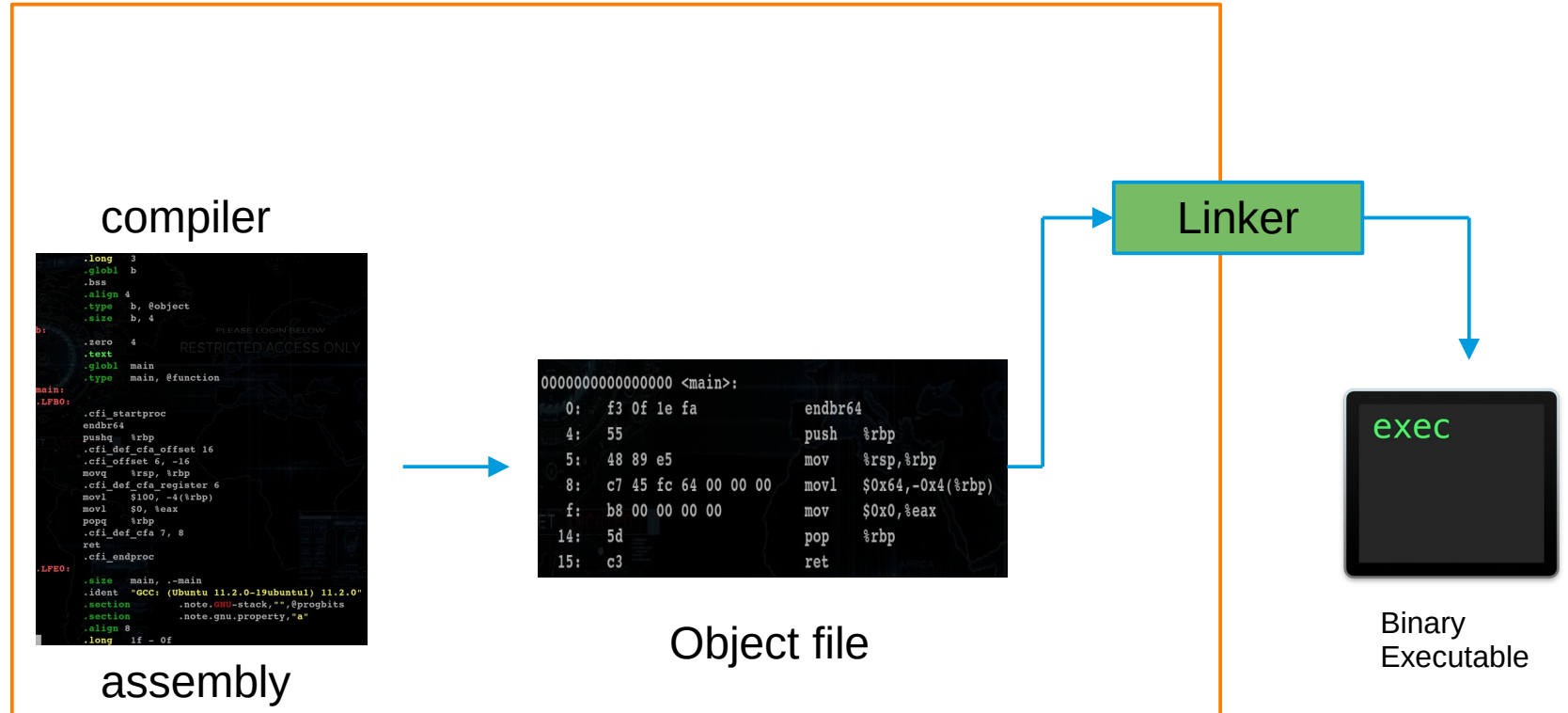
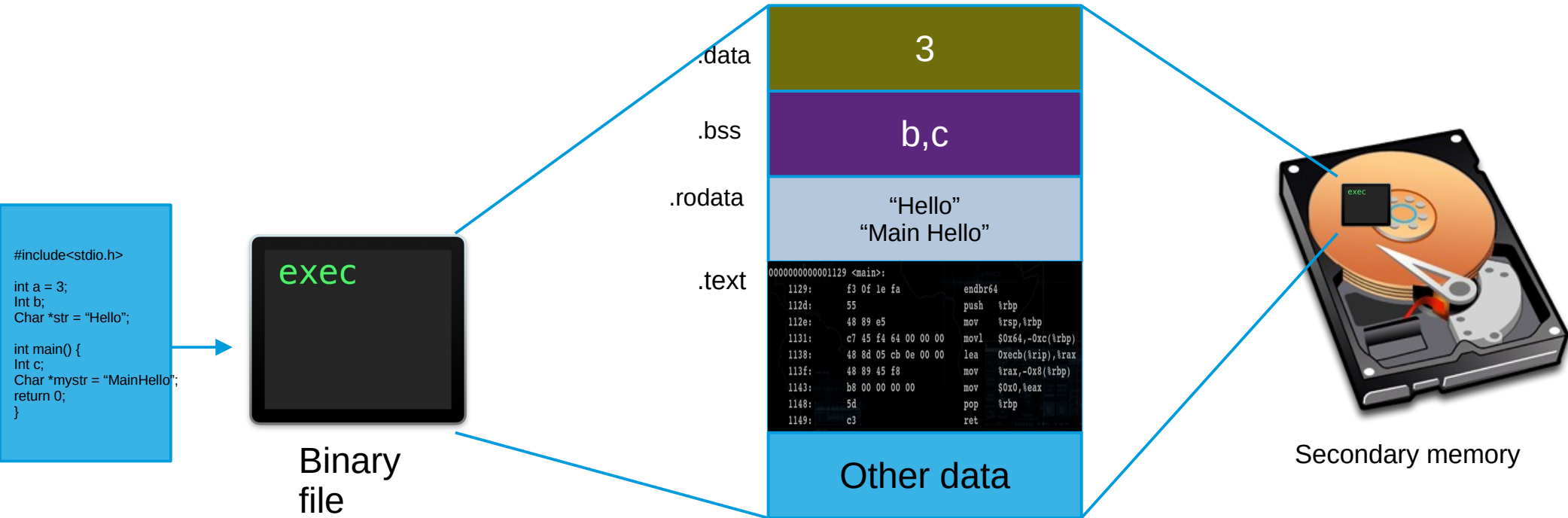


Binary Compilation process

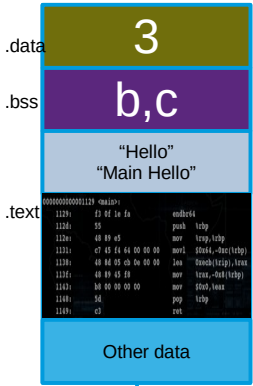
Compilation phase



Static Memory Layout of Binary

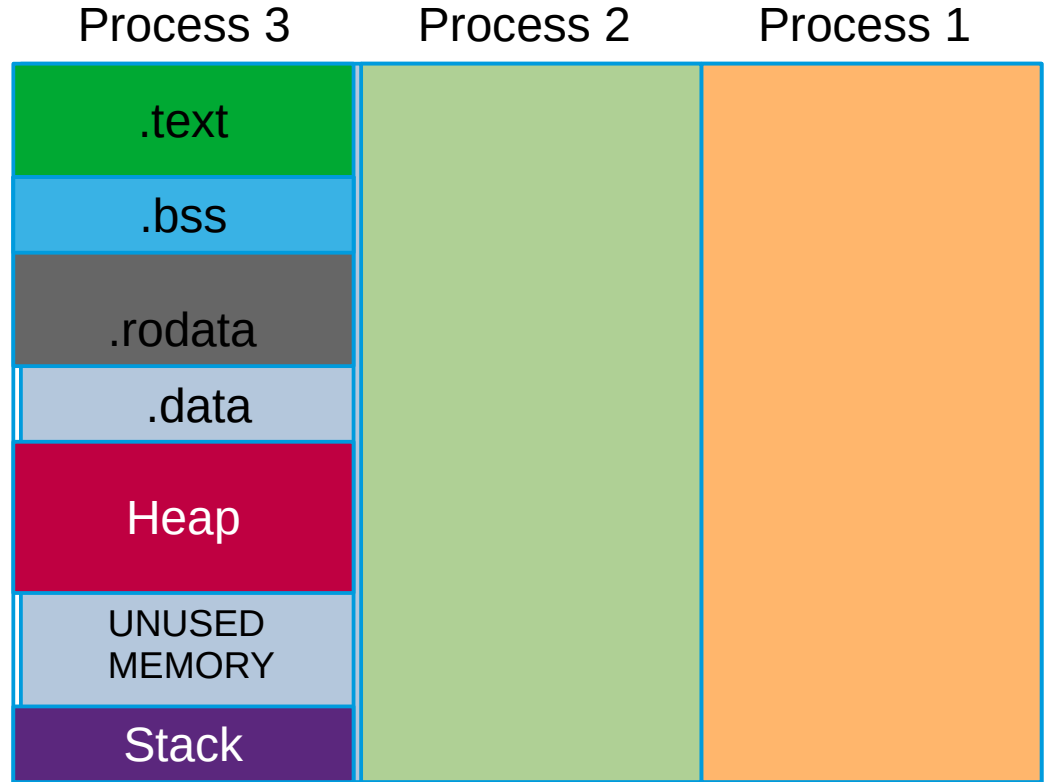


Dynamic Memory Layout inside process



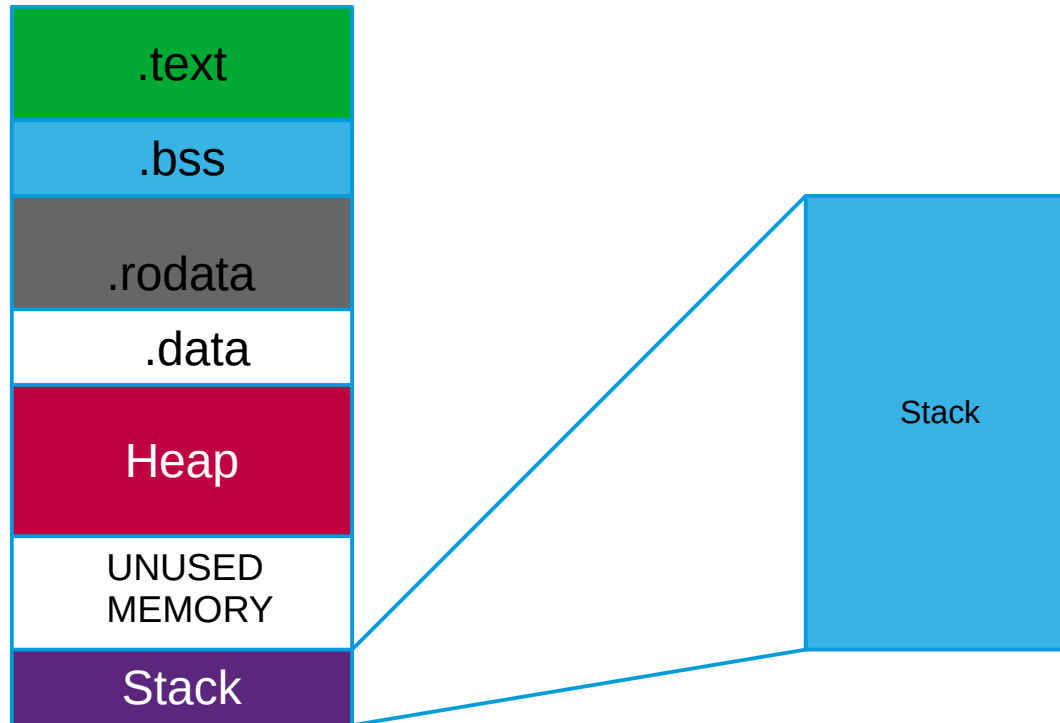
Binary File

Execute



RAM

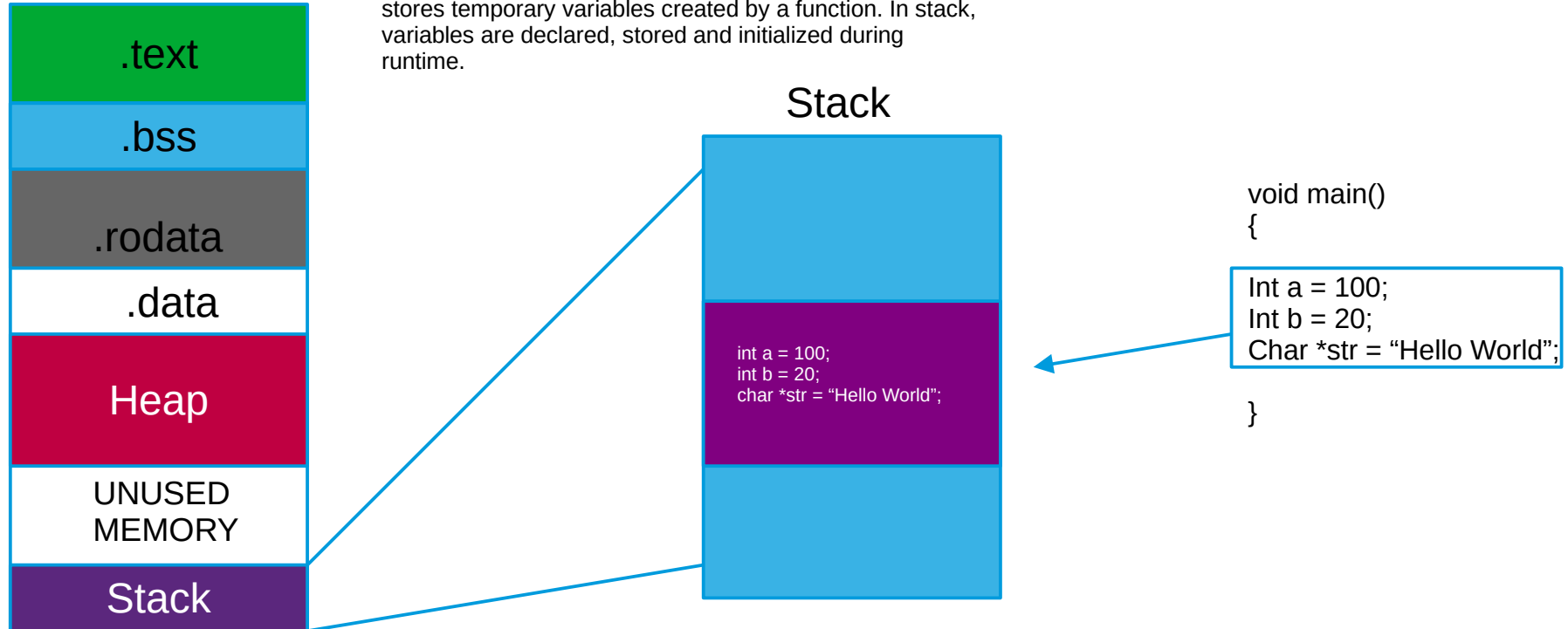
What is a stack ?



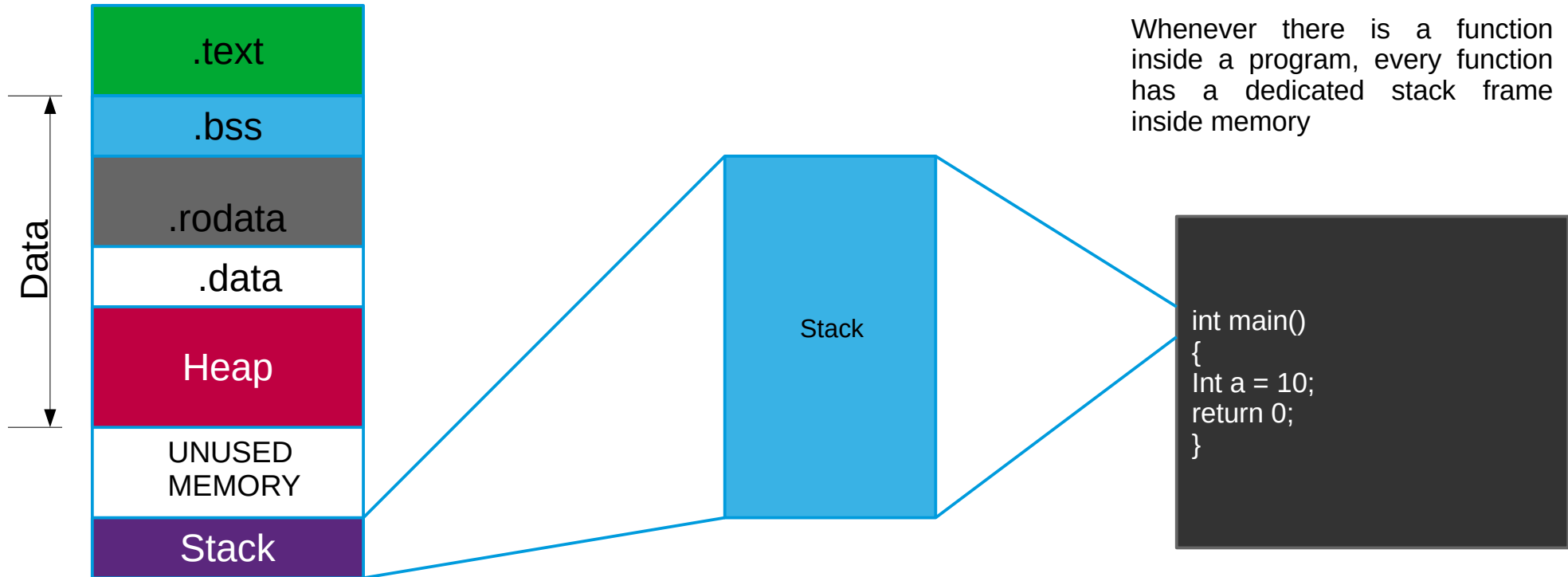
A stack is a special area of computer's memory which stores temporary variables created by a function. In stack, variables are declared, stored and initialized during runtime.

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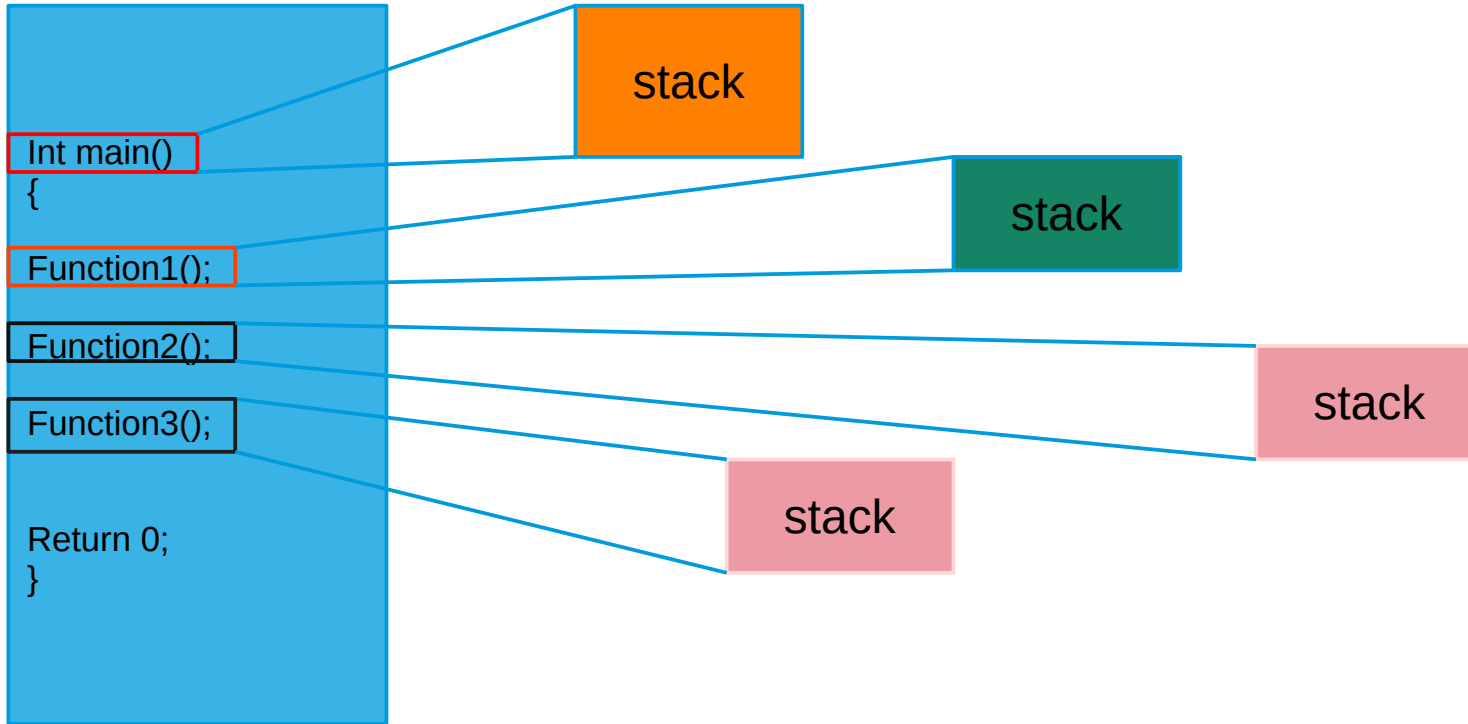
Memory Segmentation



Whenever there is a function inside a program, every function has a dedicated stack frame inside memory

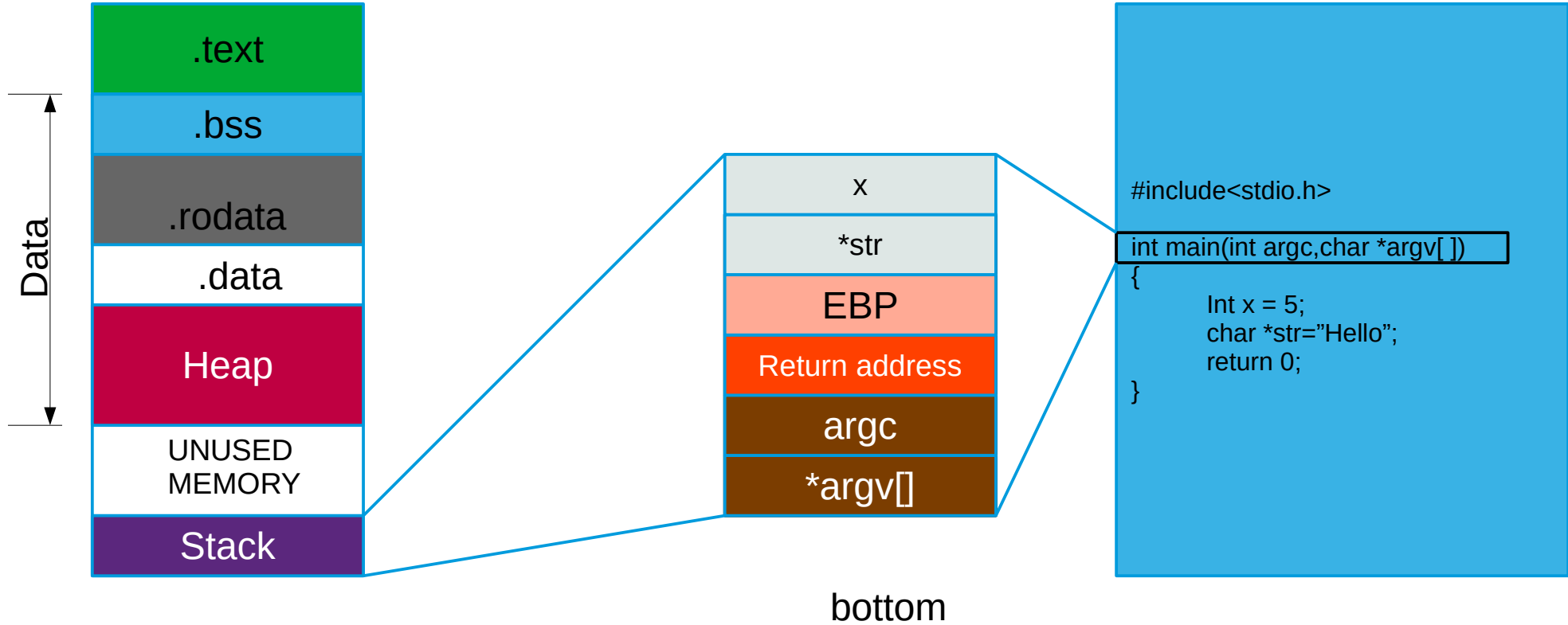
Functions and Stack

Whenever there is a function inside a program, every function has a dedicated stack frame inside memory



Memory Segmentation

STACK (top)



Memory Segmentation

STACK (top)

