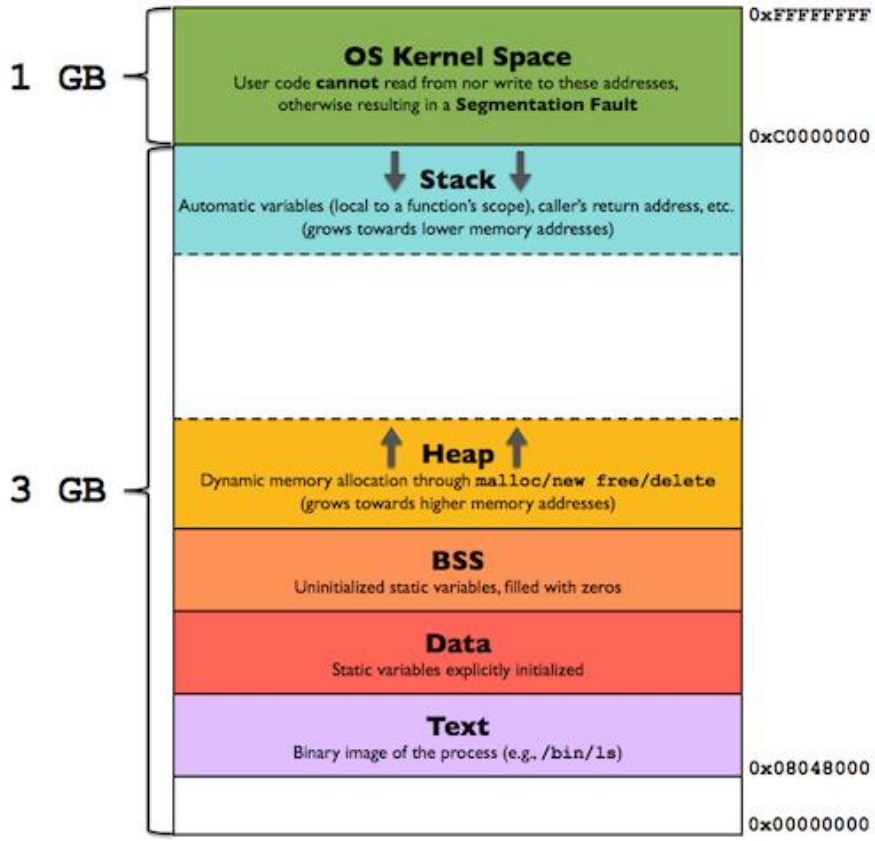
PROCESS

A process is a program in execution, (a process is an instance of a program, program becomes process when executable file is loaded in memory).

Multiple process can be created from a single program.

A process execution progresses in a sequential manner.



A process is loaded in memory (above pic is a section of ram from where a process is running).

The **DATA + BSS** section holds global and static variables.

*Process has a very limited lifespan

*A process can also generate one or more child processes.

Process

- *"Process is a program in execution."* It includes current activity as represented by PC, Registers, Stack, etc.
- *Unit of Work* in Modern Time Sharing systems

Process	Program
A process is sequence of instruction.	Program contains the instruction.
Process is a dynamic entity, that is a program in execution.	Program is static entity made up of program statement.
Process is active part. During execution it gives the result	Program is passive part. It doesn't give any result but gives result after starting its execution and becomes process.
Process is stored into memory	Program is stored in disk.
Process compete for computing resources like CPU time or memory.	Program does not compete for Computing resources.