

Prepared by DHMAI

## MEMORY LAYOUT

NO WAY TO IGNORE

TRUST ME

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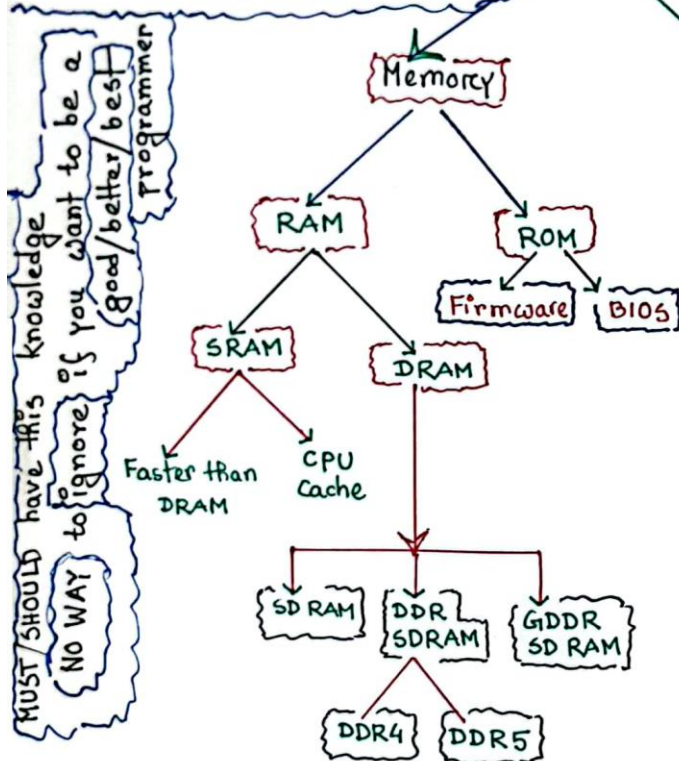
and Distributed System

Master on Internet Architecture

### Types of Memory & Storage

### Memory

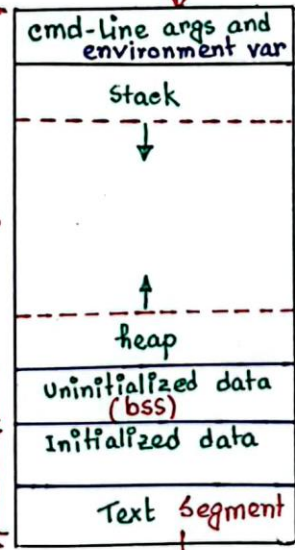
a primal component of computer Arch. and very imp. to know by Programmer



MUST/SHOULD have this knowledge if you want to be a good/better/best programmer

MUST TO HAVE SHOULD HAVE THIS Knowledge

High Address



A Typical Memory Layout of Running Process

Initialized Data Segment: Global and static variables

Uninit Data Segment: BSS segment

HEAP: Dynamic mem alloc (mmap)

An ancient Assembler Operator (block started by symbol)

Initialized to zero by EXEC  
Read from Prog file by EXEC

Heap area shared by all shared libraries and dynamically loaded modules in a process.

Low Address

Code Segment program in an object file or executable instruction