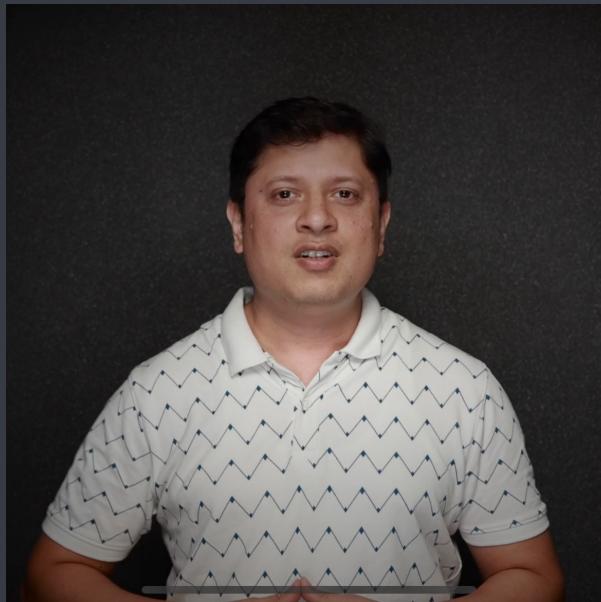


C Language

Introduction to programming



Saurabh Shukla (MySirG)

Agenda

- ① Why you need a software?
- ② Machine Code
- ③ How to build a software using C/C++?

Why you need a software?

ATM

Contacts

-
-
-

Software is to
manage or
manipulate data
by using hardware
capabilities

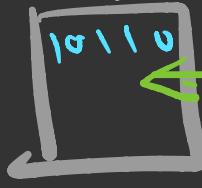
Files

Data

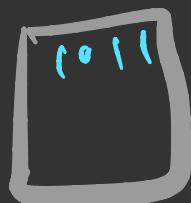
• jpg



• mp3



• txt



• pdf



• docx

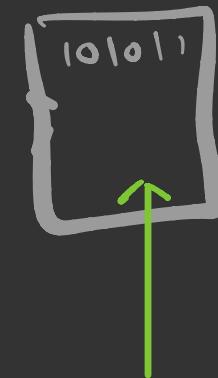


• pptx



Software

• .exe

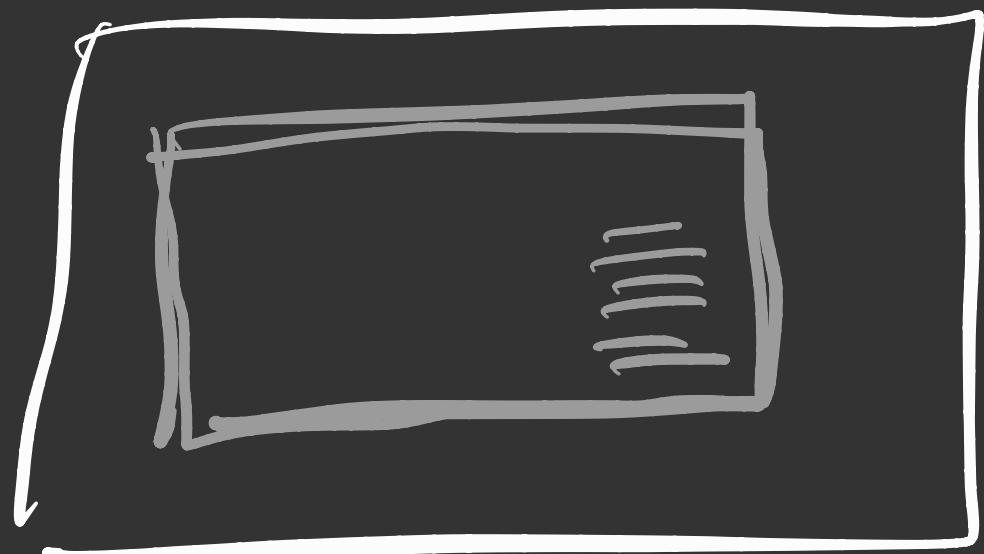


Normal data
to be used by
some software

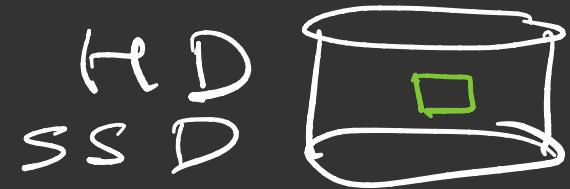
instructions
used by OS



processor
(CPU)



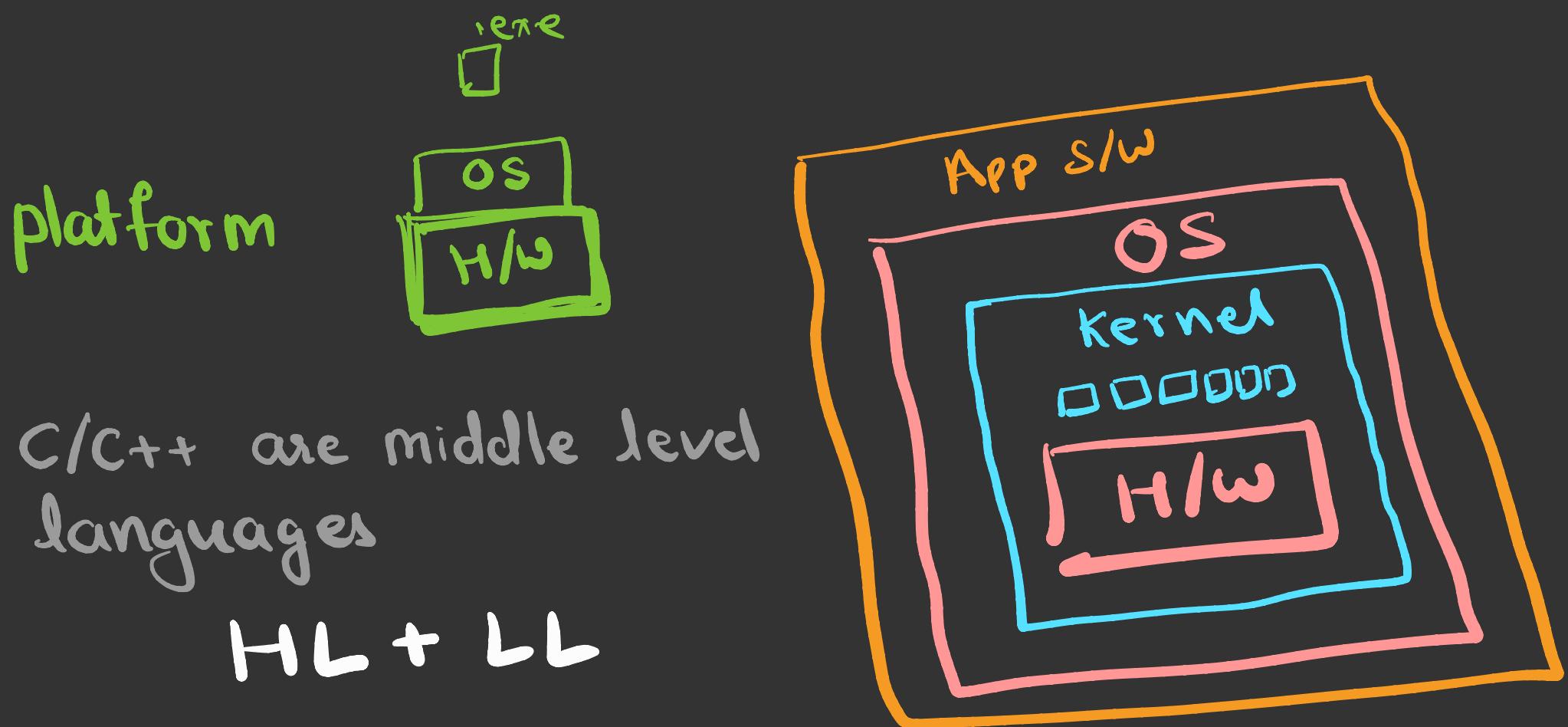
RAM

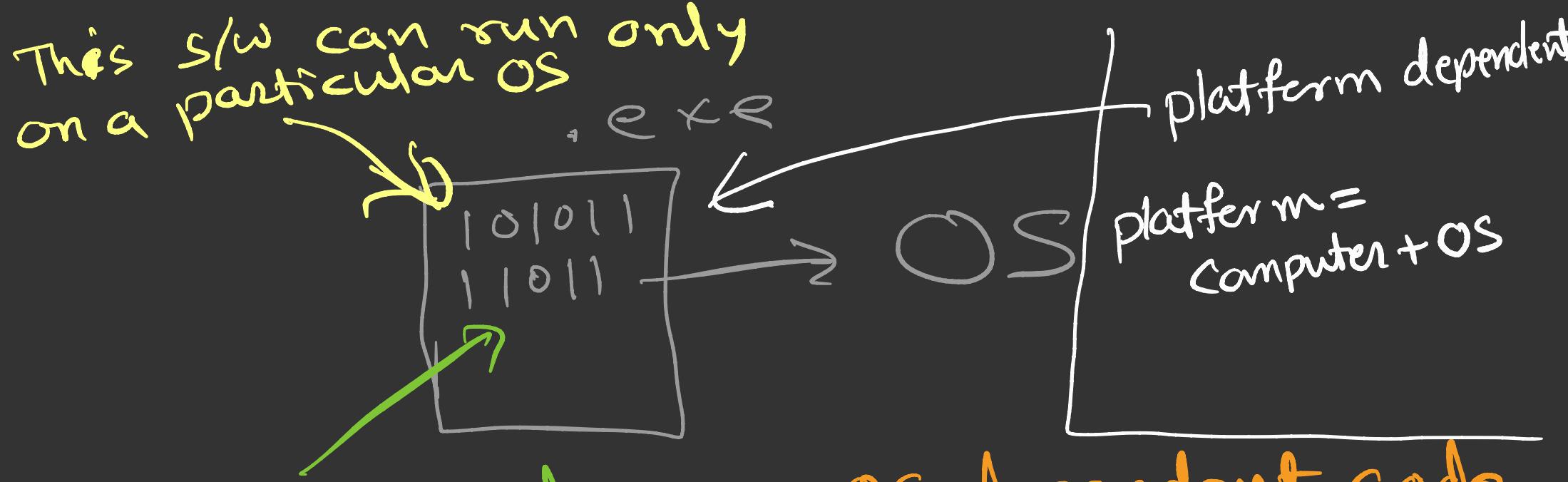


Machine Code

Machine code is a binary code which an operating system can understand.

machine code is platform dependent





Machine code ← OS dependent code

Machine code for windows is
different from machine code for mac
and different from machine code for
Linux

Windows

Mac

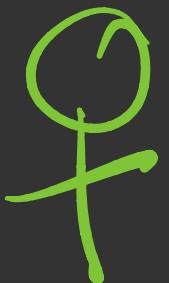
Linux

....

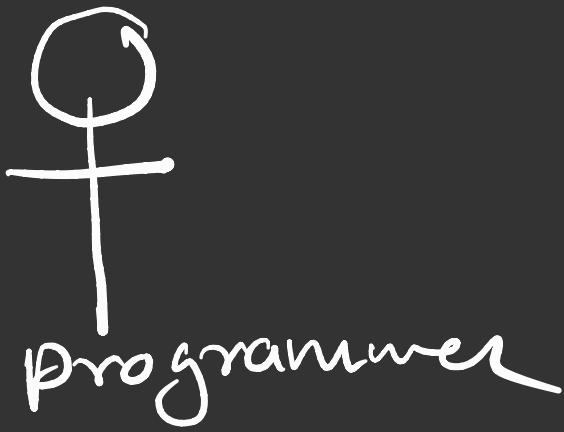
- You can build software in any programming language
- There are thousands of programming languages in the world
- 200 - 400 programming languages are active.

There are many types of software
and applications

- console application
- GUI application
- mobile application
- web application

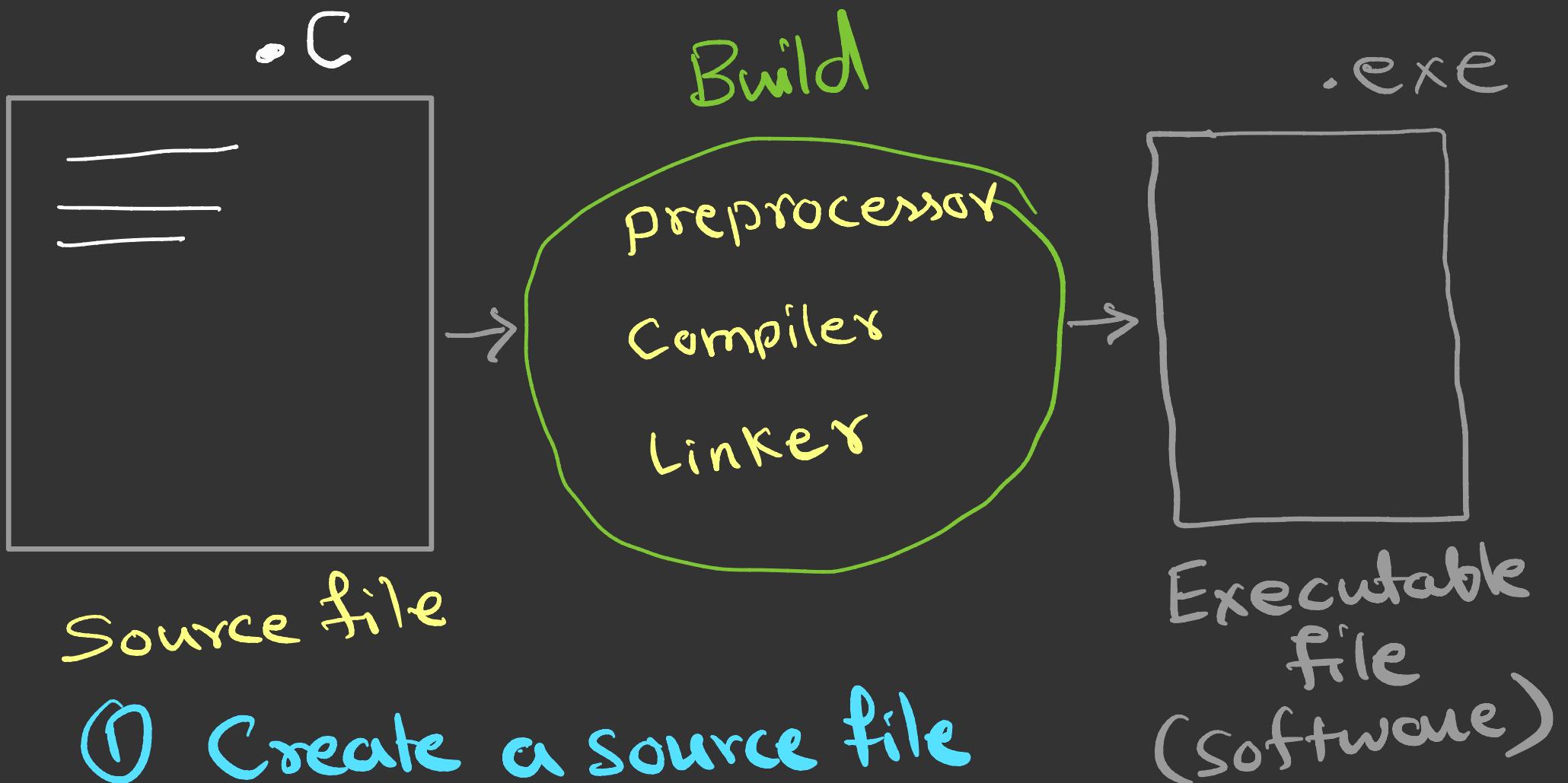


.exe



Computer

How to build a software through C ?



Source file

① Create a source file

② Build Software

Executable
file
(Software)