Java
Programming Languages

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➢Programming Languages

➢High Level Programming Languages

➢**What**

– What is the programming Languages?

➢**Why**

– Why we have to learn programming languages?

➢**How**

– How can we program using the languages?
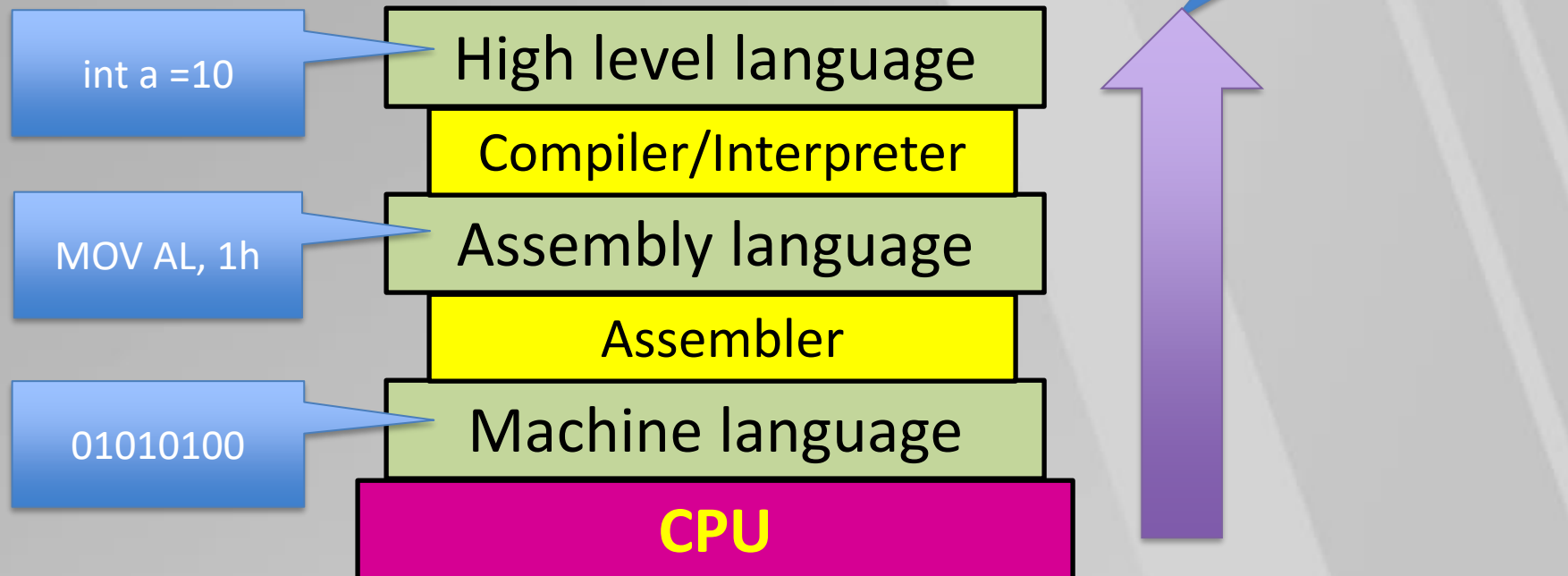
➢Introduction to Programming Languages (PL)
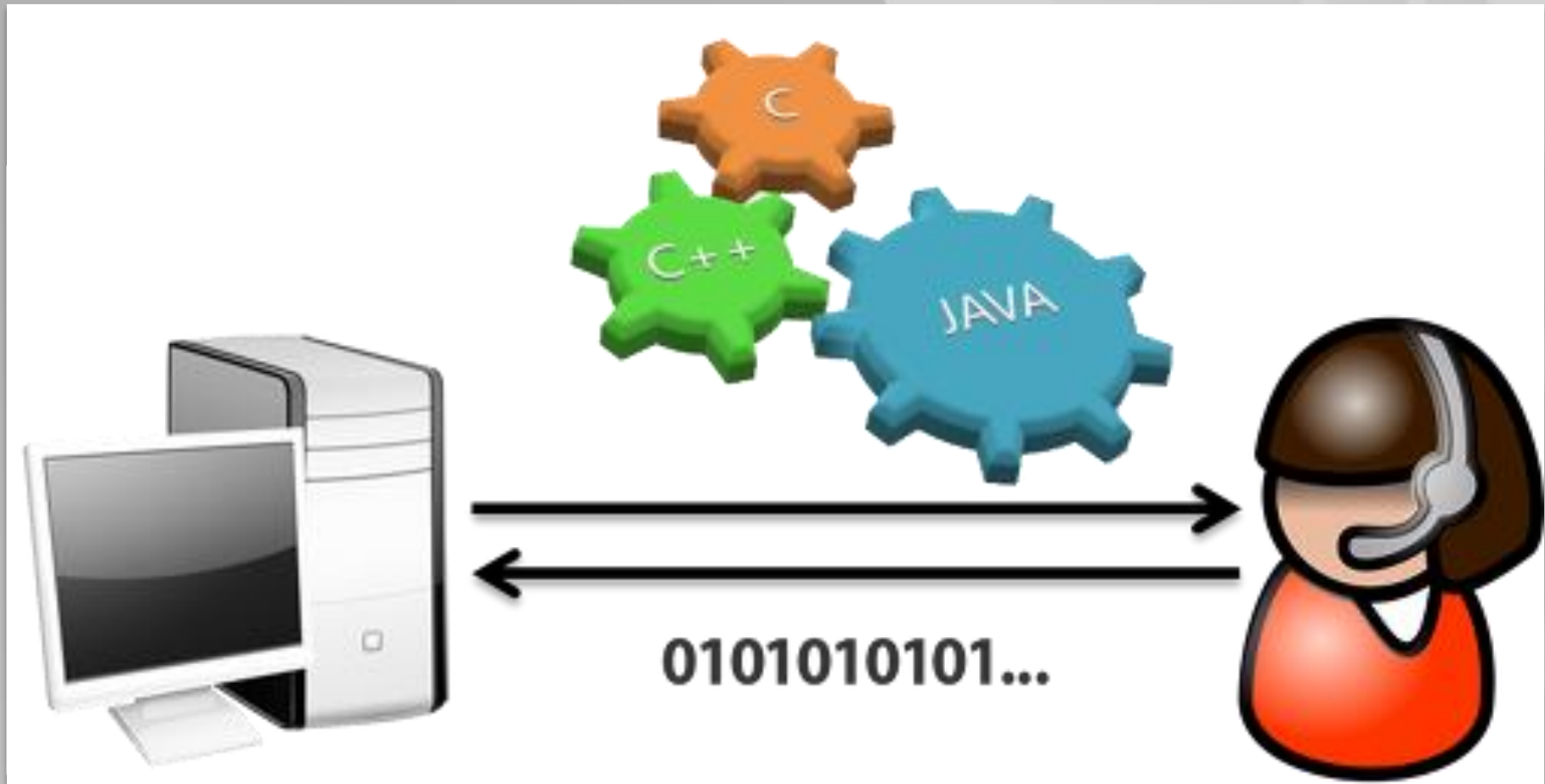
What is Programming?

➢Computer programming is the process of building and designing an executable computer program for accomplishing a specific computing task. (Wikipedia)

➢Set of Order
– Brain (CPU) but, No thinking

➢Make a manual for computer
– How, when and what to work

➢Well-formed manual
– Small mistake -> don't understand

Programming Languages

➢ Machine languages (Human hard to read)

➢ Assembly languages

➢ High-level languages

Human Readable Language

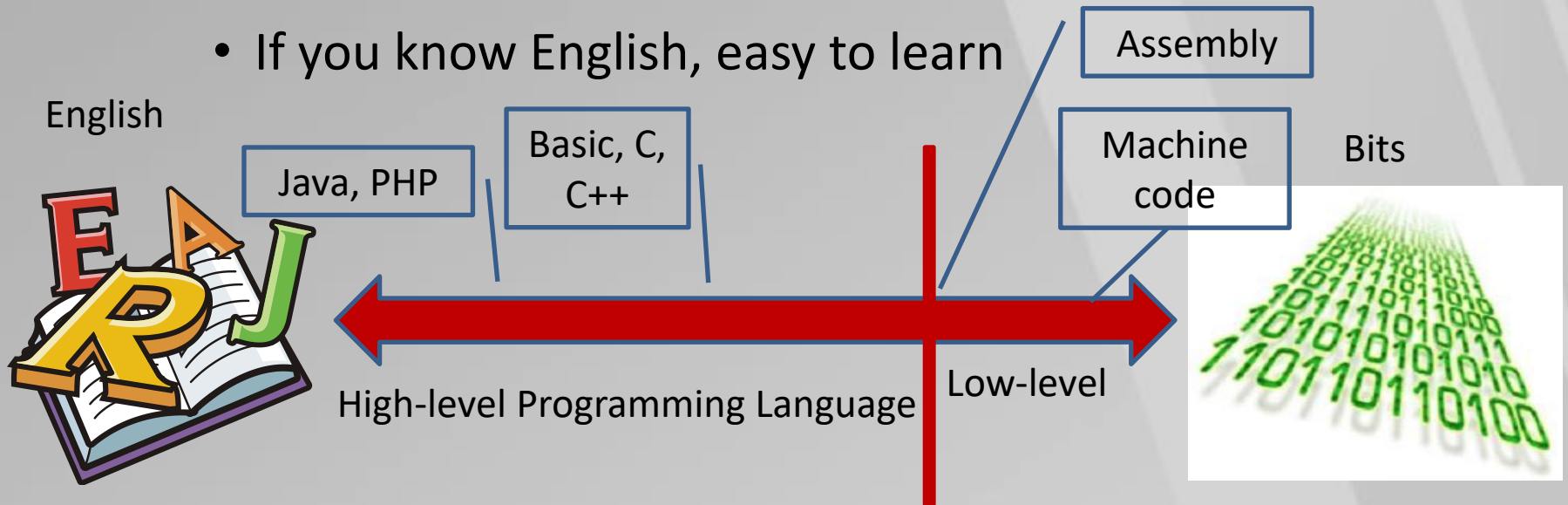| int a =10 | High level language |
MOV AL, 1h	Compiler/Interpreter
	Assembly language
	Assembler
01010100	Machine language
	CPU

➢ Programming language (PL)
  – Low-level PL
    • Machine Code, Assembly
  – High-level PL
    • Basic, C, C++,C#, PHP, Python, etc
    • If you know English, easy to learn

English

Assembly

Java, PHP

Basic, C, C++

Machine code

Bits

High-level Programming Language

Low-level

➢Two major categories

– Procedural programming (or Structured programming) languages

- BASIC, C, FORTRAN, PASCAL etc.

– Object-Oriented languages

- Java, C++, etc.

Summary

➤ Programming Languages
 – Communication between human and computer

➤ High Level PL
 – Human Readable Language
 – JAVA