

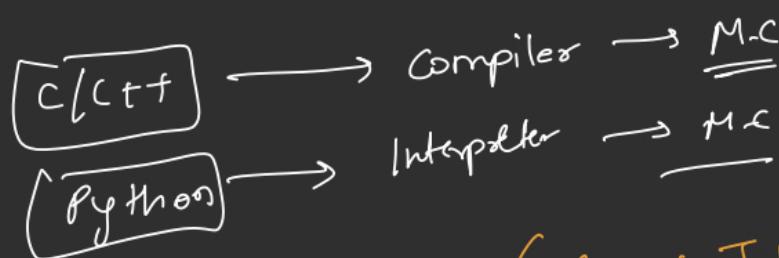
### Interpreter

↳ Convert Code line by line.

### Compiler

↳ Convert Code all at Once.

C/C++ → compiled lang.



Java → Both (Com + Interpreted)

JVM  
 ByteCode → Interpreter → M-C

Java → Com → ByteCode

JVM (Interpreter + JIT)

Earlier Problems

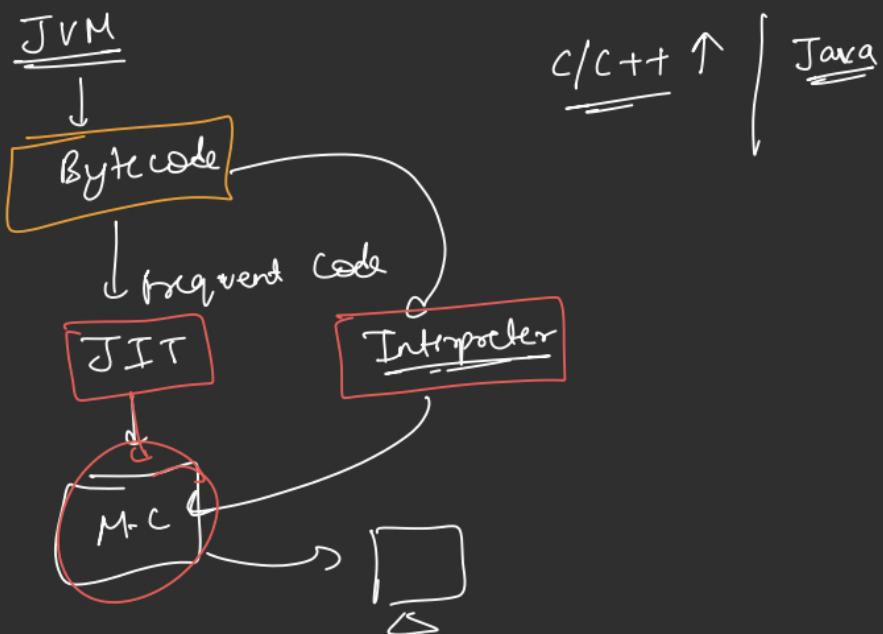
- ↳ (1) CPU slow
- (2) RAM limited
- (3) DISC slow

M-C

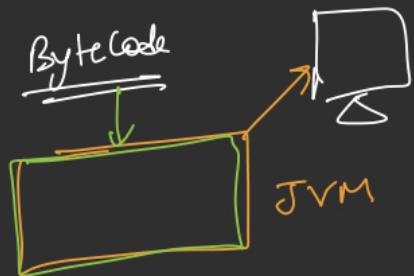


Interpreter + JIT Compiler

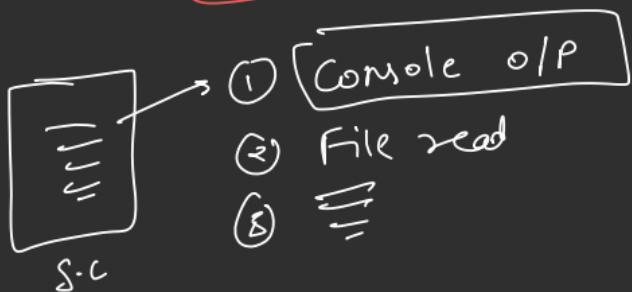
Just-in-time



- JVM
- ① Convert Bytecode to M-C  
(Interpreter + JIT Compiler)
  - ② Security (Sand-box Model)
  - ③ Garbage Collection.



- JRE
- Java Virtual Machine + Class libraries



JDK (Java Development Kit)



