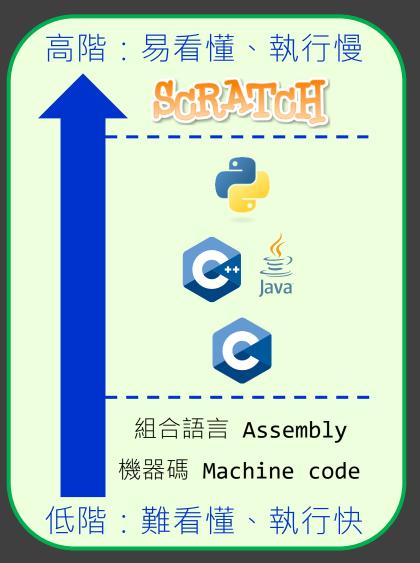
程式語言簡介

TYIC 桃高資訊社

自然語言、標記語言、程式語言

自然語言 程式語言 標記語言 電腦了解的語言 有特定的格式 如:C、C++、 文字加上 Java \ Python 人溝通 一些標記 本身沒有 用的語言 如:英文 其他功能 如:HTML

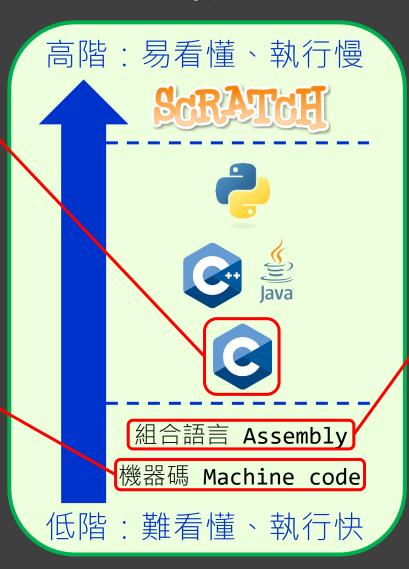
程式語言分高低階越高階人越易看懂但機器執行越慢越低階人越難看懂 但機器執行越快



程式語言

```
#include <stdio.h>
int main(void){
  printf("Hello, World!");
  return 0;
}
```

```
f3 0f 1e fa 48 83 ec 08 48 8b 05 d9 2f 00 00 48
85 c0 74 02 ff d0 48 83 c4 08 c3
ff 35 9a 2f 00 00 f2 ff 25 9b 2f 00 00 0f 1f 00
f3 Of 1e fa 68 00 00 00 00 f2 e9 e1 ff ff ff 90
f3 Of 1e fa f2 ff 25 ad 2f 00 00 Of 1f 44 00 00
f3 Of 1e fa f2 ff 25 75 2f 00 00 Of 1f 44 00 00
f3 0f 1e fa 31 ed 49 89 d1 5e 48 89 e2 48 83 e4
f0 50 54 45 31 c0 31 c9 48 8d 3d ca 00 00 00 ff
15 53 2f 00 00 f4 66 2e 0f 1f 84 00 00 00 00 00
48 8d 3d 79 2f 00 00 48 8d 05 72 2f 00 00 48 39
f8 74 15 48 8b 05 36 2f 00 00 48 85 c0 74 09 ff
e0 0f 1f 80 00 00 00 00 c3 0f 1f 80 00 00 00 00
48 8d 3d 49 2f 00 00 48 8d 35 42 2f 00 00 48 29
fe 48 89 f0 48 c1 ee 3f 48 c1 f8 03 48 01 c6 48
d1 fe 74 14 48 8b 05 05 2f 00 00 48 85 c0 74 08
ff e0 66 0f 1f 44 00 00 c3 0f 1f 80 00 00 00 00
f3 0f 1e fa 80 3d 05 2f 00 00 00 75 2b 55 48 83
3d e2 2e 00 00 00 48 89 e5 74 0c 48 8b 3d e6 2e
00 00 e8 19 ff ff ff e8 64 ff ff c6 05 dd 2e
00 00 01 5d c3 0f 1f 00 c3 0f 1f 80 00 00 00 00
f3 Of 1e fa e9 77 ff ff ff f3 Of 1e fa 48 83 ec
08 48 83 c4 08 c3
```



```
.section .rodata
.string "Hello, World!"
.globl main
.type main, @function
.cfi startproc
endbr64
pushq %rbp
.cfi def_cfa_offset 16
.cfi offset 6, -16
movq %rsp, %rbp
.cfi def cfa register 6
leag .LCO(%rip), %rax
movq %rax, %rdi
movl $0. %eax
call printf@PLT
movl $0, %eax
popq %rbp
.cfi_def_cfa 7, 8
.cfi_endproc
.size main, .-main
.section .note.GNU-stack,"",@progbits
.section .note.gnu.property,"a"
.align 8
.long 5
.string "GNU"
.align 8
.long 0xc0000002
.long 3f - 2f
.long 0x3
.align 8
```

程式語言

