

von Neumann architecture
stored program concept

00000101
1111010
+1

11111011

FF . . . FF FF F B

Little endian byte ordering

"Hello.\n"
newline 0xA

- Instruction format
- Mnemonic, operands

mov rax,10
mov rbx,0x2cd4
↑ ↑
Mnemonic Operands

mov rbx, 0x2cd4
↑ ↑
Destination Source

qword
dword
word
byte

qword[var1]

ADD dest,src
SUB dest,src
INC dest
DEC dest
NEG dest