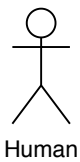


1. Google Drive -> link
2. Slack account
3. Computer (en.)
4. Google Fu (skill - quickly and useful info.)



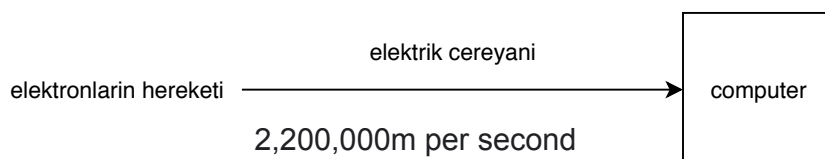
What is programming?

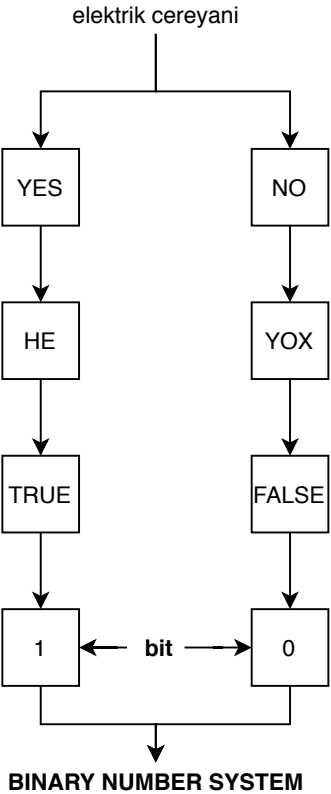


computer

1 second -> 10 operations

1 second -> 1,000,000,000





- 0, 1 → Binary NS
- 0, 1, 2, 3, 4, 5, 6, 7 → Octal NS
- 0, 1, 2, 3, 4, 5, 6, 7, 8, 9 → Decimal NS
- 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, A, B, C, D, E, F → Hexadecimal NS
- 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15

bit -> binary digit bayt -> 8 bit

Decimal NS Binary NS

72 → 01001000

Binary NS Decimal NS

1001000 72

| | | |
|----|---|---|
| 72 | 2 | 0 |
| 36 | 2 | 0 |
| 18 | 2 | 0 |
| 9 | 2 | 1 |
| 4 | 2 | 0 |
| 2 | 2 | 0 |
| 1 | | |

1*64 0*32 0*16 1*8 0*4 0*2 0*1

1 0 0 1 0 0 0

256 128 64 32 16 8 4 2 1

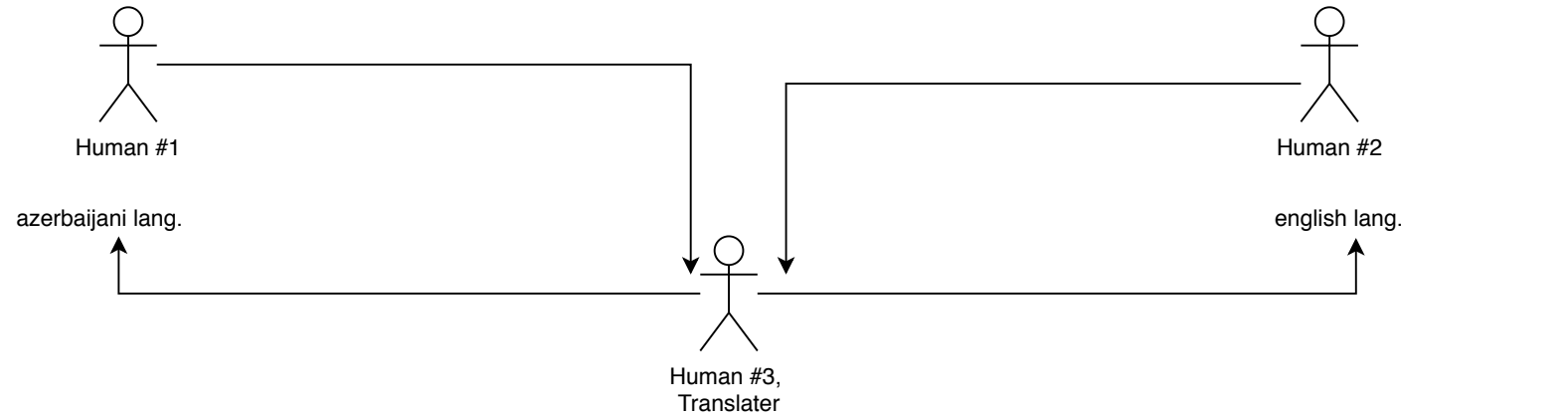
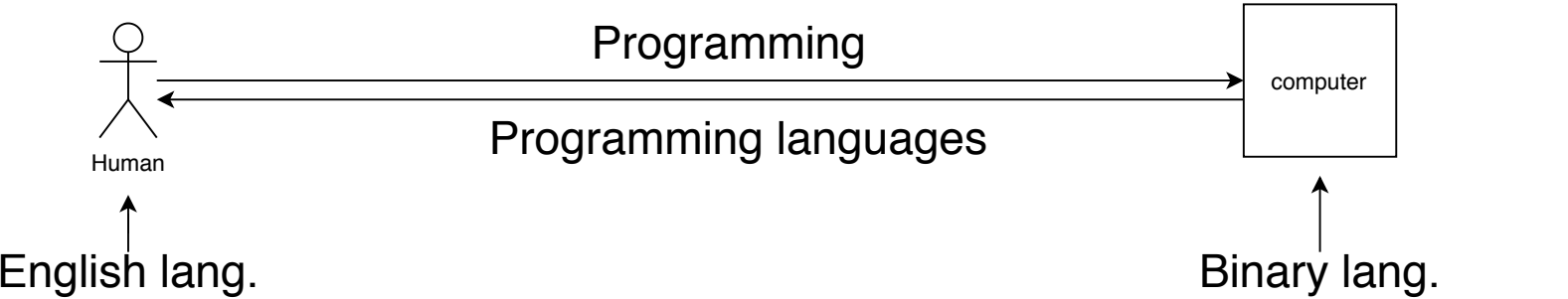
2^8 2^7 2^6 2^5 2^4 2^3 2^2 2^1 2^0

ASCII —————> 1 bayt —————> 8 bit —————> 256

0 0 0 0 0 0 0 0
1 1 1 1 1 1 1 1

UNICODE —————> 2 bayt —————> 16 bit —————> 65,536

0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0




how many programming languages are in the world?



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700 programming languages

The Short Answer. According to Wikipedia, there are about **700 programming languages**, including esoteric coding languages. Other sources that only list notable languages still count up to an impressive 245 languages. Jul 21, 2020

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