```
UTF-8 1 Code point = 1-4 code units, 1 code unit = 2 byte
· Starts with 0: 1 byte = 1 code unit -> We have 7 bits left
                                                            XXXX XXXX
· Starts with 110: 2 bytes = 2 code units -> we have 11 bits left
                                                           XXXX XXXX XOM
· Starts with 1110: 3 bytes = 3 cole units -> we have 16 bits left
                                                           XXXX XXOL XXXX XXOL XXXX ONN
· Starts with 11110: 4 bytes = 4 code units -> we have 21 bits left
                                                            XXXX XXON XXXX XXON XXXX XXON XXXX
Examples:
. MALO 000 ADDIAMA 1000MOL 1000 MAO
                                                           . 1100 1111 1000 0000
                                                             2 bytes code wit
  Ybyle unit code because it starts with 11110
                                                                L3 01/1/100,0000
    L> 0,00 01/11/1 ,001/1/01 00,1/10 case point
                                                                 L> 0x3 0xc 0x0 -> 0+03c0
     Lo caparate into butes
                                                                    Lo Lover case 17
          0x0 0x1 0xF 0x3 0x4 0xE -> U+01F34E
          L> apple emgil (unicole)= U+O1F34E, (UTF-8)= F09F8D8E
                                                           . 00100001
                                                             I hate code unit
 00101011
                                                              L> 010,0001
 1 byte unit code because it stort with a o
                                                                 L> 0x2 0x1 -> U+0021
    L> 010,1011 matches up with ASCUI
                                                                     ا دم
      L> ASCII value is 0x2 0xB -> Ut 002B
          لم دما
+
```

UTF-16 1 code point=1-2 code units, 1 code unit= 2 bytes

- · First code unit starts with 11010 -> We have 11 bits left 1101 1xxx xxxx xxxx
- · Second code unit starts with 1101111 -> We have 10 bits left MO1 11xx xxxx xxxx
- · Cole points under 65536 are in a single code unit

Examples:

ONLINE COO NO LANDOLA COO LO LA COO LA LA COO LA LA COO LA LA COO LA COO

0000,1101,0001,0001,000

DEO OED ON ON ONE -> N+ 0000D11E

unicole = U+ 0000 DAME, UTF-16 = D9340 DAE

UTF-32

1 code point = 1 code unit, 1 code unit = 4 butes

- · Always was 32 bits
- · same value as the character