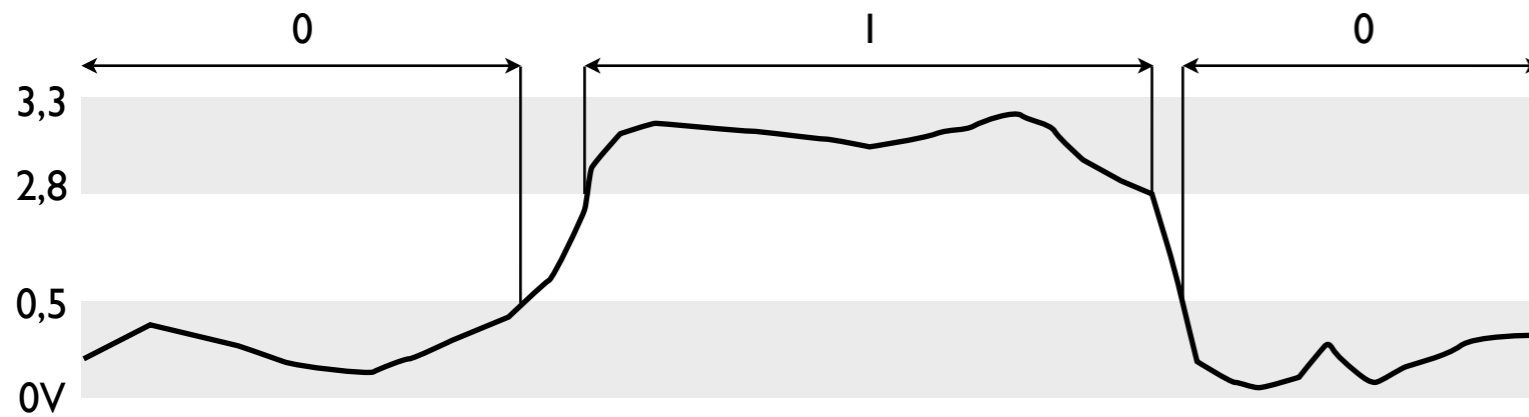


bit

binary digit



John Tuckey, Claude Shannon

| Unités de bits | | | v · d · m | |
|----------------|-------------|-------------------|-----------------|----------|
| Préfixes SI | | Préfixes binaires | | |
| Nom (Symbole) | Standard SI | Usage | Nom (Symbole) | Valeur |
| kilobit (kb) | 10^3 | 2^{10} | kibibit (Kibit) | 2^{10} |
| megabit (Mb) | 10^6 | 2^{20} | mebibit (Mibit) | 2^{20} |
| gigabit (Gb) | 10^9 | 2^{30} | gibibit (Gibit) | 2^{30} |
| terabit (Tb) | 10^{12} | 2^{40} | tebibit (Tibit) | 2^{40} |
| petabit (Pb) | 10^{15} | 2^{50} | pebibit (Pibit) | 2^{50} |
| exabit (Eb) | 10^{18} | 2^{60} | exbibit (Eibit) | 2^{60} |
| zettabit (Zb) | 10^{21} | 2^{70} | zebibit (Zibit) | 2^{70} |
| yottabit (Yb) | 10^{24} | 2^{80} | yobibit (Yibit) | 2^{80} |

Octet 8 bits

01101110

| Multiples d'octets tels que définis par IEC 60027-2 | | | | | |
|--|---------|-----------|-----------------|---------|----------|
| Préfixe SI | | | Préfixe binaire | | |
| Nom | Symbole | Valeur | Nom | Symbole | Valeur |
| kilooctet | ko | 10^3 | kibioctet | Kio | 2^{10} |
| mégaoctet | Mo | 10^6 | mébioctet | Mio | 2^{20} |
| gigaoctet | Go | 10^9 | gibioctet | Gio | 2^{30} |
| téraoctet | To | 10^{12} | tébioctet | Tio | 2^{40} |
| pétaoctet | Po | 10^{15} | pébioctet | Pio | 2^{50} |
| exaoctet | Eo | 10^{18} | exbioctet | Eio | 2^{60} |
| zettaoctet | Zo | 10^{21} | zébioctet | Zio | 2^{70} |
| yottaoctet | Yo | 10^{24} | yobioctet | Yio | 2^{80} |

Bases

- Base dix : 10 chiffres (0, 1, 2, 3, 4, 5, 6, 7, 8, 9)
- Base deux : 2 chiffres (0, 1)
- Base seize : 16 chiffres (hexadécimal)
(0, 1, 2, 3, 4, 5, 6, 7, 8, 9, A, B, C, D, E, F)

Systeme sénédenaire

| | | | | | | | |
|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| d ₇ | d ₆ | d ₅ | d ₄ | d ₃ | d ₂ | d ₁ | d ₀ |
| 0 | 0 | 0 | 3 | 3 | 6 | 4 | 3 |

$$B = 10$$

$$v = \sum_{w=0}^{n-1} d_w B^w$$

$$v = 3 \cdot 10^4 + 3 \cdot 10^3 + 6 \cdot 10^2 + 4 \cdot 10^1 + 3$$

Baudot

| | | | | | | | |
|---------|-------|-----|---------|-----|-----|----------------|------|
| 00 | 01 | 02 | 03 | 04 | 05 | 06 | 07 |
| NUL | E 3 | LF | A - | SP | S ' | I 8 | U 7 |
| 08 | 09 | 0A | 0B | 0C | 0D | 0E | 0F |
| CR | D ENQ | R 4 | J BEL | N , | F ! | C : | K < |
| 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 |
| T 5 | Z + | L > | W 2 | H £ | Y 6 | P 0 | Q 1 |
| 18 | 19 | 1A | 1B | 1C | 1D | 1E | 1F |
| O 9 | B ? | G & | FIGS | M . | X / | V ; | LTRS |
| Letters | | | Figures | | | Control Chars. | |

ASCII

ASCII Code Chart

| | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | A | B | C | D | E | F |
|---|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|-----|-----|----|----|----|-----|
| 0 | NUL | SOH | STX | ETX | EOT | ENQ | ACK | BEL | BS | HT | LF | VT | FF | CR | SO | SI |
| 1 | DLE | DC1 | DC2 | DC3 | DC4 | NAK | SYN | ETB | CAN | EM | SUB | ESC | FS | GS | RS | US |
| 2 | | ! | " | # | \$ | % | & | ' | (|) | * | + | , | - | . | / |
| 3 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | : | ; | < | = | > | ? |
| 4 | @ | A | B | C | D | E | F | G | H | I | J | K | L | M | N | O |
| 5 | P | Q | R | S | T | U | V | W | X | Y | Z | [| \ |] | ^ | _ |
| 6 | ` | a | b | c | d | e | f | g | h | i | j | k | l | m | n | o |
| 7 | p | q | r | s | t | u | v | w | x | y | z | { | | } | ~ | DEL |

ISO-8859-1

| | x0 | x1 | x2 | x3 | x4 | x5 | x6 | x7 | x8 | x9 | xA | xB | xC | xD | xE | xF |
|-----------|------|-----|-----|-----|-----|-----|-----|-----|-----|------|-----|-----|-----|-----|-----|-----|
| 0x | NUL | SOH | STX | ETX | EOT | ENQ | ACK | BEL | BS | HT | LF | VT | FF | CR | SO | SI |
| 1x | DLE | DC1 | DC2 | DC3 | DC4 | NAK | SYN | ETB | CAN | EM | SUB | ESC | FS | GS | RS | US |
| 2x | SP | ! | " | # | \$ | % | & | ' | (|) | * | + | , | - | . | / |
| 3x | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | : | ; | < | = | > | ? |
| 4x | @ | A | B | C | D | E | F | G | H | I | J | K | L | M | N | O |
| 5x | P | Q | R | S | T | U | V | W | X | Y | Z | [| \ |] | ^ | _ |
| 6x | ` | a | b | c | d | e | f | g | h | i | j | k | l | m | n | o |
| 7x | p | q | r | s | t | u | v | w | x | y | z | { | | } | ~ | DEL |
| 8x | PAD | HOP | BPH | NBH | IND | NEL | SSA | ESA | HTS | HTJ | VTS | PLD | PLU | RI | SS2 | SS3 |
| 9x | DCS | PU1 | PU2 | STS | CCH | MW | SPA | EPA | SOS | SGCI | SCI | CSI | ST | OSC | PM | APC |
| Ax | NBSP | ı | ç | £ | ¤ | ¥ | ı | § | ¨ | © | ª | « | ¬ | - | ® | ¯ |
| Bx | ° | ± | ² | ³ | ´ | µ | ¶ | · | ¸ | ¹ | º | » | ¼ | ½ | ¾ | ¿ |
| Cx | À | Á | Â | Ã | Ä | Å | Æ | Ç | È | É | Ê | Ë | Ì | Í | Î | Ï |
| Dx | Ð | Ñ | Ò | Ó | Ô | Õ | Ö | × | Ø | Ù | Ú | Û | Ü | Ý | Þ | ß |
| Ex | à | á | â | ã | ä | å | æ | ç | è | é | ê | ë | ì | í | î | ï |
| Fx | ð | ñ | ò | ó | ô | õ | ö | ÷ | ø | ù | ú | û | ü | ý | þ | ÿ |

UTF-8

Définition du nombre d'octets utilisés

| Représentation binaire UTF-8 | Signification |
|--|------------------------------|
| 0xxxxxxx | 1 octet codant 1 à 7 bits |
| 110xxxxx 10xxxxxx | 2 octets codant 8 à 11 bits |
| 1110xxxx 10xxxxxx 10xxxxxx | 3 octets codant 12 à 16 bits |
| 11110xxx 10xxxxxx 10xxxxxx 10xxxxxx | 4 octets codant 17 à 21 bits |