

# The ASCII code

American Standard Code for Information Interchange

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| ASCII control characters |     |         |                         |
|--------------------------|-----|---------|-------------------------|
| DEC                      | HEX | Simbolo | ASCII                   |
| 00                       | 00h | NULL    | (carácter nulo)         |
| 01                       | 01h | SOH     | (inicio encabezado)     |
| 02                       | 02h | STX     | (inicio texto)          |
| 03                       | 03h | ETX     | (fin de texto)          |
| 04                       | 04h | EOT     | (fin transmisión)       |
| 05                       | 05h | ENQ     | (enquiry)               |
| 06                       | 06h | ACK     | (acknowledgement)       |
| 07                       | 07h | BEL     | (timbre)                |
| 08                       | 08h | BS      | (retroceso)             |
| 09                       | 09h | HT      | (tab horizontal)        |
| 10                       | 0Ah | LF      | (salto de línea)        |
| 11                       | 0Bh | VT      | (tab vertical)          |
| 12                       | 0Ch | FF      | (form feed)             |
| 13                       | 0Dh | CR      | (retorno de carro)      |
| 14                       | 0Eh | SO      | (shift Out)             |
| 15                       | 0Fh | SI      | (shift In)              |
| 16                       | 10h | DLE     | (data link escape)      |
| 17                       | 11h | DC1     | (device control 1)      |
| 18                       | 12h | DC2     | (device control 2)      |
| 19                       | 13h | DC3     | (device control 3)      |
| 20                       | 14h | DC4     | (device control 4)      |
| 21                       | 15h | NAK     | (negative acknowledge.) |
| 22                       | 16h | SYN     | (synchronous idle)      |
| 23                       | 17h | ETB     | (end of trans. block)   |
| 24                       | 18h | CAN     | (cancel)                |
| 25                       | 19h | EM      | (end of medium)         |
| 26                       | 1Ah | SUB     | (substitute)            |
| 27                       | 1Bh | ESC     | (escape)                |
| 28                       | 1Ch | FS      | (file separator)        |
| 29                       | 1Dh | GS      | (group separator)       |
| 30                       | 1Eh | RS      | (record separator)      |
| 31                       | 1Fh | US      | (unit separator)        |
| 127                      | 20h | DEL     | (delete)                |

| ASCII printable characters |     |         |     |     |         |     |     |
|----------------------------|-----|---------|-----|-----|---------|-----|-----|
| DEC                        | HEX | Simbolo | DEC | HEX | Simbolo | DEC | HEX |
| 32                         | 20h | espacio | 64  | 40h | @       | 96  | 60h |
| 33                         | 21h | !       | 65  | 41h | A       | 97  | 61h |
| 34                         | 22h | "       | 66  | 42h | B       | 98  | 62h |
| 35                         | 23h | #       | 67  | 43h | C       | 99  | 63h |
| 36                         | 24h | \$      | 68  | 44h | D       | 100 | 64h |
| 37                         | 25h | %       | 69  | 45h | E       | 101 | 65h |
| 38                         | 26h | &       | 70  | 46h | F       | 102 | 66h |
| 39                         | 27h | '       | 71  | 47h | G       | 103 | 67h |
| 40                         | 28h | (       | 72  | 48h | H       | 104 | 68h |
| 41                         | 29h | )       | 73  | 49h | I       | 105 | 69h |
| 42                         | 2Ah | *       | 74  | 4Ah | J       | 106 | 6Ah |
| 43                         | 2Bh | +       | 75  | 4Bh | K       | 107 | 6Bh |
| 44                         | 2Ch | ,       | 76  | 4Ch | L       | 108 | 6Ch |
| 45                         | 2Dh | -       | 77  | 4Dh | M       | 109 | 6Dh |
| 46                         | 2Eh | .       | 78  | 4Eh | N       | 110 | 6Eh |
| 47                         | 2Fh | /       | 79  | 4Fh | O       | 111 | 6Fh |
| 48                         | 30h | 0       | 80  | 50h | P       | 112 | 70h |
| 49                         | 31h | 1       | 81  | 51h | Q       | 113 | 71h |
| 50                         | 32h | 2       | 82  | 52h | R       | 114 | 72h |
| 51                         | 33h | 3       | 83  | 53h | S       | 115 | 73h |
| 52                         | 34h | 4       | 84  | 54h | T       | 116 | 74h |
| 53                         | 35h | 5       | 85  | 55h | U       | 117 | 75h |
| 54                         | 36h | 6       | 86  | 56h | V       | 118 | 76h |
| 55                         | 37h | 7       | 87  | 57h | W       | 119 | 77h |
| 56                         | 38h | 8       | 88  | 58h | X       | 120 | 78h |
| 57                         | 39h | 9       | 89  | 59h | Y       | 121 | 79h |
| 58                         | 3Ah | :       | 90  | 5Ah | Z       | 122 | 7Ah |
| 59                         | 3Bh | ;       | 91  | 5Bh | [       | 123 | 7Bh |
| 60                         | 3Ch | <       | 92  | 5Ch | \       | 124 | 7Ch |
| 61                         | 3Dh | =       | 93  | 5Dh | ]       | 125 | 7Dh |
| 62                         | 3Eh | >       | 94  | 5Eh | ^       | 126 | 7Eh |
| 63                         | 3Fh | ?       | 95  | 5Fh | _       |     |     |

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| Extended ASCII characters |     |         |     |     |         |     |     |         |     |     |         |     |     |         |
|---------------------------|-----|---------|-----|-----|---------|-----|-----|---------|-----|-----|---------|-----|-----|---------|
| DEC                       | HEX | Simbolo | DEC | HEX | Simbolo | DEC | HEX | Simbolo | DEC | HEX | Simbolo | DEC | HEX | Simbolo |
| 128                       | 80h | Ç       | 160 | A0h | á       | 192 | C0h | Ł       | 224 | E0h | Ó       |     |     |         |
| 129                       | 81h | ü       | 161 | A1h | í       | 193 | C1h | ł       | 225 | E1h | ô       |     |     |         |
| 130                       | 82h | é       | 162 | A2h | ó       | 194 | C2h | Ł       | 226 | E2h | ö       |     |     |         |
| 131                       | 83h | â       | 163 | A3h | ú       | 195 | C3h | ł       | 227 | E3h | õ       |     |     |         |
| 132                       | 84h | ä       | 164 | A4h | ñ       | 196 | C4h | Ł       | 228 | E4h | ö       |     |     |         |
| 133                       | 85h | å       | 165 | A5h | Ñ       | 197 | C5h | ł       | 229 | E5h | õ       |     |     |         |
| 134                       | 86h | à       | 166 | A6h | ª       | 198 | C6h | Ł       | 230 | E6h | ö       |     |     |         |
| 135                       | 87h | ç       | 167 | A7h | º       | 199 | C7h | ł       | 231 | E7h | ü       |     |     |         |
| 136                       | 88h | ê       | 168 | A8h | ¿       | 200 | C8h | Ł       | 232 | E8h | ü       |     |     |         |
| 137                       | 89h | ë       | 169 | A9h | ®       | 201 | C9h | ł       | 233 | E9h | ü       |     |     |         |
| 138                       | 8Ah | è       | 170 | AAh | ™       | 202 | CAh | Ł       | 234 | EAh | ü       |     |     |         |
| 139                       | 8Bh | ï       | 171 | ABh | ½       | 203 | CBh | ł       | 235 | EBh | ü       |     |     |         |
| 140                       | 8Ch | ì       | 172 | ACH | ¼       | 204 | CHh | Ł       | 236 | ECh | ü       |     |     |         |
| 141                       | 8Dh | í       | 173 | ADh | ¼       | 205 | CDh | ł       | 237 | EDh | ü       |     |     |         |
| 142                       | 8Eh | Ā       | 174 | Aeh | »       | 206 | CEh | Ł       | 238 | EEh | ü       |     |     |         |
| 143                       | 8Fh | Ā       | 175 | Afh | »       | 207 | CFh | ł       | 239 | EFh | ü       |     |     |         |
| 144                       | 90h | Ē       | 176 | B0h | »       | 208 | D0h | Ł       | 240 | F0h | ü       |     |     |         |
| 145                       | 91h | æ       | 177 | B1h | »       | 209 | D1h | ł       | 241 | F1h | ü       |     |     |         |
| 146                       | 92h | Æ       | 178 | B2h | »       | 210 | D2h | Ł       | 242 | F2h | ü       |     |     |         |
| 147                       | 93h | ō       | 179 | B3h | »       | 211 | D3h | ł       | 243 | F3h | ü       |     |     |         |
| 148                       | 94h | ö       | 180 | B4h | »       | 212 | D4h | Ł       | 244 | F4h | ü       |     |     |         |
| 149                       | 95h | ö       | 181 | B5h | »       | 213 | D5h | ł       | 245 | F5h | ü       |     |     |         |
| 150                       | 96h | ü       | 182 | B6h | »       | 214 | D6h | Ł       | 246 | F6h | ü       |     |     |         |
| 151                       | 97h | ù       | 183 | B7h | »       | 215 | D7h | ł       | 247 | F7h | ü       |     |     |         |
| 152                       | 98h | ý       | 184 | B8h | »       | 216 | D8h | Ł       | 248 | F8h | ü       |     |     |         |
| 153                       | 99h | ÿ       | 185 | B9h | »       | 217 | D9h | ł       | 249 | F9h | ü       |     |     |         |
| 154                       | 9Ah | Ů       | 186 | BAh | »       | 218 | DAh | Ł       | 250 | FAh | ü       |     |     |         |
| 155                       | 9Bh | ø       | 187 | BBh | »       | 219 | DBh | ł       | 251 | FBh | ü       |     |     |         |
| 156                       | 9Ch | £       | 188 | BCh | »       | 220 | DCh | Ł       | 252 | FCh | ü       |     |     |         |
| 157                       | 9Dh | ø       | 189 | BDh | »       | 221 | DDh | ł       | 253 | FDh | ü       |     |     |         |
| 158                       | 9Eh | ×       | 190 | BEh | »       | 222 | DEh | Ł       | 254 | FEh | ü       |     |     |         |
| 159                       | 9Fh | f       | 191 | BFh | »       | 223 | DFh | ł       | 255 | FFh | ü       |     |     |         |