

# ASCII TABLE

| Decimal | Hexadecimal | Binary | Octal | Char                   | Decimal | Hexadecimal | Binary  | Octal | Char | Decimal | Hexadecimal | Binary  | Octal | Char  |
|---------|-------------|--------|-------|------------------------|---------|-------------|---------|-------|------|---------|-------------|---------|-------|-------|
| 0       | 0           | 0      | 0     | [NULL]                 | 48      | 30          | 110000  | 60    | 0    | 96      | 60          | 1100000 | 140   | `     |
| 1       | 1           | 1      | 1     | [START OF HEADING]     | 49      | 31          | 110001  | 61    | 1    | 97      | 61          | 1100001 | 141   | a     |
| 2       | 2           | 10     | 2     | [START OF TEXT]        | 50      | 32          | 110010  | 62    | 2    | 98      | 62          | 1100010 | 142   | b     |
| 3       | 3           | 11     | 3     | [END OF TEXT]          | 51      | 33          | 110011  | 63    | 3    | 99      | 63          | 1100011 | 143   | c     |
| 4       | 4           | 100    | 4     | [END OF TRANSMISSION]  | 52      | 34          | 110100  | 64    | 4    | 100     | 64          | 1100100 | 144   | d     |
| 5       | 5           | 101    | 5     | [ENQUIRY]              | 53      | 35          | 110101  | 65    | 5    | 101     | 65          | 1100101 | 145   | e     |
| 6       | 6           | 110    | 6     | [ACKNOWLEDGE]          | 54      | 36          | 110110  | 66    | 6    | 102     | 66          | 1100110 | 146   | f     |
| 7       | 7           | 111    | 7     | [BELL]                 | 55      | 37          | 110111  | 67    | 7    | 103     | 67          | 1100111 | 147   | g     |
| 8       | 8           | 1000   | 10    | [BACKSPACE]            | 56      | 38          | 111000  | 70    | 8    | 104     | 68          | 1101000 | 150   | h     |
| 9       | 9           | 1001   | 11    | [HORIZONTAL TAB]       | 57      | 39          | 111001  | 71    | 9    | 105     | 69          | 1101001 | 151   | i     |
| 10      | A           | 1010   | 12    | [LINE FEED]            | 58      | 3A          | 111010  | 72    | :    | 106     | 6A          | 1101010 | 152   | j     |
| 11      | B           | 1011   | 13    | [VERTICAL TAB]         | 59      | 3B          | 111011  | 73    | ;    | 107     | 6B          | 1101011 | 153   | k     |
| 12      | C           | 1100   | 14    | [FORM FEED]            | 60      | 3C          | 111100  | 74    | <    | 108     | 6C          | 1101100 | 154   | l     |
| 13      | D           | 1101   | 15    | [CARRIAGE RETURN]      | 61      | 3D          | 111101  | 75    | =    | 109     | 6D          | 1101101 | 155   | m     |
| 14      | E           | 1110   | 16    | [SHIFT OUT]            | 62      | 3E          | 111110  | 76    | >    | 110     | 6E          | 1101110 | 156   | n     |
| 15      | F           | 1111   | 17    | [SHIFT IN]             | 63      | 3F          | 111111  | 77    | ?    | 111     | 6F          | 1101111 | 157   | o     |
| 16      | 10          | 10000  | 20    | [DATA LINK ESCAPE]     | 64      | 40          | 1000000 | 100   | @    | 112     | 70          | 1110000 | 160   | p     |
| 17      | 11          | 10001  | 21    | [DEVICE CONTROL 1]     | 65      | 41          | 1000001 | 101   | A    | 113     | 71          | 1110001 | 161   | q     |
| 18      | 12          | 10010  | 22    | [DEVICE CONTROL 2]     | 66      | 42          | 1000010 | 102   | B    | 114     | 72          | 1110010 | 162   | r     |
| 19      | 13          | 10011  | 23    | [DEVICE CONTROL 3]     | 67      | 43          | 1000011 | 103   | C    | 115     | 73          | 1110011 | 163   | s     |
| 20      | 14          | 10100  | 24    | [DEVICE CONTROL 4]     | 68      | 44          | 1000100 | 104   | D    | 116     | 74          | 1110100 | 164   | t     |
| 21      | 15          | 10101  | 25    | [NEGATIVE ACKNOWLEDGE] | 69      | 45          | 1000101 | 105   | E    | 117     | 75          | 1110101 | 165   | u     |
| 22      | 16          | 10110  | 26    | [SYNCHRONOUS IDLE]     | 70      | 46          | 1000110 | 106   | F    | 118     | 76          | 1110110 | 166   | v     |
| 23      | 17          | 10111  | 27    | [END OF TRANS. BLOCK]  | 71      | 47          | 1000111 | 107   | G    | 119     | 77          | 1110111 | 167   | w     |
| 24      | 18          | 11000  | 30    | [CANCEL]               | 72      | 48          | 1001000 | 110   | H    | 120     | 78          | 1111000 | 170   | x     |
| 25      | 19          | 11001  | 31    | [END OF MEDIUM]        | 73      | 49          | 1001001 | 111   | I    | 121     | 79          | 1111001 | 171   | y     |
| 26      | 1A          | 11010  | 32    | [SUBSTITUTE]           | 74      | 4A          | 1001010 | 112   | J    | 122     | 7A          | 1111010 | 172   | z     |
| 27      | 1B          | 11011  | 33    | [ESCAPE]               | 75      | 4B          | 1001011 | 113   | K    | 123     | 7B          | 1111011 | 173   | {     |
| 28      | 1C          | 11100  | 34    | [FILE SEPARATOR]       | 76      | 4C          | 1001100 | 114   | L    | 124     | 7C          | 1111100 | 174   |       |
| 29      | 1D          | 11101  | 35    | [GROUP SEPARATOR]      | 77      | 4D          | 1001101 | 115   | M    | 125     | 7D          | 1111101 | 175   | }     |
| 30      | 1E          | 11110  | 36    | [RECORD SEPARATOR]     | 78      | 4E          | 1001110 | 116   | N    | 126     | 7E          | 1111110 | 176   | ~     |
| 31      | 1F          | 11111  | 37    | [UNIT SEPARATOR]       | 79      | 4F          | 1001111 | 117   | O    | 127     | 7F          | 1111111 | 177   | [DEL] |
| 32      | 20          | 100000 | 40    | [SPACE]                | 80      | 50          | 1010000 | 120   | P    |         |             |         |       |       |
| 33      | 21          | 100001 | 41    | !                      | 81      | 51          | 1010001 | 121   | Q    |         |             |         |       |       |
| 34      | 22          | 100010 | 42    | "                      | 82      | 52          | 1010010 | 122   | R    |         |             |         |       |       |
| 35      | 23          | 100011 | 43    | #                      | 83      | 53          | 1010011 | 123   | S    |         |             |         |       |       |
| 36      | 24          | 100100 | 44    | \$                     | 84      | 54          | 1010100 | 124   | T    |         |             |         |       |       |
| 37      | 25          | 100101 | 45    | %                      | 85      | 55          | 1010101 | 125   | U    |         |             |         |       |       |
| 38      | 26          | 100110 | 46    | &                      | 86      | 56          | 1010110 | 126   | V    |         |             |         |       |       |
| 39      | 27          | 100111 | 47    | '                      | 87      | 57          | 1010111 | 127   | W    |         |             |         |       |       |
| 40      | 28          | 101000 | 50    | (                      | 88      | 58          | 1011000 | 130   | X    |         |             |         |       |       |
| 41      | 29          | 101001 | 51    | )                      | 89      | 59          | 1011001 | 131   | Y    |         |             |         |       |       |
| 42      | 2A          | 101010 | 52    | *                      | 90      | 5A          | 1011010 | 132   | Z    |         |             |         |       |       |
| 43      | 2B          | 101011 | 53    | +                      | 91      | 5B          | 1011011 | 133   | [    |         |             |         |       |       |
| 44      | 2C          | 101100 | 54    | ,                      | 92      | 5C          | 1011100 | 134   | \    |         |             |         |       |       |
| 45      | 2D          | 101101 | 55    | -                      | 93      | 5D          | 1011101 | 135   | ]    |         |             |         |       |       |
| 46      | 2E          | 101110 | 56    | .                      | 94      | 5E          | 1011110 | 136   | ^    |         |             |         |       |       |
| 47      | 2F          | 101111 | 57    | /                      | 95      | 5F          | 1011111 | 137   | _    |         |             |         |       |       |