

# Table of ASCII Characters

Characters which appear as names in parentheses (*e.g.*, (nl)) are non-printing characters.

| Char  | Dec | Oct  | Hex  | Char | Dec | Oct  | Hex  | Description    | C Escape Sequence |
|-------|-----|------|------|------|-----|------|------|----------------|-------------------|
| (nul) | 0   | 0000 | 0x00 | (sp) | 32  | 0040 | 0x20 | null byte      | \0                |
| (soh) | 1   | 0001 | 0x01 | !    | 33  | 0041 | 0x21 |                |                   |
| (stx) | 2   | 0002 | 0x02 | "    | 34  | 0042 | 0x22 |                |                   |
| (etx) | 3   | 0003 | 0x03 | #    | 35  | 0043 | 0x23 |                |                   |
| (eot) | 4   | 0004 | 0x04 | \$   | 36  | 0044 | 0x24 |                |                   |
| (enq) | 5   | 0005 | 0x05 | %    | 37  | 0045 | 0x25 |                |                   |
| (ack) | 6   | 0006 | 0x06 | &    | 38  | 0046 | 0x26 |                |                   |
| (bel) | 7   | 0007 | 0x07 | '    | 39  | 0047 | 0x27 | bell character | \a                |
| (bs)  | 8   | 0010 | 0x08 | (    | 40  | 0050 | 0x28 | backspace      | \b                |
| (ht)  | 9   | 0011 | 0x09 | )    | 41  | 0051 | 0x29 | horizontal tab | \t                |
| (nl)  | 10  | 0012 | 0x0a | *    | 42  | 0052 | 0x2a | new line       | \n                |
| (vt)  | 11  | 0013 | 0x0b | +    | 43  | 0053 | 0x2b |                |                   |
| (np)  | 12  | 0014 | 0x0c | ,    | 44  | 0054 | 0x2c |                |                   |
| (cr)  | 13  | 0015 | 0x0d | -    | 45  | 0055 | 0x2d |                |                   |
| (so)  | 14  | 0016 | 0x0e | .    | 46  | 0056 | 0x2e |                |                   |
| (si)  | 15  | 0017 | 0x0f | /    | 47  | 0057 | 0x2f |                |                   |
| (dle) | 16  | 0020 | 0x10 | 0    | 48  | 0060 | 0x30 |                |                   |
| (dc1) | 17  | 0021 | 0x11 | 1    | 49  | 0061 | 0x31 |                |                   |
| (dc2) | 18  | 0022 | 0x12 | 2    | 50  | 0062 | 0x32 |                |                   |
| (dc3) | 19  | 0023 | 0x13 | 3    | 51  | 0063 | 0x33 |                |                   |
| (dc4) | 20  | 0024 | 0x14 | 4    | 52  | 0064 | 0x34 |                |                   |
| (nak) | 21  | 0025 | 0x15 | 5    | 53  | 0065 | 0x35 |                |                   |
| (syn) | 22  | 0026 | 0x16 | 6    | 54  | 0066 | 0x36 |                |                   |
| (etb) | 23  | 0027 | 0x17 | 7    | 55  | 0067 | 0x37 |                |                   |
| (can) | 24  | 0030 | 0x18 | 8    | 56  | 0070 | 0x38 |                |                   |
| (em)  | 25  | 0031 | 0x19 | 9    | 57  | 0071 | 0x39 |                |                   |
| (sub) | 26  | 0032 | 0x1a | :    | 58  | 0072 | 0x3a |                |                   |
| (esc) | 27  | 0033 | 0x1b | ;    | 59  | 0073 | 0x3b |                |                   |
| (fs)  | 28  | 0034 | 0x1c | <    | 60  | 0074 | 0x3c |                |                   |
| (gs)  | 29  | 0035 | 0x1d | =    | 61  | 0075 | 0x3d |                |                   |
| (rs)  | 30  | 0036 | 0x1e | >    | 62  | 0076 | 0x3e |                |                   |
| (us)  | 31  | 0037 | 0x1f | ?    | 63  | 0077 | 0x3f |                |                   |

| Char | Dec | Oct  | Hex  | Char  | Dec | Oct  | Hex  |
|------|-----|------|------|-------|-----|------|------|
| @    | 64  | 0100 | 0x40 | `     | 96  | 0140 | 0x60 |
| A    | 65  | 0101 | 0x41 | a     | 97  | 0141 | 0x61 |
| B    | 66  | 0102 | 0x42 | b     | 98  | 0142 | 0x62 |
| C    | 67  | 0103 | 0x43 | c     | 99  | 0143 | 0x63 |
| D    | 68  | 0104 | 0x44 | d     | 100 | 0144 | 0x64 |
| E    | 69  | 0105 | 0x45 | e     | 101 | 0145 | 0x65 |
| F    | 70  | 0106 | 0x46 | f     | 102 | 0146 | 0x66 |
| G    | 71  | 0107 | 0x47 | g     | 103 | 0147 | 0x67 |
| H    | 72  | 0110 | 0x48 | h     | 104 | 0150 | 0x68 |
| I    | 73  | 0111 | 0x49 | i     | 105 | 0151 | 0x69 |
| J    | 74  | 0112 | 0x4a | j     | 106 | 0152 | 0x6a |
| K    | 75  | 0113 | 0x4b | k     | 107 | 0153 | 0x6b |
| L    | 76  | 0114 | 0x4c | l     | 108 | 0154 | 0x6c |
| M    | 77  | 0115 | 0x4d | m     | 109 | 0155 | 0x6d |
| N    | 78  | 0116 | 0x4e | n     | 110 | 0156 | 0x6e |
| O    | 79  | 0117 | 0x4f | o     | 111 | 0157 | 0x6f |
| P    | 80  | 0120 | 0x50 | p     | 112 | 0160 | 0x70 |
| Q    | 81  | 0121 | 0x51 | q     | 113 | 0161 | 0x71 |
| R    | 82  | 0122 | 0x52 | r     | 114 | 0162 | 0x72 |
| S    | 83  | 0123 | 0x53 | s     | 115 | 0163 | 0x73 |
| T    | 84  | 0124 | 0x54 | t     | 116 | 0164 | 0x74 |
| U    | 85  | 0125 | 0x55 | u     | 117 | 0165 | 0x75 |
| V    | 86  | 0126 | 0x56 | v     | 118 | 0166 | 0x76 |
| W    | 87  | 0127 | 0x57 | w     | 119 | 0167 | 0x77 |
| X    | 88  | 0130 | 0x58 | x     | 120 | 0170 | 0x78 |
| Y    | 89  | 0131 | 0x59 | y     | 121 | 0171 | 0x79 |
| Z    | 90  | 0132 | 0x5a | z     | 122 | 0172 | 0x7a |
| [    | 91  | 0133 | 0x5b | {     | 123 | 0173 | 0x7b |
| \    | 92  | 0134 | 0x5c |       | 124 | 0174 | 0x7c |
| ]    | 93  | 0135 | 0x5d | }     | 125 | 0175 | 0x7d |
| ^    | 94  | 0136 | 0x5e | ~     | 126 | 0176 | 0x7e |
| _    | 95  | 0137 | 0x5f | (del) | 127 | 0177 | 0x7f |