



# ASCII Table

## Non-Printing Characters

## Printing Characters

| Name              | Ctrl char | Dec | Hex | Char | Dec | Hex | Char  | Dec | Hex | Char | Dec | Hex | Char |
|-------------------|-----------|-----|-----|------|-----|-----|-------|-----|-----|------|-----|-----|------|
| null              | ctrl-@    | 0   | 00  | NUL  | 32  | 20  | Space | 64  | 40  | @    | 96  | 60  | `    |
| start of heading  | ctrl-A    | 1   | 01  | SOH  | 33  | 21  | !     | 65  | 41  | A    | 97  | 61  | a    |
| start of text     | ctrl-B    | 2   | 02  | STX  | 34  | 22  | "     | 66  | 42  | B    | 98  | 62  | b    |
| end of text       | ctrl-C    | 3   | 03  | ETX  | 35  | 23  | #     | 67  | 43  | C    | 99  | 63  | c    |
| end of xmit       | ctrl-D    | 4   | 04  | EOT  | 36  | 24  | \$    | 68  | 44  | D    | 100 | 64  | d    |
| enquiry           | ctrl-E    | 5   | 05  | ENQ  | 37  | 25  | %     | 69  | 45  | E    | 101 | 65  | e    |
| acknowledge       | ctrl-F    | 6   | 06  | ACK  | 38  | 26  | &     | 70  | 46  | F    | 102 | 66  | f    |
| bell              | ctrl-G    | 7   | 07  | BEL  | 39  | 27  | '     | 71  | 47  | G    | 103 | 67  | g    |
| backspace         | ctrl-H    | 8   | 08  | BS   | 40  | 28  | (     | 72  | 48  | H    | 104 | 68  | h    |
| horizontal tab    | ctrl-I    | 9   | 09  | HT   | 41  | 29  | )     | 73  | 49  | I    | 105 | 69  | i    |
| line feed         | ctrl-J    | 10  | 0A  | LF   | 42  | 2A  | *     | 74  | 4A  | J    | 106 | 6A  | j    |
| vertical tab      | ctrl-K    | 11  | 0B  | VT   | 43  | 2B  | +     | 75  | 4B  | K    | 107 | 6B  | k    |
| form feed         | ctrl-L    | 12  | 0C  | FF   | 44  | 2C  | ,     | 76  | 4C  | L    | 108 | 6C  | l    |
| carriage feed     | ctrl-M    | 13  | 0D  | CR   | 45  | 2D  | -     | 77  | 4D  | M    | 109 | 6D  | m    |
| shift out         | ctrl-N    | 14  | 0E  | SO   | 46  | 2E  | .     | 78  | 4E  | N    | 110 | 6E  | n    |
| shift in          | ctrl-O    | 15  | 0F  | SI   | 47  | 2F  | /     | 79  | 4F  | O    | 111 | 6F  | o    |
| data line escape  | ctrl-P    | 16  | 10  | DLE  | 48  | 30  | 0     | 80  | 50  | P    | 112 | 70  | p    |
| device control 1  | ctrl-Q    | 17  | 11  | DC1  | 49  | 31  | 1     | 81  | 51  | Q    | 113 | 71  | q    |
| device control 2  | ctrl-R    | 18  | 12  | DC2  | 50  | 32  | 2     | 82  | 52  | R    | 114 | 72  | r    |
| device control 3  | ctrl-S    | 19  | 13  | DC3  | 51  | 33  | 3     | 83  | 53  | S    | 115 | 73  | s    |
| device control 4  | ctrl-T    | 20  | 14  | DC4  | 52  | 34  | 4     | 84  | 54  | T    | 116 | 74  | t    |
| neg acknowledge   | ctrl-U    | 21  | 15  | NAK  | 53  | 35  | 5     | 85  | 55  | U    | 117 | 75  | u    |
| synchronous idel  | ctrl-V    | 22  | 16  | SYN  | 54  | 36  | 6     | 86  | 56  | V    | 118 | 76  | v    |
| end of xmit block | ctrl-W    | 23  | 17  | ETB  | 55  | 37  | 7     | 87  | 57  | W    | 119 | 77  | w    |
| cancel            | ctrl-X    | 24  | 18  | CAN  | 56  | 38  | 8     | 88  | 58  | X    | 120 | 78  | x    |
| end of medium     | ctrl-Y    | 25  | 19  | EM   | 57  | 39  | 9     | 89  | 59  | Y    | 121 | 79  | y    |
| substitute        | ctrl-Z    | 26  | 1A  | SUB  | 58  | 3A  | :     | 90  | 5A  | Z    | 122 | 7A  | z    |
| escape            | ctrl-[    | 27  | 1B  | ESC  | 59  | 3B  | ;     | 91  | 5B  | [    | 123 | 7B  | {    |
| file separator    | ctrl-\    | 28  | 1C  | FS   | 60  | 3C  | <     | 92  | 5C  | \    | 124 | 7C  |      |
| group separator   | ctrl-]    | 29  | 1D  | GS   | 61  | 3D  | =     | 93  | 5D  | ]    | 125 | 7D  | }    |
| record separator  | ctrl-^    | 30  | 1E  | RS   | 62  | 3E  | >     | 94  | 5E  | ^    | 126 | 7E  | ~    |
| unit separator    | ctrl-__   | 31  | 1F  | US   | 63  | 3F  | ?     | 95  | 5F  | _    | 127 | 7F  | DEL  |

"<http://www.physics.udel.edu/~watson/scen103/ascii.html>"

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