

# ASCII Code - The extended ASCII table

**ASCII**, stands for American Standard Code for Information Interchange. It's a 7-bit character code where every single bit represents a unique character. On this webpage you will find 8 bits, 256 characters, ASCII table according to Windows-1252 (code page 1252) which is a superset of ISO 8859-1 in terms of printable characters.

## ASCII control characters (character code 0-31)

The first 32 characters in the ASCII-table are unprintable control codes and are used to control peripherals such as printers.

| DEC | HEX | Symbol | HTML Number | HTML Name | Description                  |
|-----|-----|--------|-------------|-----------|------------------------------|
| 0   | 00  | NUL    | &#000;      |           | Null char                    |
| 1   | 01  | SOH    | &#001;      |           | Start of Heading             |
| 2   | 02  | STX    | &#002;      |           | Start of Text                |
| 3   | 03  | ETX    | &#003;      |           | End of Text                  |
| 4   | 04  | EOT    | &#004;      |           | End of Transmission          |
| 5   | 05  | ENQ    | &#005;      |           | Enquiry                      |
| 6   | 06  | ACK    | &#006;      |           | Acknowledgment               |
| 7   | 07  | BEL    | &#007;      |           | Bell                         |
| 8   | 08  | BS     | &#008;      |           | Back Space                   |
| 9   | 09  | HT     | &#009;      |           | Horizontal Tab               |
| 10  | 0A  | LF     | &#010;      |           | Line Feed                    |
| 11  | 0B  | VT     | &#011;      |           | Vertical Tab                 |
| 12  | 0C  | FF     | &#012;      |           | Form Feed                    |
| 13  | 0D  | CR     | &#013;      |           | Carriage Return              |
| 14  | 0E  | SO     | &#014;      |           | Shift Out / X-On             |
| 15  | 0F  | SI     | &#015;      |           | Shift In / X-Off             |
| 16  | 10  | DLE    | &#016;      |           | Data Line Escape             |
| 17  | 11  | DC1    | &#017;      |           | Device Control 1 (oft. XON)  |
| 18  | 12  | DC2    | &#018;      |           | Device Control 2             |
| 19  | 13  | DC3    | &#019;      |           | Device Control 3 (oft. XOFF) |

| DEC | HEX | Symbol | HTML Number | HTML Name | Description              |
|-----|-----|--------|-------------|-----------|--------------------------|
| 20  | 14  | DC4    | &#020;      |           | Device Control 4         |
| 21  | 15  | NAK    | &#021;      |           | Negative Acknowledgement |
| 22  | 16  | SYN    | &#022;      |           | Synchronous Idle         |
| 23  | 17  | ETB    | &#023;      |           | End of Transmit Block    |
| 24  | 18  | CAN    | &#024;      |           | Cancel                   |
| 25  | 19  | EM     | &#025;      |           | End of Medium            |
| 26  | 1A  | SUB    | &#026;      |           | Substitute               |
| 27  | 1B  | ESC    | &#027;      |           | Escape                   |
| 28  | 1C  | FS     | &#028;      |           | File Separator           |
| 29  | 1D  | GS     | &#029;      |           | Group Separator          |
| 30  | 1E  | RS     | &#030;      |           | Record Separator         |
| 31  | 1F  | US     | &#031;      |           | Unit Separator           |

## ASCII printable characters (character code 32-127)

Codes 32-127 are common for all the different variations of the ASCII table, they are called printable characters, represent letters, digits, punctuation marks, and a few miscellaneous symbols. You will find almost every character on your keyboard. Character 127 represents the command DEL.

| DEC | HEX | Symbol | HTML Number | HTML Name | Description                          |
|-----|-----|--------|-------------|-----------|--------------------------------------|
| 32  | 20  |        | &#32;       |           | Space                                |
| 33  | 21  | !      | &#33;       |           | Exclamation mark                     |
| 34  | 22  | "      | &#34;       | &quot;    | Double quotes (or speech marks)      |
| 35  | 23  | #      | &#35;       |           | Number                               |
| 36  | 24  | \$     | &#36;       |           | Dollar                               |
| 37  | 25  | %      | &#37;       |           | Per cent sign                        |
| 38  | 26  | &      | &#38;       | &amp;     | Ampersand                            |
| 39  | 27  | '      | &#39;       |           | Single quote                         |
| 40  | 28  | (      | &#40;       |           | Open parenthesis (or open bracket)   |
| 41  | 29  | )      | &#41;       |           | Close parenthesis (or close bracket) |
| 42  | 2A  | *      | &#42;       |           | Asterisk                             |
| 43  | 2B  | +      | &#43;       |           | Plus                                 |
| 44  | 2C  | ,      | &#44;       |           | Comma                                |
| 45  | 2D  | -      | &#45;       |           | Hyphen                               |
| 46  | 2E  | .      | &#46;       |           | Period, dot or full stop             |
| 47  | 2F  | /      | &#47;       |           | Slash or divide                      |
| 48  | 30  | 0      | &#48;       |           | Zero                                 |
| 49  | 31  | 1      | &#49;       |           | One                                  |
| 50  | 32  | 2      | &#50;       |           | Two                                  |
| 51  | 33  | 3      | &#51;       |           | Three                                |
| 52  | 34  | 4      | &#52;       |           | Four                                 |
| 53  | 35  | 5      | &#53;       |           | Five                                 |
| 54  | 36  | 6      | &#54;       |           | Six                                  |
| 55  | 37  | 7      | &#55;       |           | Seven                                |
| 56  | 38  | 8      | &#56;       |           | Eight                                |
| 57  | 39  | 9      | &#57;       |           | Nine                                 |

| DEC | HEX | Symbol | HTML Number | HTML Name | Description                            |
|-----|-----|--------|-------------|-----------|--|
| 58  | 3A  | :      | &#58;       |           | Colon                                  |
| 59  | 3B  | ;      | &#59;       |           | Semicolon                              |
| 60  | 3C  | <      | &#60;       | &lt;      | Less than (or open angled bracket)     |
| 61  | 3D  | =      | &#61;       |           | Equals                                 |
| 62  | 3E  | >      | &#62;       | &gt;      | Greater than (or close angled bracket) |
| 63  | 3F  | ?      | &#63;       |           | Question mark                          |
| 64  | 40  | @      | &#64;       |           | At symbol                              |
| 65  | 41  | A      | &#65;       |           | Uppercase A                            |
| 66  | 42  | B      | &#66;       |           | Uppercase B                            |
| 67  | 43  | C      | &#67;       |           | Uppercase C                            |
| 68  | 44  | D      | &#68;       |           | Uppercase D                            |
| 69  | 45  | E      | &#69;       |           | Uppercase E                            |
| 70  | 46  | F      | &#70;       |           | Uppercase F                            |
| 71  | 47  | G      | &#71;       |           | Uppercase G                            |
| 72  | 48  | H      | &#72;       |           | Uppercase H                            |
| 73  | 49  | I      | &#73;       |           | Uppercase I                            |
| 74  | 4A  | J      | &#74;       |           | Uppercase J                            |
| 75  | 4B  | K      | &#75;       |           | Uppercase K                            |
| 76  | 4C  | L      | &#76;       |           | Uppercase L                            |
| 77  | 4D  | M      | &#77;       |           | Uppercase M                            |
| 78  | 4E  | N      | &#78;       |           | Uppercase N                            |
| 79  | 4F  | O      | &#79;       |           | Uppercase O                            |
| 80  | 50  | P      | &#80;       |           | Uppercase P                            |
| 81  | 51  | Q      | &#81;       |           | Uppercase Q                            |
| 82  | 52  | R      | &#82;       |           | Uppercase R                            |
| 83  | 53  | S      | &#83;       |           | Uppercase S                            |
| 84  | 54  | T      | &#84;       |           | Uppercase T                            |
| 85  | 55  | U      | &#85;       |           | Uppercase U                            |
| 86  | 56  | V      | &#86;       |           | Uppercase V                            |
| 87  | 57  | W      | &#87;       |           | Uppercase W                            |

| DEC | HEX | Symbol | HTML Number | HTML Name | Description        |
|-----|-----|--------|-------------|-----------|--------------------|
| 88  | 58  | X      | &#88;       |           | Uppercase X        |
| 89  | 59  | Y      | &#89;       |           | Uppercase Y        |
| 90  | 5A  | Z      | &#90;       |           | Uppercase Z        |
| 91  | 5B  | [      | &#91;       |           | Opening bracket    |
| 92  | 5C  | \      | &#92;       |           | Backslash          |
| 93  | 5D  | ]      | &#93;       |           | Closing bracket    |
| 94  | 5E  | ^      | &#94;       |           | Caret - circumflex |
| 95  | 5F  | _      | &#95;       |           | Underscore         |
| 96  | 60  | `      | &#96;       |           | Grave accent       |
| 97  | 61  | a      | &#97;       |           | Lowercase a        |
| 98  | 62  | b      | &#98;       |           | Lowercase b        |
| 99  | 63  | c      | &#99;       |           | Lowercase c        |
| 100 | 64  | d      | &#100;      |           | Lowercase d        |
| 101 | 65  | e      | &#101;      |           | Lowercase e        |
| 102 | 66  | f      | &#102;      |           | Lowercase f        |
| 103 | 67  | g      | &#103;      |           | Lowercase g        |
| 104 | 68  | h      | &#104;      |           | Lowercase h        |
| 105 | 69  | i      | &#105;      |           | Lowercase i        |
| 106 | 6A  | j      | &#106;      |           | Lowercase j        |
| 107 | 6B  | k      | &#107;      |           | Lowercase k        |
| 108 | 6C  | l      | &#108;      |           | Lowercase l        |
| 109 | 6D  | m      | &#109;      |           | Lowercase m        |
| 110 | 6E  | n      | &#110;      |           | Lowercase n        |
| 111 | 6F  | o      | &#111;      |           | Lowercase o        |
| 112 | 70  | p      | &#112;      |           | Lowercase p        |
| 113 | 71  | q      | &#113;      |           | Lowercase q        |
| 114 | 72  | r      | &#114;      |           | Lowercase r        |
| 115 | 73  | s      | &#115;      |           | Lowercase s        |
| 116 | 74  | t      | &#116;      |           | Lowercase t        |
| 117 | 75  | u      | &#117;      |           | Lowercase u        |
| 118 | 76  | v      | &#118;      |           | Lowercase v        |

| DEC | HEX | Symbol | HTML Number | HTML Name | Description              |
|-----|-----|--------|-------------|-----------|--------------------------|
| 119 | 77  | w      | &#119;      |           | Lowercase w              |
| 120 | 78  | x      | &#120;      |           | Lowercase x              |
| 121 | 79  | y      | &#121;      |           | Lowercase y              |
| 122 | 7A  | z      | &#122;      |           | Lowercase z              |
| 123 | 7B  | {      | &#123;      |           | Opening brace            |
| 124 | 7C  |        | &#124;      |           | Vertical bar             |
| 125 | 7D  | }      | &#125;      |           | Closing brace            |
| 126 | 7E  | ~      | &#126;      |           | Equivalency sign - tilde |
| 127 | 7F  |        | &#127;      |           | Delete                   |

## The extended ASCII codes (character code 128-255)

There are several different variations of the 8-bit ASCII table. The table below is according to Windows-1252 (CP-1252) which is a superset of ISO 8859-1, also called ISO Latin-1, in terms of printable characters, but differs from the IANA's ISO-8859-1 by using displayable characters rather than control characters in the 128 to 159 range. Characters that differ from ISO-8859-1 is marked by light blue color.

| DEC | HEX | Symbol | HTML Number | HTML Name | Description                          |
|-----|-----|--------|-------------|-----------|--------------------------------------|
| 128 | 80  | €      | &#128;      | &euro;    | Euro sign                            |
| 129 | 81  |        |             |           |                                      |
| 130 | 82  | ‚      | &#130;      | &sbquo;   | Single low-9 quotation mark          |
| 131 | 83  | ƒ      | &#131;      | &fnof;    | Latin small letter f with hook       |
| 132 | 84  | “      | &#132;      | &bdquo;   | Double low-9 quotation mark          |
| 133 | 85  | …      | &#133;      | &hellip;  | Horizontal ellipsis                  |
| 134 | 86  | †      | &#134;      | &dagger;  | Dagger                               |
| 135 | 87  | ‡      | &#135;      | &Dagger;  | Double dagger                        |
| 136 | 88  | ˆ      | &#136;      | &circ;    | Modifier letter circumflex accent    |
| 137 | 89  | ‰      | &#137;      | &permil;  | Per mille sign                       |
| 138 | 8A  | Š      | &#138;      | &Scaron;  | Latin capital letter S with caron    |
| 139 | 8B  | ‹      | &#139;      | &lsaquo;  | Single left-pointing angle quotation |
| 140 | 8C  | Œ      | &#140;      | &OElig;   | Latin capital ligature OE            |
| 141 | 8D  |        |             |           |                                      |
| 142 | 8E  | Ž      | &#142;      |           | Latin capital letter Z with caron    |
| 143 | 8F  |        |             |           |                                      |
| 144 | 90  |        |             |           |                                      |
| 145 | 91  | ‘      | &#145;      | &lsquo;   | Left single quotation mark           |
| 146 | 92  | ’      | &#146;      | &rsquo;   | Right single quotation mark          |
| 147 | 93  | “      | &#147;      | &ldquo;   | Left double quotation mark           |
| 148 | 94  | ”      | &#148;      | &rdquo;   | Right double quotation mark          |
| 149 | 95  | •      | &#149;      | &bull;    | Bullet                               |
| 150 | 96  | –      | &#150;      | &ndash;   | En dash                              |
| 151 | 97  | —      | &#151;      | &mdash;   | Em dash                              |

| DEC | HEX | Symbol | HTML Number | HTML Name | Description                                |
|-----|-----|--------|-------------|-----------|--|
| 152 | 98  | ~      | &#152;      | &tilde;   | Small tilde                                |
| 153 | 99  | ™      | &#153;      | &trade;   | Trade mark sign                            |
| 154 | 9A  | š      | &#154;      | &scaron;  | Latin small letter S with caron            |
| 155 | 9B  | ›      | &#155;      | &rsaquo;  | Single right-pointing angle quotation mark |
| 156 | 9C  | œ      | &#156;      | &oelig;   | Latin small ligature oe                    |
| 157 | 9D  |        |             |           |  |
| 158 | 9E  | ž      | &#158;      |           | Latin small letter z with caron            |
| 159 | 9F  | ÿ      | &#159;      | &Yuml;    | Latin capital letter Y with diaeresis      |
| 160 | A0  |        | &#160;      | &nbsp;    | Non-breaking space                         |
| 161 | A1  | ¡      | &#161;      | &iexcl;   | Inverted exclamation mark                  |
| 162 | A2  | ¢      | &#162;      | &cent;    | Cent sign                                  |
| 163 | A3  | £      | &#163;      | &pound;   | Pound sign                                 |
| 164 | A4  | ¤      | &#164;      | &curren;  | Currency sign                              |
| 165 | A5  | ¥      | &#165;      | &yen;     | Yen sign                                   |
| 166 | A6  |        | &#166;      | &brvbar;  | Pipe, Broken vertical bar                  |
| 167 | A7  | §      | &#167;      | &sect;    | Section sign                               |
| 168 | A8  | ¨      | &#168;      | &uml;     | Spacing diaeresis - umlaut                 |
| 169 | A9  | ©      | &#169;      | &copy;    | Copyright sign                             |
| 170 | AA  | ª      | &#170;      | &ordf;    | Feminine ordinal indicator                 |
| 171 | AB  | «      | &#171;      | &laquo;   | Left double angle quotes                   |
| 172 | AC  | ¬      | &#172;      | &not;     | Not sign                                   |
| 173 | AD  |        | &#173;      | &shy;     | Soft hyphen                                |
| 174 | AE  | ®      | &#174;      | &reg;     | Registered trade mark sign                 |
| 175 | AF  | ¯      | &#175;      | &macr;    | Spacing macron - overline                  |
| 176 | B0  | °      | &#176;      | &deg;     | Degree sign                                |
| 177 | B1  | ±      | &#177;      | &plusmn;  | Plus-or-minus sign                         |
| 178 | B2  | ²      | &#178;      | &sup2;    | Superscript two - squared                  |
| 179 | B3  | ³      | &#179;      | &sup3;    | Superscript three - cubed                  |
| 180 | B4  | ´      | &#180;      | &acute;   | Acute accent - spacing acute               |
| 181 | B5  | µ      | &#181;      | &micro;   | Micro sign                                 |



| DEC | HEX | Symbol | HTML Number | HTML Name | Description                            |
|-----|-----|--------|-------------|-----------|--|
| 182 | B6  | ¶      | &#182;      | &para;    | Pilcrow sign - paragraph sign          |
| 183 | B7  | ·      | &#183;      | &middot;  | Middle dot - Georgian comma            |
| 184 | B8  | ¸      | &#184;      | &cedil;   | Spacing cedilla                        |
| 185 | B9  | ¹      | &#185;      | &sup1;    | Superscript one                        |
| 186 | BA  | º      | &#186;      | &ordm;    | Masculine ordinal indicator            |
| 187 | BB  | »      | &#187;      | &raquo;   | Right double angle quotes              |
| 188 | BC  | ¼      | &#188;      | &frac14;  | Fraction one quarter                   |
| 189 | BD  | ½      | &#189;      | &frac12;  | Fraction one half                      |
| 190 | BE  | ¾      | &#190;      | &frac34;  | Fraction three quarters                |
| 191 | BF  | ¿      | &#191;      | &iquest;  | Inverted question mark                 |
| 192 | C0  | À      | &#192;      | &Agrave;  | Latin capital letter A with grave      |
| 193 | C1  | Á      | &#193;      | &Aacute;  | Latin capital letter A with acute      |
| 194 | C2  | Â      | &#194;      | &Acirc;   | Latin capital letter A with circumflex |
| 195 | C3  | Ã      | &#195;      | &Atilde;  | Latin capital letter A with tilde      |
| 196 | C4  | Ä      | &#196;      | &Auml;    | Latin capital letter A with diaeresis  |
| 197 | C5  | Å      | &#197;      | &Aring;   | Latin capital letter A with ring above |
| 198 | C6  | Æ      | &#198;      | &AElig;   | Latin capital letter AE                |
| 199 | C7  | Ç      | &#199;      | &Ccedil;  | Latin capital letter C with cedilla    |
| 200 | C8  | È      | &#200;      | &Egrave;  | Latin capital letter E with grave      |
| 201 | C9  | É      | &#201;      | &Eacute;  | Latin capital letter E with acute      |
| 202 | CA  | Ê      | &#202;      | &Ecirc;   | Latin capital letter E with circumflex |
| 203 | CB  | Ë      | &#203;      | &Euml;    | Latin capital letter E with diaeresis  |
| 204 | CC  | Ì      | &#204;      | &Igrave;  | Latin capital letter I with grave      |
| 205 | CD  | Í      | &#205;      | &Iacute;  | Latin capital letter I with acute      |
| 206 | CE  | Î      | &#206;      | &Icirc;   | Latin capital letter I with circumflex |
| 207 | CF  | Ï      | &#207;      | &Iuml;    | Latin capital letter I with diaeresis  |
| 208 | D0  | Ð      | &#208;      | &ETH;     | Latin capital letter ETH               |
| 209 | D1  | Ñ      | &#209;      | &Ntilde;  | Latin capital letter N with tilde      |
| 210 | D2  | Ò      | &#210;      | &Ograve;  | Latin capital letter O with grave      |

| DEC | HEX | Symbol | HTML Number | HTML Name | Description                            |
|-----|-----|--------|-------------|-----------|--|
| 211 | D3  | Ó      | &#211;      | &Oacute;  | Latin capital letter O with acute      |
| 212 | D4  | Ô      | &#212;      | &Ocirc;   | Latin capital letter O with circumflex |
| 213 | D5  | Ï      | &#213;      | &Otilde;  | Latin capital letter O with tilde      |
| 214 | D6  | Ö      | &#214;      | &Ouml;    | Latin capital letter O with diaeresis  |
| 215 | D7  | ×      | &#215;      | &times;   | Multiplication sign                    |
| 216 | D8  | Ø      | &#216;      | &Oslash;  | Latin capital letter O with slash      |
| 217 | D9  | Ù      | &#217;      | &Ugrave;  | Latin capital letter U with grave      |
| 218 | DA  | Ú      | &#218;      | &Uacute;  | Latin capital letter U with acute      |
| 219 | DB  | Û      | &#219;      | &Ucirc;   | Latin capital letter U with circumflex |
| 220 | DC  | Ü      | &#220;      | &Uuml;    | Latin capital letter U with diaeresis  |
| 221 | DD  | Ý      | &#221;      | &Yacute;  | Latin capital letter Y with acute      |
| 222 | DE  | Þ      | &#222;      | &THORN;   | Latin capital letter THORN             |
| 223 | DF  | ß      | &#223;      | &szlig;   | Latin small letter sharp s - ess-zed   |
| 224 | E0  | à      | &#224;      | &agrave;  | Latin small letter a with grave        |
| 225 | E1  | á      | &#225;      | &aacute;  | Latin small letter a with acute        |
| 226 | E2  | â      | &#226;      | &acirc;   | Latin small letter a with circumflex   |
| 227 | E3  | ã      | &#227;      | &atilde;  | Latin small letter a with tilde        |
| 228 | E4  | ä      | &#228;      | &auml;    | Latin small letter a with diaeresis    |
| 229 | E5  | å      | &#229;      | &aring;   | Latin small letter a with ring above   |
| 230 | E6  | æ      | &#230;      | &aelig;   | Latin small letter ae                  |
| 231 | E7  | ç      | &#231;      | &ccedil;  | Latin small letter c with cedilla      |
| 232 | E8  | è      | &#232;      | &egrave;  | Latin small letter e with grave        |
| 233 | E9  | é      | &#233;      | &eacute;  | Latin small letter e with acute        |
| 234 | EA  | ê      | &#234;      | &ecirc;   | Latin small letter e with circumflex   |
| 235 | EB  | ë      | &#235;      | &euml;    | Latin small letter e with diaeresis    |
| 236 | EC  | ì      | &#236;      | &igrave;  | Latin small letter i with grave        |
| 237 | ED  | í      | &#237;      | &iacute;  | Latin small letter i with acute        |
| 238 | EE  | î      | &#238;      | &icirc;   | Latin small letter i with circumflex   |
| 239 | EF  | ï      | &#239;      | &iuml;    | Latin small letter i with diaeresis    |

| DEC | HEX | Symbol | HTML Number | HTML Name | Description                          |
|-----|-----|--------|-------------|-----------|--------------------------------------|
| 240 | F0  | ð      | &#240;      | &eth;     | Latin small letter eth               |
| 241 | F1  | ñ      | &#241;      | &ntilde;  | Latin small letter n with tilde      |
| 242 | F2  | ò      | &#242;      | &ograve;  | Latin small letter o with grave      |
| 243 | F3  | ó      | &#243;      | &oacute;  | Latin small letter o with acute      |
| 244 | F4  | ô      | &#244;      | &ocirc;   | Latin small letter o with circumflex |
| 245 | F5  | õ      | &#245;      | &otilde;  | Latin small letter o with tilde      |
| 246 | F6  | ö      | &#246;      | &ouml;    | Latin small letter o with diaeresis  |
| 247 | F7  | ÷      | &#247;      | &divide;  | Division sign                        |
| 248 | F8  | ø      | &#248;      | &oslash;  | Latin small letter o with slash      |
| 249 | F9  | ù      | &#249;      | &ugrave;  | Latin small letter u with grave      |
| 250 | FA  | ú      | &#250;      | &uacute;  | Latin small letter u with acute      |
| 251 | FB  | û      | &#251;      | &ucirc;   | Latin small letter u with circumflex |
| 252 | FC  | ü      | &#252;      | &uuml;    | Latin small letter u with diaeresis  |
| 253 | FD  | ý      | &#253;      | &yacute;  | Latin small letter y with acute      |
| 254 | FE  | þ      | &#254;      | &thorn;   | Latin small letter thorn             |
| 255 | FF  | ÿ      | &#255;      | &yuml;    | Latin small letter y with diaeresis  |

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