

# THE LIST OF CHARACTERS FOR ISO 8859-1

List compiled by [www.simiandesign.com](http://www.simiandesign.com).

Character Entity	Numeric Entity	Hex	Rendered (Character)	Rendered (Numeric)	Name
&nbsp;	&#160;	%A0			non-breaking space
&iexcl;	&#161;	%A1	¡	¡	inverted exclamation mark
&cent;	&#162;	%A2	¢	¢	cent sign
&pound;	&#163;	%A3	£	£	pound sign
&curren;	&#164;	%A4	¤	¤	currency sign
&yen;	&#165;	%A5	¥	¥	yen sign
&brvbar;	&#166;	%A6	¦	¦	broken bar
&sect;	&#167;	%A7	§	§	section sign
&uml;	&#168;	%A8	¨	¨	diaeresis
&copy;	&#169;	%A9	©	©	copyright sign
&ordf;	&#170;	%AA	ª	ª	feminine ordinal indicator
&laquo;	&#171;	%AB	«	«	left-pointing double angle quotation mark
&not;	&#172;	%AC	¬	¬	not sign
&shy;	&#173;	%AD	-	-	soft hyphen
&reg;	&#174;	%AE	®	®	registered sign
&macr;	&#175;	%AF	—	—	macron
&deg;	&#176;	%B0	°	°	degree sign
&plusmn;	&#177;	%B1	±	±	plus-minus sign
&sup2;	&#178;	%B2	²	²	superscript two
&sup3;	&#179;	%B3	³	³	superscript three
&acute;	&#180;	%B4	´	´	acute accent
&micro;	&#181;	%B5	µ	µ	micro sign
&para;	&#182;	%B6	¶	¶	pilcrow sign
&middot;	&#183;	%B7	·	·	middle dot
&cedil;	&#184;	%B8	¸	¸	cedilla
&sup1;	&#185;	%B9	¹	¹	superscript one
&ordm;	&#186;	%BA	º	º	masculine ordinal indicator
&raquo;	&#187;	%BB	»	»	right-pointing double angle quotation mark
&frac14;	&#188;	%BC	¼	¼	vulgar fraction one quarter
&frac12;	&#189;	%BD	½	½	vulgar fraction one half
&frac34;	&#190;	%BE	¾	¾	vulgar fraction three quarters
&iquest;	&#191;	%BF	¿	¿	inverted question mark
&Agrave;	&#192;	%C0	À	À	latin capital letter A with grave
&Aacute;	&#193;	%C1	Á	Á	latin capital letter A with acute
&Acirc;	&#194;	%C2	Â	Â	latin capital letter A with circumflex

&Atilde;	&#195;	%C3	Ã	Ã	latin capital letter A with tilde
&Auml;	&#196;	%C4	Ä	Ä	latin capital letter A with diaeresis
&Aring;	&#197;	%C5	Å	Å	latin capital letter A with ring above
&AElig;	&#198;	%C6	Æ	Æ	latin capital letter AE
&Ccedil;	&#199;	%C7	Ç	Ç	latin capital letter C with cedilla
&Egrave;	&#200;	%C8	È	È	latin capital letter E with grave
&Eacute;	&#201;	%C9	É	É	latin capital letter E with acute
&Ecirc;	&#202;	%CA	Ê	Ê	latin capital letter E with circumflex
&Euml;	&#203;	%CB	Ë	Ë	latin capital letter E with diaeresis
&Igrave;	&#204;	%CC	Ì	Ì	latin capital letter I with grave
&Iacute;	&#205;	%CD	Í	Í	latin capital letter I with acute
&Icirc;	&#206;	%CE	Î	Î	latin capital letter I with circumflex
&Iuml;	&#207;	%CF	Ï	Ï	latin capital letter I with diaeresis
&ETH;	&#208;	%D0	Ð	Ð	latin capital letter ETH
&Ntilde;	&#209;	%D1	Ñ	Ñ	latin capital letter N with tilde
&Ograve;	&#210;	%D2	Ò	Ò	latin capital letter O with grave
&Oacute;	&#211;	%D3	Ó	Ó	latin capital letter O with acute
&Ocirc;	&#212;	%D4	Ô	Ô	latin capital letter O with circumflex
&Otilde;	&#213;	%D5	Õ	Õ	latin capital letter O with tilde
&Ouml;	&#214;	%D6	Ö	Ö	latin capital letter O with diaeresis
&times;	&#215;	%D7	×	×	multiplication sign
&Oslash;	&#216;	%D8	Ø	Ø	latin capital letter O with stroke
&Ugrave;	&#217;	%D9	Ù	Ù	latin capital letter U with grave
&Uacute;	&#218;	%DA	Ú	Ú	latin capital letter U with acute
&Ucirc;	&#219;	%DB	Û	Û	latin capital letter U with circumflex
&Uuml;	&#220;	%DC	Ü	Ü	latin capital letter U with diaeresis
&Yacute;	&#221;	%DD	Ý	Ý	latin capital letter Y with acute
&THORN;	&#222;	%DE	Þ	Þ	latin capital letter THORN
&szlig;	&#223;	%DF	ß	ß	latin small letter sharp s
&agrave;	&#224;	%E0	à	à	latin small letter a with grave
&aacute;	&#225;	%E1	á	á	latin small letter a with acute
&acirc;	&#226;	%E2	â	â	latin small letter a with circumflex
&atilde;	&#227;	%E3	ã	ã	latin small letter a with tilde
&auml;	&#228;	%E4	ä	ä	latin small letter a with diaeresis
&aring;	&#229;	%E5	å	å	latin small letter a with ring above
&aelig;	&#230;	%E6	æ	æ	latin small letter ae
&ccedil;	&#231;	%E7	ç	ç	latin small letter c with cedilla
&egrave;	&#232;	%E8	è	è	latin small letter e with grave
&eacute;	&#233;	%E9	é	é	latin small letter e with acute
&ecirc;	&#234;	%EA	ê	ê	latin small letter e with circumflex

&euml;	&#235;	%EB	ë	ë	latin small letter e with diaeresis
&igrave;	&#236;	%EC	ì	ì	latin small letter i with grave
&iacute;	&#237;	%ED	í	í	latin small letter i with acute
&icirc;	&#238;	%EE	î	î	latin small letter i with circumflex
&iuml;	&#239;	%EF	ï	ï	latin small letter i with diaeresis
&eth;	&#240;	%F0	ð	ð	latin small letter eth
&ntilde;	&#241;	%F1	ñ	ñ	latin small letter n with tilde
&ograve;	&#242;	%F2	ò	ò	latin small letter o with grave
&oacute;	&#243;	%F3	ó	ó	latin small letter o with acute
&ocirc;	&#244;	%F4	ô	ô	latin small letter o with circumflex
&otilde;	&#245;	%F5	õ	õ	latin small letter o with tilde
&ouml;	&#246;	%F6	ö	ö	latin small letter o with diaeresis
&divide;	&#247;	%F7	÷	÷	division sign
&oslash;	&#248;	%F8	ø	ø	latin small letter o with stroke
&ugrave;	&#249;	%F9	ù	ù	latin small letter u with grave
&uacute;	&#250;	%FA	ú	ú	latin small letter u with acute
&ucirc;	&#251;	%FB	û	û	latin small letter u with circumflex
&uuml;	&#252;	%FC	ü	ü	latin small letter u with diaeresis
&yacute;	&#253;	%FD	ý	ý	latin small letter y with acute
&thorn;	&#254;	%FE	þ	þ	latin small letter thorn
&yuml;	&#255;	%FF	ÿ	ÿ	latin small letter y with diaeresis

## THE LIST OF CHARACTERS FOR SYMBOLS, MATHEMATICAL SYMBOLS, AND GREEK LETTERS

Character Entity	Numeric Entity	Hex	Rendered (Character)	Rendered (Numeric)	Name
&fnof;	&#402;	%83	<i>f</i>	<i>f</i>	latin small f with hook
&Alpha;	&#913;		A	A	greek capital letter alpha
&Beta;	&#914;		B	B	greek capital letter beta
&Gamma;	&#915;		Γ	Γ	greek capital letter gamma
&Delta;	&#916;		Δ	Δ	greek capital letter delta
&Epsilon;	&#917;		E	E	greek capital letter epsilon
&Zeta;	&#918;		Z	Z	greek capital letter zeta
&Eta;	&#919;		H	H	greek capital letter eta
&Theta;	&#920;		Θ	Θ	greek capital letter theta
&Iota;	&#921;		I	I	greek capital letter iota
&Kappa;	&#922;		K	K	greek capital letter kappa
&Lambda;	&#923;		Λ	Λ	greek capital letter lambda
&Mu;	&#924;		M	M	greek capital letter mu
&Nu;	&#925;		N	N	greek capital letter nu
&Xi;	&#926;		Ξ	Ξ	greek capital letter xi

&Omicron;	&#927;	Ο	Ο	greek capital letter omicron
&Pi;	&#928;	Π	Π	greek capital letter pi
&Rho;	&#929;	Ρ	Ρ	greek capital letter rho
&Sigma;	&#931;	Σ	Σ	greek capital letter sigma
&Tau;	&#932;	Τ	Τ	greek capital letter tau
&Upsilon;	&#933;	Υ	Υ	greek capital letter upsilon
&Phi;	&#934;	Φ	Φ	greek capital letter phi
&Chi;	&#935;	Χ	Χ	greek capital letter chi
&Psi;	&#936;	Ψ	Ψ	greek capital letter psi
&Omega;	&#937;	Ω	Ω	greek capital letter omega
&alpha;	&#945;	α	α	greek small letter alpha
&beta;	&#946;	β	β	greek small letter beta
&gamma;	&#947;	γ	γ	greek small letter gamma
&delta;	&#948;	δ	δ	greek small letter delta
&epsilon;	&#949;	ε	ε	greek small letter epsilon
&zeta;	&#950;	ζ	ζ	greek small letter zeta
&eta;	&#951;	η	η	greek small letter eta
&theta;	&#952;	θ	θ	greek small letter theta
&iota;	&#953;	ι	ι	greek small letter iota
&kappa;	&#954;	κ	κ	greek small letter kappa
&lambda;	&#955;	λ	λ	greek small letter lambda
&mu;	&#956;	μ	μ	greek small letter mu
&nu;	&#957;	ν	ν	greek small letter nu
&xi;	&#958;	ξ	ξ	greek small letter xi
&omicron;	&#959;	ο	ο	greek small letter omicron
&pi;	&#960;	π	π	greek small letter pi
&rho;	&#961;	ρ	ρ	greek small letter rho
&sigmaf;	&#962;	ς	ς	greek small letter final sigma
&sigma;	&#963;	σ	σ	greek small letter sigma
&tau;	&#964;	τ	τ	greek small letter tau
&upsilon;	&#965;	υ	υ	greek small letter upsilon
&phi;	&#966;	φ	φ	greek small letter phi
&chi;	&#967;	χ	χ	greek small letter chi
&psi;	&#968;	ψ	ψ	greek small letter psi
&omega;	&#969;	ω	ω	greek small letter omega
&thetasym;	&#977;	ϑ	ϑ	greek small letter theta symbol
&upsih;	&#978;	ϣ	ϣ	greek upsilon with hook symbol
&piv;	&#982;	ϖ	ϖ	greek pi symbol
&bull;	&#8226;	%95	•	bullet
&hellip;	&#8230;	%85	...	horizontal ellipsis

<code>&amp;prime;</code>	<code>&amp;#8242;</code>	'	'	primeminutes
<code>&amp;Prime;</code>	<code>&amp;#8243;</code>	"	"	double prime
<code>&amp;oline;</code>	<code>&amp;#8254;</code>	—	—	overline
<code>&amp;frasl;</code>	<code>&amp;#8260;</code>	/	/	fraction slash
<code>&amp;weierp;</code>	<code>&amp;#8472;</code>	℘	℘	script capital P
<code>&amp;image;</code>	<code>&amp;#8465;</code>	ℑ	ℑ	blackletter capital I
<code>&amp;real;</code>	<code>&amp;#8476;</code>	℞	℞	blackletter capital R
<code>&amp;trade;</code>	<code>&amp;#8482;</code>	™	™	trade mark sign
<code>&amp;alefsym;</code>	<code>&amp;#8501;</code>	ℵ	ℵ	alef symbol
<code>&amp;larr;</code>	<code>&amp;#8592;</code>	←	←	leftwards arrow
<code>&amp;uarr;</code>	<code>&amp;#8593;</code>	↑	↑	upwards arrow
<code>&amp;rarr;</code>	<code>&amp;#8594;</code>	→	→	rightwards arrow
<code>&amp;darr;</code>	<code>&amp;#8595;</code>	↓	↓	downwards arrow
<code>&amp;harr;</code>	<code>&amp;#8596;</code>	↔	↔	left right arrow
<code>&amp;crarr;</code>	<code>&amp;#8629;</code>	↙	↙	downwards arrow with corner leftwards
<code>&amp;lArr;</code>	<code>&amp;#8656;</code>	⇐	⇐	leftwards double arrow
<code>&amp;uArr;</code>	<code>&amp;#8657;</code>	⇑	⇑	upwards double arrow
<code>&amp;rArr;</code>	<code>&amp;#8658;</code>	⇒	⇒	rightwards double arrow
<code>&amp;dArr;</code>	<code>&amp;#8659;</code>	⇓	⇓	downwards double arrow
<code>&amp;hArr;</code>	<code>&amp;#8660;</code>	⇔	⇔	left right double arrow
<code>&amp;forall;</code>	<code>&amp;#8704;</code>	∀	∀	for all
<code>&amp;part;</code>	<code>&amp;#8706;</code>	∂	∂	partial differential
<code>&amp;exist;</code>	<code>&amp;#8707;</code>	∃	∃	there exists
<code>&amp;empty;</code>	<code>&amp;#8709;</code>	∅	∅	empty set
<code>&amp;nabla;</code>	<code>&amp;#8711;</code>	∇	∇	nabla
<code>&amp;isin;</code>	<code>&amp;#8712;</code>	∈	∈	element of
<code>&amp;notin;</code>	<code>&amp;#8713;</code>	∉	∉	not an element of
<code>&amp;ni;</code>	<code>&amp;#8715;</code>	∋	∋	contains as member
<code>&amp;prod;</code>	<code>&amp;#8719;</code>	∏	∏	n-ary product
<code>&amp;sum;</code>	<code>&amp;#8721;</code>	∑	∑	n-ary sumation
<code>&amp;minus;</code>	<code>&amp;#8722;</code>	−	−	minus sign
<code>&amp;lowast;</code>	<code>&amp;#8727;</code>	*	*	asterisk operator
<code>&amp;radic;</code>	<code>&amp;#8730;</code>	√	√	square root
<code>&amp;prop;</code>	<code>&amp;#8733;</code>	∝	∝	proportional to
<code>&amp;infin;</code>	<code>&amp;#8734;</code>	∞	∞	infinity
<code>&amp;ang;</code>	<code>&amp;#8736;</code>	∠	∠	angle
<code>&amp;and;</code>	<code>&amp;#8743;</code>	∧	∧	logical and
<code>&amp;or;</code>	<code>&amp;#8744;</code>	∨	∨	logical or
<code>&amp;cap;</code>	<code>&amp;#8745;</code>	∩	∩	intersection
<code>&amp;cup;</code>	<code>&amp;#8746;</code>	∪	∪	union

&int;	&#8747;	∫	∫	integral
&there4;	&#8756;	∴	∴	therefore
&sim;	&#8764;	~	~	tilde operator
&cong;	&#8773;	≅	≅	approximately equal to
&asymp;	&#8776;	≈	≈	almost equal to
&ne;	&#8800;	≠	≠	not equal to
&equiv;	&#8801;	≡	≡	identical to
&le;	&#8804;	≤	≤	less-than or equal to
&ge;	&#8805;	≥	≥	greater-than or equal to
&sub;	&#8834;	⊂	⊂	subset of
&sup;	&#8835;	⊃	⊃	superset of
&nsub;	&#8836;	⊄	⊄	not a subset of
&sube;	&#8838;	⊆	⊆	subset of or equal to
&supe;	&#8839;	⊇	⊇	superset of or equal to
&oplus;	&#8853;	⊕	⊕	circled plus
&otimes;	&#8855;	⊗	⊗	circled times
&perp;	&#8869;	⊥	⊥	up tack
&sdot;	&#8901;	⋅	⋅	dot operator
&lceil;	&#8968;	⌈	⌈	left ceiling
&rceil;	&#8969;	⌋	⌋	right ceiling
&lfloor;	&#8970;	⌊	⌊	left floor
&rfloor;	&#8971;	⌋	⌋	right floor
&lang;	&#9001;	⸤	⸤	left-pointing angle bracket
&rang;	&#9002;	⸥	⸥	right-pointing angle bracket
&loz;	&#9674;	◇	◇	lozenge
&spades;	&#9824;	♠	♠	black spade suit
&clubs;	&#9827;	♣	♣	black club suit
&hearts;	&#9829;	♥	♥	black heart suit
&diams;	&#9830;	♠	♠	black diamond suit

## THE LIST OF CHARACTERS

Character Entity	Numeric Entity	Hex	Rendered (Character)	Rendered (Numeric)	Name
&quot;	&#34;	%22	"	"	quotation mark
&amp;	&#38;	%26	&	&	ampersand
&lt;	&#60;	%3C	<	<	less-than sign
&gt;	&#62;	%3E	>	>	greater-than sign
&OElig;	&#338;	%8C	Œ	Œ	latin capital ligature OE
&oelig;	&#339;	%9C	œ	œ	latin small ligature oe
&Scaron;	&#352;	%8A	Š	Š	latin capital letter S with caron

&scaron;	&#353;	%9A	š	š	latin small letter s with caron
&Yuml;	&#376;	%9F	ÿ	ÿ	latin capital letter Y with diaeresis
&circ;	&#710;	%88	ˆ	ˆ	modifier letter circumflex accent
&tilde;	&#732;	%98	˜	˜	small tilde
&ensp;	&#8194;				en space
&emsp;	&#8195;				em space
&thinsp;	&#8201;				thin space
&zwj;	&#8204;				zero width non-joiner
&zwj;	&#8205;				zero width joiner
&lrm;	&#8206;				left-to-right mark
&rlm;	&#8207;				right-to-left mark
&ndash;	&#8211;	%96	–	–	en dash
&mdash;	&#8212;	%97	—	—	em dash
&lsquo;	&#8216;	%91	‘	‘	left single quotation mark
&rsquo;	&#8217;	%92	’	’	right single quotation mark
&sbquo;	&#8218;		‚	‚	single low-9 quotation mark
&ldquo;	&#8220;	%93	“	“	left double quotation mark
&rdquo;	&#8221;	%94	”	”	right double quotation mark
&bdquo;	&#8222;		„	„	double low-9 quotation mark
&dagger;	&#8224;	%86	†	†	dagger
&Dagger;	&#8225;	%87	‡	‡	double dagger
&permil;	&#8240;	%89	‰	‰	per mille sign
&lsaquo;	&#8249;	%8B	◀	◀	single left-pointing angle quotation mark
&rsaquo;	&#8250;	%9B	▶	▶	single right-pointing angle quotation mark
&euro;	&#8364;	%80	€	€	euro sign