

# 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)
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

DEC	HEX	Symbol	HTML Number	HTML Name	Description
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
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

DEC	HEX	Symbol	HTML Number	HTML Name	Description
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
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

DEC	HEX	Symbol	HTML Number	HTML Name	Description
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
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	^	&#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
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

DEC	HEX	Symbol	HTML Number	HTML Name	Description
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
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

DEC	HEX	Symbol	HTML Number	HTML Name	Description
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
211	D3	Ó	&#211;	&Oacute;	Latin capital letter O with acute
212	D4	Ô	&#212;	&Ocirc;	Latin capital letter O with circumflex
213	D5	Õ	&#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
240	F0	ð	&#240;	&eth;	Latin small letter eth



DEC	HEX	Symbol	HTML Number	HTML Name	Description
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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