

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	BIN	Symbol	HTML Number	HTML Name	Description
0	00	00000000	NUL	�		Null char
1	01	00000001	SOH			Start of Heading
2	02	00000010	STX			Start of Text
3	03	00000011	ETX			End of Text
4	04	00000100	EOT			End of Transmission
5	05	00000101	ENQ			Enquiry
6	06	00000110	ACK			Acknowledgment
7	07	00000111	BEL			Bell
8	08	00001000	BS			Back Space
9	09	00001001	HT				Horizontal Tab
10	0A	00001010	LF	
		Line Feed
11	0B	00001011	VT			Vertical Tab
12	0C	00001100	FF			Form Feed
13	0D	00001101	CR			Carriage Return
14	0E	00001110	SO			Shift Out / X-On
15	0F	00001111	SI			Shift In / X-Off
16	10	00010000	DLE			Data Line Escape
17	11	00010001	DC1			Device Control 1 (oft. XON)
18	12	00010010	DC2			Device Control 2
19	13	00010011	DC3			Device Control 3 (oft. XOFF)
20	14	00010100	DC4			Device Control 4
21	15	00010101	NAK			Negative Acknowledgement
22	16	00010110	SYN			Synchronous Idle
23	17	00010111	ETB			End of Transmit Block
24	18	00011000	CAN			Cancel
25	19	00011001	EM			End of Medium
26	1A	00011010	SUB			Substitute
27	1B	00011011	ESC			Escape
28	1C	00011100	FS			File Separator
29	1D	00011101	GS			Group Separator
30	1E	00011110	RS			Record Separator
31	1F	00011111	US			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	BIN	Symbol	HTML Number	HTML Name	Description
32	20	00100000		 		Space
33	21	00100001	!	!		Exclamation mark
34	22	00100010	"	"	"	Double quotes (or speech marks)
35	23	00100011	#	#		Number
36	24	00100100	\$	$		Dollar
37	25	00100101	%	%		Procenttecken
38	26	00100110	&	&	&	Ampersand
39	27	00100111	'	'		Single quote
40	28	00101000	((Open parenthesis (or open bracket)
41	29	00101001))		Close parenthesis (or close bracket)
42	2A	00101010	*	*		Asterisk
43	2B	00101011	+	+		Plus
44	2C	00101100	,	,		Comma
45	2D	00101101	-	-		Hyphen
46	2E	00101110	.	.		Period, dot or full stop
47	2F	00101111	/	/		Slash or divide
48	30	00110000	0	0		Zero
49	31	00110001	1	1		One
50	32	00110010	2	2		Two
51	33	00110011	3	3		Three
52	34	00110100	4	4		Four
53	35	00110101	5	5		Five
54	36	00110110	6	6		Six
55	37	00110111	7	7		Seven
56	38	00111000	8	8		Eight
57	39	00111001	9	9		Nine
58	3A	00111010	:	:		Colon
59	3B	00111011	;	;		Semicolon
60	3C	00111100	<	<	<	Less than (or open angled bracket)
61	3D	00111101	=	=		Equals
62	3E	00111110	>	>	>	Greater than (or close angled bracket)
63	3F	00111111	?	?		Question mark
64	40	01000000	@	@		At symbol
65	41	01000001	A	A		Uppercase A
66	42	01000010	B	B		Uppercase B
67	43	01000011	C	C		Uppercase C
68	44	01000100	D	D		Uppercase D
69	45	01000101	E	E		Uppercase E
70	46	01000110	F	F		Uppercase F
71	47	01000111	G	G		Uppercase G
72	48	01001000	H	H		Uppercase H
73	49	01001001	I	I		Uppercase I
74	4A	01001010	J	J		Uppercase J
75	4B	01001011	K	K		Uppercase K
76	4C	01001100	L	L		Uppercase L
77	4D	01001101	M	M		Uppercase M
78	4E	01001110	N	N		Uppercase N

79	4F	01001111	O	O		Uppercase O
80	50	01010000	P	P		Uppercase P
81	51	01010001	Q	Q		Uppercase Q
82	52	01010010	R	R		Uppercase R
83	53	01010011	S	S		Uppercase S
84	54	01010100	T	T		Uppercase T
85	55	01010101	U	U		Uppercase U
86	56	01010110	V	V		Uppercase V
87	57	01010111	W	W		Uppercase W
88	58	01011000	X	X		Uppercase X
89	59	01011001	Y	Y		Uppercase Y
90	5A	01011010	Z	Z		Uppercase Z
91	5B	01011011	[[Opening bracket
92	5C	01011100	\	\		Backslash
93	5D	01011101]]		Closing bracket
94	5E	01011110	^	^		Caret - circumflex
95	5F	01011111	_	_		Underscore
96	60	01100000	`	`		Grave accent
97	61	01100001	a	a		Lowercase a
98	62	01100010	b	b		Lowercase b
99	63	01100011	c	c		Lowercase c
100	64	01100100	d	d		Lowercase d
101	65	01100101	e	e		Lowercase e
102	66	01100110	f	f		Lowercase f
103	67	01100111	g	g		Lowercase g
104	68	01101000	h	h		Lowercase h
105	69	01101001	i	i		Lowercase i
106	6A	01101010	j	j		Lowercase j
107	6B	01101011	k	k		Lowercase k
108	6C	01101100	l	l		Lowercase l
109	6D	01101101	m	m		Lowercase m
110	6E	01101110	n	n		Lowercase n
111	6F	01101111	o	o		Lowercase o
112	70	01110000	p	p		Lowercase p
113	71	01110001	q	q		Lowercase q
114	72	01110010	r	r		Lowercase r
115	73	01110011	s	s		Lowercase s
116	74	01110100	t	t		Lowercase t
117	75	01110101	u	u		Lowercase u
118	76	01110110	v	v		Lowercase v
119	77	01110111	w	w		Lowercase w
120	78	01111000	x	x		Lowercase x
121	79	01111001	y	y		Lowercase y
122	7A	01111010	z	z		Lowercase z
123	7B	01111011	{	{		Opening brace
124	7C	01111100		|		Vertical bar
125	7D	01111101	}	}		Closing brace
126	7E	01111110	~	~		Equivalency sign - tilde
127	7F	01111111				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 ISO 8859-1, also called ISO Latin-1. Codes 128-159 contain the Microsoft® Windows Latin-1 extended characters.

DEC	HEX	BIN	Symbol	HTML Number	HTML Name	Description
128	80	10000000	€	€	€	Euro sign
129	81	10000001				
130	82	10000010	,	‚	‚	Single low-9 quotation mark
131	83	10000011	ƒ	ƒ	ƒ	Latin small letter f with hook
132	84	10000100	„	„	„	Double low-9 quotation mark
133	85	10000101	...	…	…	Horizontal ellipsis
134	86	10000110	†	†	†	Dagger
135	87	10000111	‡	‡	‡	Double dagger
136	88	10001000	^	ˆ	ˆ	Modifier letter circumflex accent
137	89	10001001	‰	‰	‰	Per mille sign
138	8A	10001010	Š	Š	Š	Latin capital letter S with caron
139	8B	10001011	‹	‹	‹	Single left-pointing angle quotation
140	8C	10001100	Œ	Œ	Œ	Latin capital ligature OE
141	8D	10001101				
142	8E	10001110	Ž	Ž		Latin captial letter Z with caron
143	8F	10001111				
144	90	10010000				
145	91	10010001	`	‘	‘	Left single quotation mark
146	92	10010010	'	’	’	Right single quotation mark
147	93	10010011	“	“	“	Left double quotation mark
148	94	10010100	”	”	”	Right double quotation mark
149	95	10010101	•	•	•	Bullet
150	96	10010110	–	–	–	En dash
151	97	10010111	—	—	—	Em dash
152	98	10011000	~	˜	˜	Small tilde
153	99	10011001	™	™	™	Trade mark sign
154	9A	10011010	š	š	š	Latin small letter S with caron
155	9B	10011011	›	›	›	Single right-pointing angle quotation mark
156	9C	10011100	œ	œ	œ	Latin small ligature oe
157	9D	10011101				
158	9E	10011110	ž	ž		Latin small letter z with caron
159	9F	10011111	ÿ	Ÿ	Ÿ	Latin capital letter Y with diaeresis
160	A0	10100000		 	 	Non-breaking space
161	A1	10100001	¡	¡	¡	Inverted exclamation mark
162	A2	10100010	¢	¢	¢	Cent sign
163	A3	10100011	£	£	£	Pound sign
164	A4	10100100	¤	¤	¤	Currency sign
165	A5	10100101	¥	¥	¥	Yen sign
166	A6	10100110	¦	¦	¦	Pipe, Broken vertical bar
167	A7	10100111	§	§	§	Section sign
168	A8	10101000	¨	¨	¨	Spacing diaeresis - umlaut
169	A9	10101001	©	©	©	Copyright sign
170	AA	10101010	ª	ª	ª	Feminine ordinal indicator
171	AB	10101011	«	«	«	Left double angle quotes
172	AC	10101100	¬	¬	¬	Not sign
173	AD	10101101		­	­	Soft hyphen
174	AE	10101110	®	®	®	Registered trade mark sign

175	AF	10101111	—	¯	¯	Spacing macron - overline
176	B0	10110000	°	°	°	Degree sign
177	B1	10110001	±	±	±	Plus-or-minus sign
178	B2	10110010	²	²	²	Superscript two - squared
179	B3	10110011	³	³	³	Superscript three - cubed
180	B4	10110100	´	´	´	Acute accent - spacing acute
181	B5	10110101	μ	µ	µ	Micro sign
182	B6	10110110	¶	¶	¶	Pilcrow sign - paragraph sign
183	B7	10110111	·	·	·	Middle dot - Georgian comma
184	B8	10111000	¸	¸	¸	Spacing cedilla
185	B9	10111001	¹	¹	¹	Superscript one
186	BA	10111010	º	º	º	Masculine ordinal indicator
187	BB	10111011	»	»	»	Right double angle quotes
188	BC	10111100	¼	¼	¼	Fraction one quarter
189	BD	10111101	½	½	½	Fraction one half
190	BE	10111110	¾	¾	¾	Fraction three quarters
191	BF	10111111	¿	¿	?	Inverted question mark
192	C0	11000000	À	À	À	Latin capital letter A with grave
193	C1	11000001	Á	Á	Á	Latin capital letter A with acute
194	C2	11000010	Â	Â	Â	Latin capital letter A with circumflex
195	C3	11000011	Ã	Ã	Ã	Latin capital letter A with tilde
196	C4	11000100	Ä	Ä	Ä	Latin capital letter A with diaeresis
197	C5	11000101	Å	Å	Å	Latin capital letter A with ring above
198	C6	11000110	Æ	Æ	Æ	Latin capital letter AE
199	C7	11000111	Ç	Ç	Ç	Latin capital letter C with cedilla
200	C8	11001000	È	È	È	Latin capital letter E with grave
201	C9	11001001	É	É	É	Latin capital letter E with acute
202	CA	11001010	Ê	Ê	Ê	Latin capital letter E with circumflex
203	CB	11001011	Ë	Ë	Ë	Latin capital letter E with diaeresis
204	CC	11001100	Ì	Ì	Ì	Latin capital letter I with grave
205	CD	11001101	Í	Í	Í	Latin capital letter I with acute
206	CE	11001110	Î	Î	Î	Latin capital letter I with circumflex
207	CF	11001111	Ï	Ï	Ï	Latin capital letter I with diaeresis
208	D0	11010000	Ð	Ð	Ð	Latin capital letter ETH
209	D1	11010001	Ñ	Ñ	Ñ	Latin capital letter N with tilde
210	D2	11010010	Ò	Ò	Ò	Latin capital letter O with grave
211	D3	11010011	Ó	Ó	Ó	Latin capital letter O with acute
212	D4	11010100	Ô	Ô	Ô	Latin capital letter O with circumflex
213	D5	11010101	Õ	Õ	Õ	Latin capital letter O with tilde
214	D6	11010110	Ö	Ö	Ö	Latin capital letter O with diaeresis
215	D7	11010111	×	×	×	Multiplication sign
216	D8	11011000	Ø	Ø	Ø	Latin capital letter O with slash
217	D9	11011001	Ù	Ù	Ù	Latin capital letter U with grave
218	DA	11011010	Ú	Ú	Ú	Latin capital letter U with acute
219	DB	11011011	Û	Û	Û	Latin capital letter U with circumflex
220	DC	11011100	Ü	Ü	Ü	Latin capital letter U with diaeresis
221	DD	11011101	Ý	Ý	Ý	Latin capital letter Y with acute
222	DE	11011110	Þ	Þ	Þ	Latin capital letter THORN
223	DF	11011111	ß	ß	ß	Latin small letter sharp s - ess-zed
224	E0	11100000	à	à	à	Latin small letter a with grave
225	E1	11100001	á	á	á	Latin small letter a with acute

226	E2	11100010	â	â	â	Latin small letter a with circumflex
227	E3	11100011	ã	ã	ã	Latin small letter a with tilde
228	E4	11100100	ä	ä	ä	Latin small letter a with diaeresis
229	E5	11100101	å	å	å	Latin small letter a with ring above
230	E6	11100110	æ	æ	æ	Latin small letter æ
231	E7	11100111	ç	ç	ç	Latin small letter c with cedilla
232	E8	11101000	è	è	è	Latin small letter e with grave
233	E9	11101001	é	é	é	Latin small letter e with acute
234	EA	11101010	ê	ê	ê	Latin small letter e with circumflex
235	EB	11101011	ë	ë	ë	Latin small letter e with diaeresis
236	EC	11101100	ì	ì	ì	Latin small letter i with grave
237	ED	11101101	í	í	í	Latin small letter i with acute
238	EE	11101110	î	î	î	Latin small letter i with circumflex
239	EF	11101111	ï	ï	ï	Latin small letter i with diaeresis
240	F0	11110000	ð	ð	ð	Latin small letter eth
241	F1	11110001	ñ	ñ	ñ	Latin small letter n with tilde
242	F2	11110010	ò	ò	ò	Latin small letter o with grave
243	F3	11110011	ó	ó	ó	Latin small letter o with acute
244	F4	11110100	ô	ô	ô	Latin small letter o with circumflex
245	F5	11110101	õ	õ	õ	Latin small letter o with tilde
246	F6	11110110	ö	ö	ö	Latin small letter o with diaeresis
247	F7	11110111	÷	÷	÷	Division sign
248	F8	11111000	ø	ø	ø	Latin small letter o with slash
249	F9	11111001	ù	ù	ù	Latin small letter u with grave
250	FA	11111010	ú	ú	ú	Latin small letter u with acute
251	FB	11111011	û	û	û	Latin small letter u with circumflex
252	FC	11111100	ü	ü	ü	Latin small letter u with diaeresis
253	FD	11111101	ý	ý	ý	Latin small letter y with acute
254	FE	11111110	þ	þ	þ	Latin small letter thorn
255	FF	11111111	ÿ	ÿ	ÿ	Latin small letter y with diaeresis