

# ASCII Chart

Decimal	Binary	Octal	Hexadecimal	Symbol	Description
0	0	0	0	NUL	Null char
1	1	1	1	SOH	Start of Heading
2	10	2	2	STX	Start of Text
3	11	3	3	ETX	End of Text
4	100	4	4	EOT	End of Transmission
5	101	5	5	ENQ	Enquiry
6	110	6	6	ACK	Acknowledgement
7	111	7	7	BEL	Bell
8	1000	10	8	BS	Back Space
9	1001	11	9	HT	Horizontal Tab
10	1010	12	0A	LF	Line Feed
11	1011	13	0B	VT	Vertical Tab
12	1100	14	0C	FF	Form Feed
13	1101	15	0D	CR	Carriage Return
14	1110	16	0E	SO	Shift Out / X-On
15	1111	17	0F	SI	Shift In / X-Off
16	10000	20	10	DLE	Data Line Escape
17	10001	21	11	DC1	Device Control 1 (oft.XON)
18	10010	22	12	DC2	Device Control 2
19	10011	23	13	DC3	Device Control 3 (oft.XOFF)
20	10100	24	14	DC4	Device Control 4
21	10101	25	15	NAK	Negative Acknowledgement
22	10110	26	16	SYN	Synchronous Idle
23	10111	27	17	ETB	End of Transmit Block
24	11000	30	18	CAN	Cancel

Decimal	Binary	Octal	Hexadecimal	Symbol	Description
25	11001	31	19	EM	End of Medium
26	11010	32	1A	SUB	Substitute
27	11011	33	1B	ESC	Escape
28	11100	34	1C	FS	File Separator
29	11101	35	1D	GS	Group Separator
30	11110	36	1E	RS	Record Separator
31	11111	37	1F	US	Unit Separator
32	100000	40	20	SPACE	Space
33	100001	41	21	!	Exclamation mark
34	100010	42	22	“	Double quotes (or speech marks)
35	100011	43	23	#	Number
36	100100	44	24	\$	Dollar
37	100101	45	25	%	Percent
38	100110	46	26	&	Ampersand
39	100111	47	27	‘	Single quote
40	101000	50	28	(	Open parenthesis (or open bracket)
41	101001	51	29	)	Close parenthesis (or close bracket)
42	101010	52	2A	*	Asterisk
43	101011	53	2B	+	Plus
44	101100	54	2C	,	Comma
45	101101	55	2D	-	Hyphen
46	101110	56	2E	.	Period, dot or full stop
47	101111	57	2F	/	Slash or divide
48	110000	60	30	0	Zero
49	110001	61	31	1	One
50	110010	62	32	2	Two
51	110011	63	33	3	Three
52	110100	64	34	4	Four
53	110101	65	35	5	Five

Decimal	Binary	Octal	Hexadecimal	Symbol	Description
54	110110	66	36	6	Six
55	110111	67	37	7	Seven
56	111000	70	38	8	Eight
57	111001	71	39	9	Nine
58	111010	72	3A	:	Colon
59	111011	73	3B	;	Semicolon
60	111100	74	3C	<	Less than (or open angled bracket)
61	111101	75	3D	=	Equals
62	111110	76	3E	>	Greater than (or closeangled bracket)
63	111111	77	3F	?	Question mark
64	1000000	100	40	@	At symbol
65	1000001	101	41	A	Uppercase A
66	1000010	102	42	B	Uppercase B
67	1000011	103	43	C	Uppercase C
68	1000100	104	44	D	Uppercase D
69	1000101	105	45	E	Uppercase E
70	1000110	106	46	F	Uppercase F
71	1000111	107	47	G	Uppercase G
72	1001000	110	48	H	Uppercase H
73	1001001	111	49	I	Uppercase I
74	1001010	112	4A	J	Uppercase J
75	1001011	113	4B	K	Uppercase K
76	1001100	114	4C	L	Uppercase L
77	1001101	115	4D	M	Uppercase M
78	1001110	116	4E	N	Uppercase N
79	1001111	117	4F	O	Uppercase O
80	1010000	120	50	P	Uppercase P
81	1010001	121	51	Q	Uppercase Q
82	1010010	122	52	R	Uppercase R

Decimal	Binary	Octal	Hexadecimal	Symbol	Description
83	1010011	123	53	S	Uppercase S
84	1010100	124	54	T	Uppercase T
85	1010101	125	55	U	Uppercase U
86	1010110	126	56	V	Uppercase V
87	1010111	127	57	W	Uppercase W
88	1011000	130	58	X	Uppercase X
89	1011001	131	59	Y	Uppercase Y
90	1011010	132	5A	Z	Uppercase Z
91	1011011	133	5B	[	Opening bracket
92	1011100	134	5C	\	Backslash
93	1011101	135	5D	]	Closing bracket
94	1011110	136	5E	^	Caret - circumflex
95	1011111	137	5F	_	Underscore
96	1100000	140	60	`	Grave accent
97	1100001	141	61	a	Lowercase a
98	1100010	142	62	b	Lowercase b
99	1100011	143	63	c	Lowercase c
100	1100100	144	64	d	Lowercase d
101	1100101	145	65	e	Lowercase e
102	1100110	146	66	f	Lowercase f
103	1100111	147	67	g	Lowercase g
104	1101000	150	68	h	Lowercase h
105	1101001	151	69	i	Lowercase i
106	1101010	152	6A	j	Lowercase j
107	1101011	153	6B	k	Lowercase k
108	1101100	154	6C	l	Lowercase l
109	1101101	155	6D	m	Lowercase m
110	1101110	156	6E	n	Lowercase n
111	1101111	157	6F	o	Lowercase o
112	1110000	160	70	p	Lowercase p

Decimal	Binary	Octal	Hexadecimal	Symbol	Description
113	1110001	161	71	q	Lowercase q
114	1110010	162	72	r	Lowercase r
115	1110011	163	73	s	Lowercase s
116	1110100	164	74	t	Lowercase t
117	1110101	165	75	u	Lowercase u
118	1110110	166	76	v	Lowercase v
119	1110111	167	77	w	Lowercase w
120	1111000	170	78	x	Lowercase x
121	1111001	171	79	y	Lowercase y
122	1111010	172	7A	z	Lowercase z
123	1111011	173	7B	{	Opening brace
124	1111100	174	7C		Vertical bar
125	1111101	175	7D	}	Closing brace
126	1111110	176	7E	~	Equivalency sign - tilde
127	1111111	177	7F	DEL	Delete