

ASCII Conversion Chart

ASCII is an acronym for American Standard Code for Information Interchange. It consists of 96 printable and 32 unprintable characters. The following conversion table includes Binary, Decimal, Octal, Hexadecimal, and ASCII. The unprintable characters are defined below:

ASCII Symbol Definitions

Symbol	Definition	Symbol	Definition
ACK	acknowledge	FS	file separator
BEL	bell	GS	group separator
BS	backspace	HT	horizontal tabulation
CAN	cancel	LF	line feed
CR	carriage return	NAK	negative acknowledgement
DC	device control	NUL	null
DEL	delete	RS	record shipment
DLE	data link escape	SI	shift in
EM	end of medium	SO	shift out
ENQ	enquiry	SOH	start of heading
EOT	end of transmission	SP	space
ESC	escape	STX	start of text
ETB	end of transmission	SUB	substitute
ETX	end of text	SYN	synchronous idle
FF	form feed	US	unit separator
		VT	vertical tabulation

Binary	Decimal	Octal	Hex	ASCII
0000000	0	0	0	NUL
0000001	1	1	1	SOH
0000010	2	2	2	STX
0000011	3	3	3	ETX
0000100	4	4	4	EOT
0000101	5	5	5	ENQ
0000110	6	6	6	ACK
0000111	7	7	7	BEL
0001000	8	10	8	BS
0001001	9	11	9	HT
0001010	10	12	A	LF
0001011	11	13	B	VT
0001100	12	14	C	FF
0001101	13	15	D	CR
0001110	14	16	E	SO
0001111	15	17	F	SI
0010000	16	20	10	DLE
0010001	17	21	11	DC1
0010010	18	22	12	DC2
0010011	19	23	13	DC3
0010100	20	24	14	DC4
0010101	21	25	15	NAK
0010110	22	26	16	SYN
0010111	23	27	17	ETB
0011000	24	30	18	CAN
0011001	25	31	19	EM
0011010	26	32	1A	SUB
0011011	27	33	1B	ESC
0011100	28	34	1C	FS
0011101	29	35	1D	GS
0011110	30	36	1E	RS
0011111	31	37	1F	US
0100000	32	40	20	SP
0100001	33	41	21	!
0100010	34	42	22	"
0100011	35	43	23	#
0100100	36	44	24	\$
0100101	37	45	25	%
0100110	38	46	26	&
0100111	39	47	27	'
0101000	40	50	28	(
0101001	41	51	29)
0101010	42	52	2A	*

Binary	Decimal	Octal	Hex	ASCII
0101011	43	53	2B	+
0101100	44	54	2C	,
0101101	45	55	2D	-
0101110	46	56	2E	.
0101111	47	57	2F	/
0110000	48	60	30	0
0110001	49	61	31	1
0110010	50	62	32	2
0110011	51	63	33	3
0110100	52	64	34	4
0110101	53	65	35	5
0110110	54	66	36	6
0110111	55	67	37	7
0111000	56	70	38	8
0111001	57	71	39	9
0111010	58	72	3A	:
0111011	59	73	3B	;
0111100	60	74	3C	<
0111101	61	75	3D	=
0111110	62	76	3E	>
0111111	63	77	3F	?
1000000	64	100	40	@
1000001	65	101	41	A
1000010	66	102	42	B
1000011	67	103	43	C
1000100	68	104	44	D
1000101	69	105	45	E
1000110	70	106	46	F
1000111	71	107	47	G
1001000	72	110	48	H
1001001	73	111	49	I
1001010	74	112	4A	J
1001011	75	113	4B	K
1001100	76	114	4C	L
1001101	77	115	4D	M
1001110	78	116	4E	N
1001111	79	117	4F	O
1010000	80	120	50	P
1010001	81	121	51	Q
1010010	82	122	52	R
1010011	83	123	53	S
1010100	84	124	54	T
1010101	85	125	55	U

Binary	Decimal	Octal	Hex	ASCII
1010110	86	126	56	V
1010111	87	127	57	W
1011000	88	130	58	X
1011001	89	131	59	Y
1011010	90	132	5A	Z
1011011	91	133	5B	[
1011100	92	134	5C	\
1011101	93	135	5D]
1011110	94	136	5E	^
1011111	95	137	5F	_
1100000	96	140	60	`
1100001	97	141	61	a
1100010	98	142	62	b
1100011	99	143	63	c
1100100	100	144	64	d
1100101	101	145	65	e
1100110	102	146	66	f
1100111	103	147	67	g
1101000	104	150	68	h
1101001	105	151	69	i
1101010	106	152	6A	j
1101011	107	153	6B	k
1101100	108	154	6C	l
1101101	109	155	6D	m
1101110	110	156	6E	n
1101111	111	157	6F	o
1110000	112	160	70	p
1110001	113	161	71	q
1110010	114	162	72	r
1110011	115	163	73	s
1110100	116	164	74	t
1110101	117	165	75	u
1110110	118	166	76	v
1110111	119	167	77	w
1111000	120	170	78	x
1111001	121	171	79	y
1111010	122	172	7A	z
1111011	123	173	7B	{
1111100	124	174	7C	
1111101	125	175	7D	}
1111110	126	176	7E	~
1111111	127	177	7F	DEL