

ASCII

American Standard Code for Information Interchange

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ASCII is a 7-bit alphanumeric, symbol and communications control code. As an example, the ASCII code for 'M' is column 4 and row D so 'M' = 4D hex.

					b7	0	0	0	0	1	1	1	1
					b6	0	0	1	1	0	0	1	1
					b5	0	1	0	1	0	1	0	1
b4	b3	b2	b1	(hex)	0	1	2	3	4	5	6	7	
0	0	0	0	0	NUL	DLE	SP	0	@	P	`	p	
0	0	0	1	1	SOH	DC1	!	1	A	Q	a	q	
0	0	1	0	2	STX	DC2	"	2	B	R	b	r	
0	0	1	1	3	ETX	DC3	#	3	C	S	c	s	
0	1	0	0	4	EOT	DC4	\$	4	D	T	d	t	
0	1	0	1	5	ENQ	NAK	%	5	E	U	e	u	
0	1	1	0	6	ACK	SYN	&	6	F	V	f	v	
0	1	1	1	7	BEL	ETB	'	7	G	W	g	w	
1	0	0	0	8	BS	CAN	(	8	H	X	h	x	
1	0	0	1	9	HT	EM	)	9	I	Y	i	y	
1	0	1	0	A	LF	SUB	*	:	J	Z	j	z	
1	0	1	1	B	VT	ESC	+	;	K	[	k	{	
1	1	0	0	C	FF	FS	,	<	L	\	l	|	
1	1	0	1	D	CR	GS	-	=	M	]	m	}	
1	1	1	0	E	SO	RS	.	>	N	^	n	~	
1	1	1	1	F	SI	US	/	?	O	_	o	DEL	

Nul	Null	DLE	Data Link Escape (1)
SOH	Start of Heading (1)	DC1	Device Control 1
STX	Start of Text (1)	DC2	Device Control 2
ETX	End of Text (1)	DC3	Device Control 3
EOT	End of Transmission (1)	DC4	Device Control 4
ENQ	Enquiry (1)	NAK	Negative Acknowledge (1)
ACK	Acknowledge (1)	SYN	Synchronous Idle (1)
BEL	Bell	ETB	End of Transmission Block (1)
BS	Backspace (2)	CAN	Cancel
HT	Horizontal Tabulation (2)	EM	End of Medium
LF	Line Feed (2)	SUB	Substitute
VT	Vertical Tabulation (2)	ESC	Escape
FF	Form Feed (2)	FS	File Separator (3)
CR	Carriage Return (2)	GS	Group Separator (3)
SO	Shift Out	RS	Record Separator (3)
SI	Shift In	US	Unit Separator (3)
		DEL	Delete

Note: (1) = Comm control, (2) = Format Control, and (3) = Information Separators