

## ASCII Character Table

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### 7 Bit ASCII Character Table

ASCII Character	Dec.	Hex
NUL	000	00
SOH	001	01
STX	002	02
ETX	003	03
EOT	004	04
ENQ	005	05
ACK	006	06
BEL	007	07
BS	008	08
HT	009	09
LF	010	0A
VT	011	0B
FF	012	0C
CR	013	0D
SO	014	0E
SI	015	0F
DLE	016	10
DC1	017	11
DC2	018	12
DC3	019	13
DC4	020	14
NAK	021	15
SYN	022	16
ETB	023	17
CAN	024	18
EM	025	19
SUB	026	1A
ESC	027	1B
FS	028	1C
GS	029	1D
RS	030	1E
US	031	1F
SPACE	032	20
!	033	21
"	034	22
#	035	23
\$	036	24
%	037	25
&	038	26
'	039	27
(	040	28
)	041	29
*	042	2A

ASCII Character	Dec.	Hex
+	043	2B
,	044	2C
-	045	2D
.	046	2E
/	047	2F
0	048	30
1	049	31
2	050	32
3	051	33
4	052	34
5	053	35
6	054	36
7	055	37
8	056	38
9	057	39
:	058	3A
;	059	3B
<	060	3C
=	061	3D
>	062	3E
?	063	3F
@	064	40
A	065	41
B	066	42
C	067	43
D	068	44
E	069	45
F	070	46
G	071	47
H	072	48
I	073	49
J	074	4A
K	075	4B
L	076	4C
M	077	4D
N	078	4E
O	079	4F
P	080	50
Q	081	51
R	082	52
S	083	53
T	084	54
U	085	55

ASCII Character	Dec.	Hex
V	086	56
W	087	57
X	088	58
Y	089	59
Z	090	5A
[	091	5B
\	092	5C
]	093	5D
^	094	5E
_	095	5F
`	096	60
a	097	61
b	098	62
c	099	63
d	100	64
e	101	65
f	102	66
g	103	67
h	104	68
i	105	69
j	106	6A
k	107	6B
l	108	6C
m	109	6D
n	110	6E
o	111	6F
p	112	70
q	113	71
r	114	72
s	115	73
t	116	74
u	117	75
v	118	76
w	119	77
x	120	78
y	121	79
z	122	7A
{	123	7B
	124	7C
}	125	7D
~	126	7E
DEL	127	7F

## Control Code Legend

YDec.	Hex	Control Code	Character	Description
000	00	Ctrl @	NULL	Null
001	01	Ctrl A	SOH	Start Of Header
002	02	Ctrl B	STX	Start of Text
003	03	Ctrl C	ETX	End of Text
004	04	Ctrl D	EOT	End of Transmission
005	05	Ctrl E	ENQ	Enquiry
006	06	Ctrl F	ACK	Acknowledge
007	07	Ctrl G	BELL	Bell
008	08	Ctrl H	BS	Backspace
009	09	Ctrl I	HT	Horizontal Tab
010	0A	Ctrl J	LF	Line Feed
011	0B	Ctrl K	VT	Vertical Tab
012	0C	Ctrl L	FF	Form Feed
013	0D	Ctrl M	CR	Carriage Return
014	0E	Ctrl N	SO	Shift Out
015	0F	Ctrl O	SI	Shift In
016	10	Ctrl P	DLE	Data Link Escape
017	11	Ctrl Q	DC1	Device Control 1
018	12	Ctrl R	DC2	Device Control 2
019	13	Ctrl S	DC3	Device Control 3
020	14	Ctrl T	DC4	Device Control 4
021	15	Ctrl U	NAK	Negative Acknowledge
022	16	Ctrl V	SYN	Synchronous Idle
023	17	Ctrl W	ETB	End of Transmission Block
024	18	Ctrl X	CAN	Cancel
025	19	Ctrl Y	EM	End of Medium
026	1A	Ctrl Z	SUB	Substitute
027	1B	Ctrl [	ESC	Escape
028	1C	Ctrl \	FS	File Separator
029	1D	Ctrl ]	GS	Group Separator
030	1E	Ctrl ^	RS	Record Separator
031	1F	Ctrl _	US	Unit Separator

## ASCII Standard

ASCII is an acronym for *American Standard Code for Information Interchange*. This is a 7 bit code but the full ASCII code is normally used as an 8 bit word, either in parallel or serial form. The last of these 8 bits is reserved for a *parity*, or error testing, bit. This code provides a standard means of representing data and is essential in enabling data transfer between services and equipment.