

ascii

ascii is an acronym for "american standard code for information interchange". used for storing/displaying text, simple formatting and a few other control characters. below is the ascii table, giving the decimal value, the hexadecimal value, the glyph and the binary value for each. the binary value is how its stored on a disk.

if you are interested in html codes; [click here](#)









000	00	█	00000000	032	20	█	00100000	064	40	P	01000000	096	60	█	01100000
001	01	☐	00000001	033	21	▯	00100001	065	41	A	01000001	097	61	a	01100001
002	02	☐	00000010	034	22	"	00100010	066	42	B	01000010	098	62	b	01100010
003	03	☐	00000011	035	23	#	00100011	067	43	C	01000011	099	63	c	01100011
004	04	☐	00000100	036	24	\$	00100100	068	44	D	01000100	100	64	d	01100100
005	05	☐	00000101	037	25	%	00100101	069	45	E	01000101	101	65	e	01100101
006	06	☐	00000110	038	26	&	00100110	070	46	F	01000110	102	66	f	01100110
007	07	☐	00000111	039	27	'	00100111	071	47	G	01000111	103	67	g	01100111
008	08	☐	00001000	040	28	<	00101000	072	48	H	01001000	104	68	h	01101000
009	09	☐	00001001	041	29	>	00101001	073	49	I	01001001	105	69	i	01101001
010	0A	☐	00001010	042	2A	*	00101010	074	4A	J	01001010	106	6A	j	01101010
011	0B	☐	00001011	043	2B	+	00101011	075	4B	K	01001011	107	6B	k	01101011
012	0C	☐	00001100	044	2C	,	00101100	076	4C	L	01001100	108	6C	l	01101100
013	0D	☐	00001101	045	2D	-	00101101	077	4D	M	01001101	109	6D	m	01101101
014	0E	☐	00001110	046	2E	.	00101110	078	4E	N	01001110	110	6E	n	01101110
015	0F	☐	00001111	047	2F	/	00101111	079	4F	O	01001111	111	6F	o	01101111
016	10	☐	00010000	048	30	0	00110000	080	50	P	01010000	112	70	p	01110000
017	11	☐	00010001	049	31	1	00110001	081	51	Q	01010001	113	71	q	01110001
018	12	☐	00010010	050	32	2	00110010	082	52	R	01010010	114	72	r	01110010
019	13	☐	00010011	051	33	3	00110011	083	53	S	01010011	115	73	s	01110011
020	14	☐	00010100	052	34	4	00110100	084	54	T	01010100	116	74	t	01110100
021	15	☐	00010101	053	35	5	00110101	085	55	U	01010101	117	75	u	01110101
022	16	☐	00010110	054	36	6	00110110	086	56	U	01010110	118	76	u	01110110
023	17	☐	00010111	055	37	7	00110111	087	57	W	01010111	119	77	w	01110111
024	18	☐	00011000	056	38	8	00111000	088	58	X	01011000	120	78	x	01111000
025	19	☐	00011001	057	39	9	00111001	089	59	Y	01011001	121	79	y	01111001
026	1A	☐	00011010	058	3A	:	00111010	090	5A	Z	01011010	122	7A	z	01111010
027	1B	☐	00011011	059	3B	;	00111011	091	5B	[01011011	123	7B	{	01111011
028	1C	☐	00011100	060	3C	<	00111100	092	5C	/	01011100	124	7C		01111100
029	1D	☐	00011101	061	3D	=	00111101	093	5D]	01011101	125	7D	~	01111101
030	1E	☐	00011110	062	3E	>	00111110	094	5E	^	01011110	126	7E	~	01111110
031	1F	☐	00011111	063	3F	?	00111111	095	5F	_	01011111	127	7F	~	01111111

0-31 and 127 are control codes. the glyph is an onscreen representation

000 NUL - null	017 DC1 - device control one
001 SOH - start of header	018 DC2 - device control two
002 STX - start of text	019 DC3 - device control three
003 ETX - end of text	020 DC4 - device control four
004 EOT - end of transmission	021 NAK - negative acknowledge
005 ENQ - enquire	022 SYN - synchronous idle
006 ACK - acknowledge	023 ETB - end of transmission block
007 BEL - bell	024 CAN - cancel
008 BS - backspace	025 EM - end of medium
009 HT - horizontal tabulation	026 SIB - substitute
010 LF - line feed	027 ESC - escape
011 VT - vertical tabulation	028 FS - file separator
012 FF - form feed	029 GS - group separator
013 CR - carriage return	030 RS - record separator
014 SO - shift out	031 US - unit separator
015 SI - shift in	
016 DLE - data link escape	127 DEL - delete

128 to 255 vary; from dos or notepad (font == terminal)

128 80	10000000	160 A0	10100000	192 C0	11000000	224 E0	11100000
129 81	10000001	161 A1	10100001	193 C1	11000001	225 E1	11100001
130 82	10000010	162 A2	10100010	194 C2	11000010	226 E2	11100010
131 83	10000011	163 A3	10100011	195 C3	11000011	227 E3	11100011
132 84	10000100	164 A4	10100100	196 C4	11000100	228 E4	11100100
133 85	10000101	165 A5	10100101	197 C5	11000101	229 E5	11100101
134 86	10000110	166 A6	10100110	198 C6	11000110	230 E6	11100110
135 87	10000111	167 A7	10100111	199 C7	11000111	231 E7	11100111
136 88	10001000	168 A8	10101000	200 C8	11001000	232 E8	11101000
137 89	10001001	169 A9	10101001	201 C9	11001001	233 E9	11101001
138 8A	10001010	170 AA	10101010	202 CA	11001010	234 EA	11101010
139 8B	10001011	171 AB	10101011	203 CB	11001011	235 EB	11101011
140 8C	10001100	172 AC	10101100	204 CC	11001100	236 EC	11101100
141 8D	10001101	173 AD	10101101	205 CD	11001101	237 ED	11101101
142 8E	10001110	174 AE	10101110	206 CE	11001110	238 EE	11101110
143 8F	10001111	175 AF	10101111	207 CF	11001111	239 EF	11101111
144 90	10010000	176 B0	10110000	208 D0	11010000	240 F0	11110000
145 91	10010001	177 B1	10110001	209 D1	11010001	241 F1	11110001
146 92	10010010	178 B2	10110010	210 D2	11010010	242 F2	11110010
147 93	10010011	179 B3	10110011	211 D3	11010011	243 F3	11110011
148 94	10010100	180 B4	10110100	212 D4	11010100	244 F4	11110100
149 95	10010101	181 B5	10110101	213 D5	11010101	245 F5	11110101
150 96	10010110	182 B6	10110110	214 D6	11010110	246 F6	11110110
151 97	10010111	183 B7	10110111	215 D7	11010111	247 F7	11110111
152 98	10011000	184 B8	10111000	216 D8	11011000	248 F8	11111000
153 99	10011001	185 B9	10111001	217 D9	11011001	249 F9	11111001
154 9A	10011010	186 BA	10111010	218 DA	11011010	250 FA	11111010
155 9B	10011011	187 BB	10111011	219 DB	11011011	251 FB	11111011
156 9C	10011100	188 BC	10111100	220 DC	11011100	252 FC	11111100
157 9D	10011101	189 BD	10111101	221 DD	11011101	253 FD	11111101

158	9E		10011110	190	BE		10111110	222	DE		11011110	254	FE		11111110
159	9F		10011111	191	BF		10111111	223	DF		11011111	255	FF		11111111

unicode

ascii has been superseded by unicode, a double byte character system designed to store and display a much wider range of letters.(65,536) the extra include foreign languages and mathematical/scientific symbols, plus space for future expansion.

all ascii characters still exist in unicode, either prefixed or suffixed by a null. the difference being big-endian or little-endian respectfully. for more on endians check <http://www.noveltheory.com/TechPapers/endian.asp>. unicode text documents have a two byte header to inform the system of which endian is used.

```

        68,65,6c,6c,6f = hello (ascii)
fe,ff,00,68,00,65,00,6c,00,6c,00,6f = hello (big-endian)
ff,fe,68,00,65,00,6c,00,6c,00,6f,00 = hello (little-endian)

```

unicode is still under development - check <http://www.unicode.org> for details.

to see how unicode is currently displayed on your system or within a particular program. [download ascii and unicode files](#) (1.07mb)

opening the unicode files may take a lot of processor power. you may want to add other foreign languages. in nt see regional settings, you will need the setup cd.

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