ASCII Reference Sheet



What is ASCII?

ASCII (American Standard Code for Information Interchange) is a widely used system for character encoding. It was originally developed in 1963 as a 7-bit system allowing for 128 characters. Symbols 0-31 and 127 were reserved for control characters (e.g. "Backspace" or "Delete") with the numbers 32-126 being used for printable characters. As the 8-bit "byte" became standardized, ASCII was extended to the 8-bit format you see below.

Num.	Bits	Char.
32	00100000	Space
33	00100001	!
34	00100010	"
35	00100011	#
36	00100100	\$
37	00100101	%
38	00100110	&
39	00100111	•
40	00101000	(
41	00101001)
42	00101010	*
43	00101011	+
44	00101100	,
45	00101101	-
46	00101110	
47	00101111	/
48	00110000	0
49	00110001	1
50	00110010	2
51	00110011	3
52	00110100	4
53	00110101	5
54	00110110	6
55	00110111	7
56	00111000	8
57	00111001	9
58	00111010	:
59	00111011	,
60	00111100	<
61	00111101	=
62	00111110	>
63	00111111	?

Num.	Bits	Char.
64	01000000	@
65	01000001	А
66	01000010	В
67	01000011	С
68	01000100	D
69	01000101	E
70	01000110	F
71	01000111	G
72	01001000	Н
73	01001001	I
74	01001010	J
75	01001011	K
76	01001100	L
77	01001101	M
78	01001110	N
79	01001111	0
80	01010000	Р
81	01010001	Q
82	01010010	R
83	01010011	S
84	01010100	Т
85	01010101	U
86	01010110	V
87	01010111	W
88	01011000	X
89	01011001	Y
90	01011010	Z
91	01011011	[
92	01011100	\
93	01011101]
94	01011110	٨
95	01011111	_

Num.	Bits	Char.
96	01100000	`
97	01100001	а
98	01100010	b
99	01100011	С
100	01100100	d
101	01100101	е
102	01100110	f
103	01100111	g
104	01101000	h
105	01101001	i
106	01101010	j
107	01101011	k
108	01101100	I
109	01101101	m
110	01101110	n
111	01101111	0
112	01110000	р
113	01110001	q
114	01110010	r
115	01110011	S
116	01110100	t
117	01110101	u
118	01110110	V
119	01110111	W
120	01111000	Х
121	01111001	у
122	01111010	Z
123	01111011	{
124	01111100	
125	01111101	}
126	01111110	~