



HTML | Charsets

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The web browser displays the alphabets, numbers and some other symbols correctly. This is all possible because of the required character set that web browser uses. The character set or character encoding has different character encoding standards which assign some numbers to these character set which can be used in the internet.

ASCII: American Standard Code for Information Interchange (ASCII) created this character encoding. This character encoding are used in C/C++ programming. It has 128 alphanumeric characters consisting of alphabets(A-Z) and (a-z) and some special symbols like + - * / () @ etc.

ANSI(Windows-1252): American National Standards Institute (ANSI) created character encoding supported 256 characters. It is used as default character set in Microsoft Windows.

ISO-8859-1: It is used as default character set of HTML4 and also supports 256 characters. The International Standards Organization (ISO) defines the standard character sets for different alphabets/languages. It contains numbers, upper and lowercase English letters, and some special characters.



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UTF-8: UTF-8 and UTF-16 standards were developed by Unicode Consortium, because the ISO-8859 character-sets are limited, and not compatible a multilingual environment. It consists all the character and punctuation symbols.

Attribute: Web browser must know the character encoding standard used in the html page and this we do as given below.

Examples:

HTML4

```
<meta http-equiv="Content-Type" content="text/html; charset=ISO-8859-1">
```

HTML5

```
<meta charset="UTF-8">
```

Character set for different character encoding standard: Following list shows different character encoding standards with their characters and their assigned number codes.

Table 1: This table contains characters having same numbers assigned in different character encoding.

NUMBER	ASCII	ANSI	ISO-8859-1	UTF-8	DESCRIPTION
--------	-------	------	------------	-------	-------------

32					Space
----	--	--	--	--	-------

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33	!	Exclamation Mark
34	"	Quotation Mark
35	#	Hash Sign
36	\$	Dollar Sign
37	%	Percent Sign
38	&	Ampersand Sign
39	'	Apostrophe Sign
40	(Opening Paranthesis
41)	Closing Parenthesis
42	*	Asterisk Sign
43	+	Plus Sign
44	,	Comma
45	-	Hyphen/minus Sign
46	.	Full-stop
47	/	Slash/Divide Sign
48	0	Number Zero
49	1	Number One

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50	2	Number Two
51	3	Number Three
52	4	Number Four
53	5	Number Five
54	6	Number Six
55	7	Number Seven
56	8	Number Eight
57	9	Number Nine
58	:	Colon
59	;	Semicolon
60	<	Lessthan Sign
61	=	Equalto Sign
62	>	Greaterthan Sign
63	?	Question Mark
64	@	at Sign
65	A	Letter A
66	B	Letter B

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67	C	Letter C
68	D	Letter D
69	E	Letter E
70	F	Letter F
71	G	Letter G
72	H	Letter H
73	I	Letter I
74	J	Letter J
75	K	Letter K
76	L	Letter L
77	M	Letter M
78	N	Letter N
79	O	Letter O
80	P	Letter P
81	Q	Letter Q
82	R	Letter R
83	S	Letter S



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84	T	Letter T
85	U	Letter U
86	V	Letter V
87	W	Letter W
88	X	Letter X
89	Y	Letter Y
90	Z	Letter Z
91	[Opening Square Bracket
92	\	Backslash
93]	Closing Square Bracket
94	^	Circumflex Accent
95	_	Low Line
96	`	Grave Accent
97	a	Letter a
98	b	Letter b
99	c	Letter c
100	d	Letter d

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101	e	Letter e
102	f	Letter f
103	g	Letter g
104	h	Letter h
105	i	Letter i
106	j	Letter j
107	k	Letter k
108	l	Letter l
109	m	Letter m
110	n	Letter n
111	o	Letter o
112	p	Letter p
113	q	Letter q
114	r	Letter r
115	s	Letter s
116	t	Letter t
117	u	Letter u

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118	v	Letter v
119	w	Letter w
120	x	Letter x
121	y	Letter y
122	z	Letter z
123	{	Opening Curly Bracket
124		Vertical Line
125	}	Closing Curly Bracket
126	~	Tilde

Table 2: This table contains character having different character encoding.

ASCII	ANSI	ISO-8859-1	UTF-8	DESCRIPTION
127				DEL
	128			€
				Not Used
	130			,
	131			f
	132			"



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	133			...
	134			†
	135			‡
	136			^
	137			‰
	138			Š
	139			◁
	140			Œ
141	141	141	141	Not Used
	142			Ž
143	143	143	143	Not Used
144	144	144	144	Not Used
	145			'
	146			'
	147			"
	148			"
	149			•



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				150	–
				151	—
				152	~
				153	™
				154	š
				155	›
				156	œ
157	157	157	157	157	Not Used
				158	ž
				159	ÿ
160	160	160	160	160	no-break Space
				161	ı
				162	ç
				163	£
				164	¤
				165	¥
				166	!



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167	167	167	§
168	168	168	¨
169	169	169	©
170	170	170	ª
171	171	171	«
172	172	172	¬
173	173	173	
174	174	174	®
175	175	175	-
176	176	176	°
177	177	177	±
178	178	178	²
179	179	179	³
180	180	180	´
181	181	181	µ
182	182	182	¶
183	183	183	·

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184	184	184	,
185	185	185	¹
186	186	186	º
187	187	187	»
188	188	188	¼
189	189	189	½
190	190	190	¾
191	191	191	¿
192	192	192	À
193	193	193	Á
194	194	194	Â
195	195	195	Ã
196	196	196	Ä
197	197	197	Å
198	198	198	Æ
199	199	199	Ç
200	200	200	È

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201	201	201	É
202	202	202	Ê
203	203	203	Ë
204	204	204	Ì
205	205	205	Í
206	206	206	Î
207	207	207	Ï
208	208	208	Ð
209	209	209	Ñ
210	210	210	Ò
211	211	211	Ó
212	212	212	Ô
213	213	213	Õ
214	214	214	Ö
215	215	215	×
216	216	216	Ø
217	217	217	Ù

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218	218	218	Ú
219	219	219	Û
220	220	220	Ü
221	221	221	Ý
222	222	222	Þ
223	223	223	ß
224	224	224	à
225	225	225	á
226	226	226	â
227	227	227	ã
228	228	228	ä
229	229	229	å
230	230	230	æ
231	231	231	ç
232	232	232	è
233	233	233	é
234	234	234	ê

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235	235	235	ë
-----	-----	-----	---

236	236	236	ì
-----	-----	-----	---

237	237	237	í
-----	-----	-----	---

238	238	238	î
-----	-----	-----	---

239	239	239	ï
-----	-----	-----	---

240	240	240	ǒ
-----	-----	-----	---

241	241	241	ñ
-----	-----	-----	---

242	242	242	ò
-----	-----	-----	---

243	243	243	ó
-----	-----	-----	---

244	244	244	ô
-----	-----	-----	---

245	245	245	õ
-----	-----	-----	---

246	246	246	ö
-----	-----	-----	---

247	247	247	÷
-----	-----	-----	---

248	248	248	ø
-----	-----	-----	---

249	249	249	ù
-----	-----	-----	---

250	250	250	ú
-----	-----	-----	---

251	251	251	û
-----	-----	-----	---



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252 252 252 ü

253 253 253 ý

254 254 254 þ

255 255 255 ÿ



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