Contact

#### **Formatters**

JSON Formatter

HTML Formatter

XML Formatter

SQL Formatter

#### **Validators**

JSON Validator

HTML Validator

XML Validator - XSD

XPath Tester

Credit Card Number Generator

& Validator

Regular Expression Tester

Java Regular Expression Tester

Cron Expression Generator -

Quartz

#### **Encoders & Decoders**

Url Encoder & Decoder Base 64 Encoder & Decoder QR Code Generator

#### Code Minifiers / Beautifier

JavaScript Beautifier **CSS** Beautifier JavaScript Minifier **CSS Minifier** 

#### Converters

XSD Generator XSLT (XSL Transformer) XML to JSON Converter JSON to XML Converter CSV to XML Converter CSV to JSON Converter Epoch Timestamp To Date

#### Cryptography & Security

Message Digester (MD5, SHA-256, SHA-512) **HMAC** Generator MD5 Generator SHA-256 Generator

# SHA-512 Generator String Escaper & Utilities

String Utilities HTML Escape XML Escape

Java and .Net Escape

JavaScript Escape

JSON Escape

**CSV** Escape SQL Escape

Web Resources

Lorem Ipsum Generator LESS Compiler

List of MIME types

**HTML Entities** 

Url Parser / Query String

Splitter

i18n - Formatting standards &

code snippets

ISO country list - HTML select

snippet

USA state list - HTML select

snippet

#### **HTML Entity List**

Complete list of HTML entities with their numbers and names. Also included is a full list of ASCII characters that can be represented in HTML (i.e. printable characters).

- ASCII Characters
- ISO 8859-1 Characters
- ISO 8859-1 Symbols
- Math Symbols
- **Greek Letters**
- Miscellaneous HTML entities

#### **ASCII Characters (Printable)**

Only printable characters are displayed as control characters (0-31) shouldn't be present in HTML pages since they have no visual representations

Character	Entity Name	Entity Number	Description
		<b> </b> ;	Space
!		<b>&amp;#</b> 33;	Exclamation mark
"		<b>"</b> ;	Quotation mark
#		<b>#</b> ;	Number sign
\$		<b>\$</b> ;	Dollar sign
%		%	Percent sign
&	&	&	Ampersand
•		<b>'</b> ;	Apostrophe
(		<b></b> 0;	Opening/Left Parenthesis
)		)	Closing/Right Parenthesis
*		*	Asterisk
+		+	Plus sign
,		,	Comma
-		-	Hyphen
		<b>.</b> ;	Period
I		/	Slash
0		0	Digit 0
1		<b>1</b> ;	Digit 1
2		2	Digit 2
3		3	Digit 3
4		4	Digit 4
5		& <b>#</b> 53;	Digit 5
6		6	Digit 6
7		7	Digit 7
8		<b>8</b> ;	Digit 8
9		9	Digit 9
:		<b>:</b> ;	Colon
;		<b>&amp;#&lt;/b&gt;59;&lt;/td&gt;&lt;td&gt;Semicolon&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;&lt;&lt;/td&gt;&lt;td&gt;&lt;&lt;/td&gt;&lt;td&gt;&lt;b&gt;%#60&lt;/b&gt;;&lt;/td&gt;&lt;td&gt;Less-than&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;=&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;=&lt;/td&gt;&lt;td&gt;Equals sign&lt;/td&gt;&lt;/tr&gt;&lt;/tbody&gt;&lt;/table&gt;</b>	

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Mexico state list - HTML select snippet Time zone list - HTML select snippet

Contact			
>	>	<b>&gt;</b> ;	Greater than
?		<b>?</b> ;	Question mark
@		@	At sign
Α		<b>&amp;</b> #65;	Uppercase A
В		<b>B</b> ;	Uppercase B
С		<b>&amp;</b> #67;	Uppercase C
D		<b>D</b> ;	Uppercase D
E		<b>E</b> ;	Uppercase E
F		<b>&amp;</b> #70;	Uppercase F
G		G	Uppercase G
Н		H	Uppercase H
I		<b>&amp;</b> #73;	Uppercase I
J		<b>&amp;</b> #74;	Uppercase J
K		<b>&amp;</b> #75;	Uppercase K
L		<b>&amp;</b> #76;	Uppercase L
M		<b>&amp;</b> #77;	Uppercase M
N		<b>&amp;</b> #78;	Uppercase N
О		<b>&amp;</b> #79;	Uppercase O
Р		<b>P</b> ;	Uppercase P
Q		Q	Uppercase Q
R		<b>R</b> ;	Uppercase R
S		<b>S</b> ;	Uppercase S
Т		<b>T</b> ;	Uppercase T
U		<b>U</b> ;	Uppercase U
V		<b>V</b> ;	Uppercase V
W		W	Uppercase W
X		X	Uppercase X
Υ		Y	Uppercase Y
Z		<b>Z</b> ;	Uppercase Z
[		[	Opening/Left square bracket
1		<b>\</b> ;	Backslash
1		<b>]</b> ;	Closing/Right square bracket
۸		<b>%</b> #94;	Caret
_		<b>%</b> #95;	Underscore
`		<b>`</b> ;	Grave accent
а		<b>a</b> ;	Lowercase a
b		<b>&amp;</b> #98;	Lowercase b
С		<b>c</b> ;	Lowercase c
d		<b>d</b> ;	Lowercase d
е		<b>e</b> ;	Lowercase e
f		<b>%</b> #102;	Lowercase f
g		<b>g</b> ;	Lowercase g
h		<b>h</b> ;	Lowercase h

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i	<b>i</b> ;	Lowercase i
j	<b>j</b> ;	Lowercase j
k	<b>&amp;</b> #107;	Lowercase k
I	<b>l</b> ;	Lowercase I
m	<b>m</b> ;	Lowercase m
n	n	Lowercase n
0	o	Lowercase o
р	p	Lowercase p
q	q	Lowercase q
r	<b>r</b> ;	Lowercase r
s	s	Lowercase s
t	t	Lowercase t
u	u	Lowercase u
v	v	Lowercase v
w	w	Lowercase w
x	<b>x</b> ;	Lowercase x
У	y	Lowercase y
z	<b>z</b> ;	Lowercase z
{	<b>{</b> ;	Opening/Left curly brace
l	<b>&amp;</b> #124;	Vertical bar
}	<b>}</b> ;	Closing/Right curly brace
~	<b>~</b> ;	Tilde

# ISO-8859-1 Characters

Full list of supported ISO-8859-1 characters. Notice that the names are case sensitive, hence if you want an uppercase letter, the name should also start with an uppercase letter.

Character	Entity Name	Entity Number	Description
À	À	<b>&amp;</b> #192;	Capital a with grave accent
Á	Á	<b>&amp;</b> #193;	Capital a with acute accent
Â	Â	Â	Capital a with circumflex accent
Ã	Ã	Ã	Capital a with tilde
Ä	Ä	<b>Ä</b> ;	Capital a with umlaut
Å	Å	Å	Capital a with ring
Æ	Æ	Æ	Capital ae
Ç	Ç	Ç	Capital c with cedilla
È	È	<b>&amp;</b> #200;	Capital e with grave accent
É	É	É	Capital e with acute accent
Ê	Ê	Ê	Capital e with circumflex accent
Ë	Ë	Ë	Capital e with umlaut
ì	&lgrave	Ì	Capital i with grave accent
ĺ	ĺ	Í	Capital i with accute accent
î	&lcirc	<b>&amp;</b> #206;	Capital i with circumflex accent
Ϊ	&luml	<b>&amp;</b> #207;	Capital i with umlaut

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Ð	Ð	Ð	Capital eth (Icelandic)
Ñ	Ñ	<b>Ñ</b> ;	Capital n with tilde
Ò	Ò	Ò	Capital o with grave accent
Ó	Ó	Ó	Capital o with accute accent
Ô	Ô	Ô	Capital o with circumflex accent
Õ	Õ	Õ	Capital o with tilde
Ö	Ö	Ö	Capital o with umlaut
Ø	Ø	Ø	Capital o with slash
Ù	Ù	Ù	Capital u with grave accent
Ú	Ú	<b>&amp;</b> #218;	Capital u with acute accent
Û	Û	Û	Capital u with circumflex accent
Ü	Ü	<b>Ü</b> ;	Capital u with umlaut
Ý	Ý	Ý	Capital y with acute accent
Þ	Þ	Þ	Capital thorn (Icelandic)
ß	ß	ß	Lowercase sharp s (German)
à	à	<b>à</b> ;	Lowercase a with grave accent
á	á	á	Lowercase a with acute accent
â	â	<b>â</b> ;	Lowercase a with circumflex accent
ã	ã	<b>ã</b> ;	Lowercase a with tilde
ä	ä	<b>ä</b> ;	Lowercase a with umlaut
å	å	<b>å</b> ;	Lowercase a with ring
æ	æ	æ	Lowercase ae
ç	ç	<b>ç</b> ;	Lowercase c with cedilla
è	è	è	Lowercase e with grave accent
é	é	<b>é</b> ;	Lowercase e with acute accent
ê	ê	<b>ê</b> ;	Lowercase e with circumflex accent
ë	ë	<b>ë</b> ;	Lowercase e with umlaut
ì	ì	<b>ì</b> ;	Lowercase i with grave accent
í	í	<b>í</b> ;	Lowercase i with acute accent
î	î	<b>î</b> ;	Lowercase i with circumflex accent
ï	ï	ï	Lowercase i with umlaut
ð	ð	ð	Lowercase eth (Icelandic)
ñ	ñ	ñ	Lowercase n with tilde
ò	ò	ò	Lowercase o with grave accent
ó	ó	<b></b> 3;	Lowercase o with acute accent
ô	ô	ô	Lowercase o with circumflex accent
õ	õ	<b>õ</b> ;	Lowercase o with tilde
ö	ö	ö	Lowercase o with umlaut
Ø	ø	ø	Lowercase o with slash
ù	ù	<b>ù</b> ;	Lowercase u with grave accent
ú	ú	<b>ú</b> ;	Lowercase u with acute accent
û	û	û	Lowercase u with circumflex accent
ü	ü	ü	Lowercase u with umlaut

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ý	ý	ý	Lowercase y with acute accent
þ	þ	þ	Lowercase thorn (Icelandic)
ÿ	ÿ	ÿ	Lowercase y with umlaut

# ISO-8859-1 Symbols

Full list of supported ISO-8859-1 symbols in HTML.

Symbol	Entity Name	Entity Number	Description
		<b> </b> ;	Non-breaking space
i	¡	¡	Inverted exclamation mark
¢	¢	<b>¢</b> ;	Cent
£	£	£	Pound
n	¤	¤	Currency
¥	¥	¥	Yen
ł	¦	¦	Broken vertical bar
§	§	§	Section
	¨	¨	Spacing diaeresis
©	©	<b>©</b> ;	Copyright
а	ª	ª	Feminine ordinal indicator
<b>«</b>	«	«	Opening/Left angle quotation mark
٦	¬	¬	Negation
	­	­	Soft hyphen
®	®	®	Registered trademark
_	¯	¯	Spacing macron
0	°	°	Degree
±	±	±	Plus or minus
2	²	²	Superscript 2
3	³	³	Superscript 3
,	´	´	Spacing acute
μ	µ	µ	Micro
П	¶	¶	Paragraph
3	¸	¸	Spacing cedilla
1	¹	¹	Superscript 1
0	º	º	Masculine ordinal indicator
»	»	»	Closing/Right angle quotation mark
1/4	¼	¼	Fraction 1/4
1/2	½	½	Fraction 1/2
3/4	¾	<b>¾</b> ;	Fraction 3/4
ડ	¿	¿	Inverted question mark
×	×	×	Multiplication
÷	÷	÷	Divide

# **Math Symbols**

Full list of all supported math symbols in HTML.

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A	∀	<b>∀</b> ;	For all
д	∂	<b>&amp;#</b> 8706;	Part
3	∃	<b>∃</b> ;	Exist
Ø	∅	<b>&amp;</b> #8709;	Empty
$\nabla$	∇	∇	Nabla
€	∈	<b>∈</b> ;	Is in
∉	∉	<b>∉</b> ;	Not in
∋	∋	<b>∋</b> ;	Ni
П	∏	<b>∏</b> ;	Product
Σ	∑	<b>∑</b> ;	Sum
-	−	<b>−</b> ;	Minus
*	∗	<b>∗</b> ;	Asterisk (Lowast)
$\sqrt{}$	√	<b>√</b> ;	Square root
×	∝	<b>∝</b> ;	Proportional to
∞	∞	<b>∞</b> ;	Infinity
<b>∠</b>	∠	<b>∠</b> ;	Angle
٨	∧	<b>∧</b> ;	And
V	∨	<b>&amp;</b> #8744;	Or
Λ	∩	<b>∩</b> ;	Сар
U	∪	<b>∪</b> ;	Сир
ſ	∫	<b>∫</b> ;	Integral
<i>:</i> .	∴	<b>∴</b> ;	Therefore
~	∼	<b>&amp;</b> #8764;	Similar to
≅	≅	<b>&amp;</b> #8773;	Congurent to
≈	≈	<b>&amp;</b> #8776;	Almost equal
≠	≠	<b>≠</b> ;	Not equal
≡	≡	≡	Equivalent
≤	≤	<b>≤</b> ;	Less or equal
≥	≥	<b>≥</b> ;	Greater or equal
С	⊂	<b>⊂</b> ;	Subset of
D	⊃	<b>⊃</b> ;	Superset of
¢	⊄	<b>⊄</b> ;	Not subset of
⊆	⊆	<b>&amp;</b> #8838;	Subset or equal
⊇	⊇	<b>⊇</b> ;	Superset or equal
$\oplus$	⊕	<b>⊕</b> ;	Circled plus
$\otimes$	⊗	<b>⊗</b> ;	Circled times
Т	⊥	<b>&amp;#&lt;/b&gt;8869;&lt;/td&gt;&lt;td&gt;Perpendicular&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;⋅&lt;/td&gt;&lt;td&gt;&lt;b&gt;&amp;#&lt;/b&gt;8901;&lt;/td&gt;&lt;td&gt;Dot operator&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;th&gt;&lt;/th&gt;&lt;th&gt;&lt;/th&gt;&lt;th&gt;&lt;/th&gt;&lt;th&gt;&lt;/th&gt;&lt;/tr&gt;&lt;/tbody&gt;&lt;/table&gt;</b>	

# **Greek Letters**

Full list of all supported greek letters in HTML.

Letter	Entity Name	Entity Number	Description

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A         & Aphra;         & 8913;         Aphra           B         & Setet;         & #914;         Beta           Γ         & Gamma;         & #915;         Gamma           Δ         & Delta;         & #916;         Delta           E         & £psloh;         & #918;         Zeta           H         & Elu;         & #919;         Eta           H         & Elu;         & #919;         Eta           O         & Theta;         & #920;         Theta           I         & I stant         & #921;         I ota           K         & Aspapa;         & #922;         Kappa           A         & Embda;         & #922;         Kappa           A         & Lambda;         & #922;         Kappa           A         & Mula         Mula         Mula           M         & Mul;         & #922;         Kupa           M         & Mul;         & #922;         Mula           M         & Shu;         & #926;         X           O         & Comitron;         & #926;         X           A         & Sho;         & #927;         Omitron           D         & Aspa;	Contact			
Γ         Γ         Γ         Gamma           Δ         &Dolto:         84916;         Dolto           E         &Epsion         84917;         Epsion           Z         &Zela         84918;         Zela           H         &Elu         84950;         Theta           O         Θ         Θ         Theta           I         &Intai         Ι         lota           K         Κ         Κ         Kappa           A         &Lambdu         Κ         Kappa           A         &Lambdu         Κ         Kappa           A         &Lambdu         Λ         Lambdu;           M         Μ         Mu         Mu           N         Ν         Μ         Mu           N         Ν         Ν         Nu           N         Μ         Mu         Mu           N         Μ         Mu         Mu           N         &Mol27         Omicron         Nu           R         &Mol27         Omicron         Ru           P         Ρ         Π         Pl	Α	Α	<b>Α</b> ;	Alpha
Δ         δDelia:         δπ916;         Delta           E         δEpsilon:         84917;         Epsilon           Z         82eta:         84918;         Zeta           H         8Eta:         84919;         Eta           O         87heta:         84920;         Theta           I         8lota:         84922;         Koppa           A         8Lambda:         84922;         Koppa           A         8Lambda:         84922;         Koppa           A         8Lambda:         84923;         Lambda           M         8Mu:         84924;         Mu           N         8Mu:         84925;         Nu           N         8Mu:         84925;         Xu           O         8Omeron:         84926;         Xu           O         8Omeron:         84927;         Omicron           D         8Rho;         84928;         Pr           P         8Rho;         84929;         Rho           Σ         85gma:         84931;         Sigma:           T         81au:         84932;         Tau           Y         8Upsilon:         84933;	В	Β	<b>Β</b> ;	Beta
E Ε Ε Epsilon  Z Ζ Ζ Zeta  H Η: Η Eta  O Θ: Θ Theta  I &lota: Ι Uota  K Κ Κ Kappa  A Λ Λ Lambda  M Μ: Μ Mu  N Ν: Ν Nu  E Ξ Ξ Xi  O Ο Ο Omicron  II Π Π Pi  P Ρ Ρ Rho  X Σ: Σ Sigma  T Τ Τ Tau  Y &Upailon Υ Upailon  D Φ Υ Upailon  D Φ Φ Phi  X Χ: Χ Chi  X Χ: Ψ Pai  A Β β delta  A Β γ gamma  A Β β delta  A Β β delta  A Β γ gamma  A Β β delta  A Β β delta  A Β γ gamma  A Β γ gamma  A Β γ gamma  A Β β delta  A Β γ gamma  A Β γ gamma  A Β γ gamma  A Β ε delta  A Β ε	Γ	Γ	<b>Γ</b> ;	Gamma
Z         Ζ         & #919;         Eta           H         & Eta;         & #919;         Eta           O         & Theta;         & #920;         Theta           I         & fota;         & #920;         Theta           I         & fota;         & #921;         lota           K         & Kappa;         & #922;         Kappa           Λ         & Lambda;         & #923;         Lambda           M         Mu;         & #923;         Lambda           M         & Mu;         & #925;         Nu           N         & Nu;         & #926;         Xi           O         & Omicron;         & #928;         Xi           O         & Omicron;         & #927;         Omicron           I         & Pi;         & #929;         Rho           B         & RP0;         & #929;         Rho           E         & Signa;         & #931;         Signa           T         & Fau;         & #933;         Upsilon           Y         & Upsilon;         & #933;         Upsilon           Phi         X         & Chi         Phi           X         & Chi	Δ	Δ	<b>Δ</b> ;	Delta
H	E	Ε	Ε	Epsilon
Θ         Θ         Θ         Theta           I         Ι         Ι         Iota           K         Κ         Λ         Lambda           M         Μ         Λ         Lambda           M         Μ         Ξ         Nu           N         Ν         Ξ         XI           O         Ο         Ξ         XI           O         Ο         Ο         Omicron           II         Π         Π         PI           P         Ρ         Ρ         Rho           E         Σ         Σ         Sigma           T         Τ         Τ         Tau           Y         Υ         Υ         Upsilon           D         Φ         Υ         Upsilon           D         Φ         Φ         Phi           X         Χ         Υ         Upsilon           D         Ψ         Ψ         Psi           Q         Φ         Ω         Omega           A         &Ioha         α         alpha<	Z	Ζ	Ζ	Zeta
I	Н	Η	Η	Eta
K         Κ         Κ         Kappa           Λ         Λ         Λ         Lambda           M         Μ         Μ         Mu           N         Ν         Ν         Nu           E         Ξ         Ξ         Xi           O         Ο         Ξ         Xi           O         Ο         Π         Pl           P         Ρ         Π         Pl           P         Ρ         Ρ         Rho           E         Σ         Σ         Sigma           T         Τ         Τ         Tau           Y         Υ         Υ         Upsilon           Q         Φ         Υ         Chi           X         Χ         Χ         Chi           X         Χ         Χ         Chi           X         Χ         Ψ         Psi           Q         Ω         Ω         Omega           Q         Ω         α         elpha           B         &bota         β         beta <th>Θ</th> <th>Θ</th> <th><b>Θ</b>;</th> <th>Theta</th>	Θ	Θ	<b>Θ</b> ;	Theta
Λ       Λ       Λ       Lambda         M       Μ       Μ       Mu         N       Ν       Ν       Nu         E       Ξ       Ξ       Xi         O       &Cmicron       Ο       Omicron         II       Π       Π       PI         P       Ρ       Ρ       Rho         E       Σ       Σ       Sigma         T       Τ       Τ       Tau         Y       Υ       Υ       Upsilon         Q       Φ       Φ       Phi         X       &Ch       Χ       Chi         Q       Φ       Ψ       Psi         Q       Ω       Ω       Omega         Q       Ω       Ω       Omega         Q       Ω       α       alpha         B       β       β       beta         Y       γ       γ       gamma         A       δ       ε       epsilon         Z       ζ       ε       epsilon         Z	I	&lota	<b>Ι</b> ;	lota
M       Μ       Μ       Mu         N       Ν       Ν       Nu         E       Ξ       Ξ       Xi         O       Ο       Ο       Omicron         II       Π       Π       Pi         P       Ρ       Ρ       Rho         E       Σ       Σ       Sigma         T       Τ       Τ       Tau         Y       Υ       Υ       Upsilon         Q       Φ       Φ       Phi         X       Χ       Χ       Chi         X       Χ       Ψ       Psi         Q       Φ       Ω       Omega         Q       Ω       Ω       Omega         Q       Ω       α       alpha         B       β       β       beta         Y       γ       γ       gamma         A       δ       ε       epsilon         Z       ζ       ε       epsilon         Z       ζ       ζ       zeta         I	K	&Карра;	<b>Κ</b> ;	Карра
N       Ν       Ξ       Nu         Ξ       Ξ       Ξ       Xi         O       Ο       Ο       Omicron         Π       Π       Π       Pi         P       Ρ       Ρ       Rho         Σ       Σ       Σ       Sigma         T       Τ       Σ       Sigma         T       Τ       Τ       Tau         Y       &Upsiton       Υ       Upsiton         Φ       Φ       Φ       Phi         X       Χ       Ψ       Psi         W       Ψ       Ψ       Psi         Q       Ω       Ω       Omega         Q       Ω       Ω       Omega         Q       Ω       α       alpha         B       β       β       beta         Y       γ       γ       gamma         D       δ       δ       delta         E       ε       ε       epsilon         Z       ζ       ζ       zeta         Q	٨	Λ	<b>Λ</b> ;	Lambda
E Ξ Ξ XI  O Ο Ο Omicron  Π Π Π Pi  P Ρ Ρ Rho  Σ Σ Σ Sigma  Τ Τ Τ Tau  Y Υ Υ Upsilon  Φ Φ Ψ Phi  X Χ Ψ Psi  Ω Ω Ω Omega  α α α alpha  β β β beta  Y γ γ gamma  δ δ δ delta  ε ε δ delta  ε ε δ delta  ε ε ζ zeta  η η: η eta  θ θ θ theta  I ι ι lambda  μ μ μ mu  V μ ν nu	M	Μ	<b>%#924</b> ;	Mu
O         & Omicron;         & #927;         Omicron           Π         & Pi;         & #928;         Pi           P         & Rho;         & #929;         Rho           Σ         & Sigma;         & #931;         Sigma           T         & Tau;         & #932;         Tau           Y         & Upsilon;         & #933;         Upsilon           Φ         & Phi;         & #934;         Phi           X         & Chi;         & #935;         Chi           Ψ         & Psi;         & #936;         Psi           Ω         & Omega;         & #937;         Omega           α         & alpha;         & #945;         alpha           β         & beta;         & #946;         beta           γ         & gamma;         & #947;         gamma           δ         & delta;         & #949;         epsilon           ξ         & zeta;         & #949;         epsilon           ζ         & zeta;         & #950;         zeta           η         & eta;         & #951;         eta           θ         & theta;         & #952;         theta           ι         & tota; <th>N</th> <th>Ν</th> <th><b>Ν</b>;</th> <th>Nu</th>	N	Ν	<b>Ν</b> ;	Nu
Π       Π       Π       Pi         P       Ρ       Ρ       Rho         Σ       Σ       Σ       Sigma         T       Τ       Τ       Tau         Y       Υ       Υ       Upsilon         Φ       Φ       Φ       Phi         X       Χ       Χ       Chi         Ψ       Ψ       Ψ       Psi         Ω       Ω       Ω       Omega         α       α       α       alpha         β       β       β       beta         γ       γ       γ       gamma         δ       δ       δ       delta         ε       ε       ε       epsilon         ζ       ζ       ε       epsilon         ζ       ζ       ζ       zeta         η       η       η       eta         θ       θ       θ       theta         ι       ι       ι       iota         κ       κ       κ       kappa         λ	Ξ	Ξ	<b>Ξ</b> ;	Xi
P       Ρ       Ρ       Rho         Σ       Σ       Σ       Sigma         T       Τ       Τ       Tau         Y       Υ       Υ       Upsilon         Φ       Φ       Φ       Phi         X       Χ       Χ       Chi         W       Ψ       Ψ       Psi         Ω       Ω       Ω       Omega         α       α       α       alpha         β       β       β       beta         γ       γ       γ       gamma         δ       δ       δ       delta         ε       ε       ε       epsilon         ζ       ζ       ζ       zeta         η       η       η       eta         θ       θ       θ       theta         ι       &lota       ι       iota         κ       κ       κ       kappa         λ       λ       μ       mu         ν       ν       μ       mu         ν <th>0</th> <th>Ο</th> <th><b>Ο</b>;</th> <th>Omicron</th>	0	Ο	<b>Ο</b> ;	Omicron
Σ       Σ       Σ       Sigma         T       Τ       Τ       Tau         Y       Υ       Υ       Upsilon         Φ       Φ       Φ       Phi         X       Χ       Χ       Chi         W       Ψ       Ψ       Psi         Ω       Ω       Ω       Omega         α       α       α       alpha         β       β       β       beta         γ       γ       γ       gamma         δ       δ       δ       delta         ε       ε       ε       epsilon         ζ       ζ       ζ       zeta         η       η       η       eta         θ       θ       θ       theta         ι       ι       ι       iota         κ       κ       κ       kappa         λ       λ       μ       mu         ν       ν       μ       mu         ν       ν       ξ       xi	П	Π	<b>Π</b> ;	Pi
T Τ Τ Tau  Y Υ Υ Upsilon  Φ Φ Φ Phi  X Χ Χ Chi  Ψ Ψ Ψ Psi  Ω Ω α alpha  β β β beta  Y γ γ gamma  δ δ δ delta  ε ε ε epsilon  ζ ζ ζ zeta  η η ζ zeta  θ θ θ theta  I ι ι iota  K κ λ lambda  μ μ μ mu  V ν ν nu  ξ ξ ξ xi	Р	Ρ	<b>%</b> #929;	Rho
Y       Υ       Υ       Upsilon         Φ       Φ       Φ       Phi         X       Χ       Χ       Chi         Ψ       Ψ       Ψ       Psi         Ω       Ω       Ω       Omega         α       α       α       alpha         β       β       β       beta         γ       γ       γ       gamma         δ       δ       δ       delta         ε       ε       ε       epsilon         ζ       ζ       ζ       zeta         η       η       η       eta         θ       θ       θ       theta         I       ι       ι       iota         κ       κ       κ       kappa         λ       λ       λ       lambda         μ       μ       μ       mu         γ       ν       ν       nu         ξ       ξ       ξ       xi	Σ	Σ	<b>Σ</b> ;	Sigma
Φ       Φ       Φ       Phi         X       Χ       Χ       Chi         Ψ       Ψ       Ψ       Psi         Ω       Ω       Ω       Omega         α       α       α       alpha         β       β       β       beta         γ       γ       γ       gamma         δ       δ       δ       delta         ε       ε       ε       epsilon         ζ       ζ       ζ       zeta         η       η       η       eta         θ       θ       θ       theta         I       ι       ι       iota         κ       κ       κ       kappa         λ       λ       λ       lambda         Ψ       μ       μ       mu         ν       ν       ν       nu         ξ       ξ       ξ       xi	Т	Τ	<b>Τ</b> ;	Tau
X & Chi; & Χ Chi  Ψ & Psi; & #936; Psi  Ω & Omega; & #937; Omega  α & &lpha & #945; alpha  β & beta; & #946; beta  Y & γ & #947; gamma  δ & δ & #948; delta  ε & epsilon; & #949; epsilon  ζ & zeta; & #950; zeta  η & η & #951; eta  θ & θ & #952; theta  I & iota; & #953; iota  K & κ & #954; kappa  λ & λ & #955; lambda  μ & mu; & #956; mu  V & nu; & #957; nu  ξ & xxi; & #958; xi	Υ	Υ	<b>Υ</b> ;	Upsilon
Ψ       Ψ       Ψ       Psi         Ω       Ω       Ω       Omega         α       α       α       alpha         β       β       beta         γ       γ       γ       gamma         δ       δ       δ       delta         ε       ε       ε       epsilon         ζ       ζ       ζ       zeta         η       η       η       eta         θ       θ       θ       theta         I       ι       ι       iota         κ       κ       κ       kappa         λ       λ       λ       lambda         μ       μ       μ       mu         ν       ν       ν       nu         ξ       ξ       ξ       xi	Φ	Φ	<b>Φ</b> ;	Phi
Ω       Ω       Ω       Omega         α       α       α       alpha         β       β       β       beta         γ       γ       γ       gamma         δ       δ       δ       delta         ε       ε       ε       epsilon         ζ       ζ       ζ       zeta         η       η       η       eta         θ       θ       θ       theta         ι       ι       ι       iota         κ       κ       κ       kappa         λ       λ       λ       lambda         μ       μ       μ       mu         ν       ν       ν       nu         ξ       ξ       ξ       xi	Х	Χ	<b>Χ</b> ;	Chi
α       α       α       alpha         β       β       β       beta         γ       γ       γ       gamma         δ       δ       δ       delta         ε       ε       epsilon         ζ       ζ       ζ       zeta         η       η       η       eta         θ       θ       θ       theta         ι       ι       ι       iota         κ       κ       κ       kappa         λ       λ       λ       lambda         μ       μ       μ       mu         ν       ν       ν       nu         ξ       ξ       ξ       xi	Ψ	Ψ	<b>Ψ</b> ;	Psi
β       β       β       beta         γ       γ       γ       gamma         δ       δ       δ       delta         ε       ε       ε       epsilon         ζ       ζ       ζ       zeta         η       η       η       eta         θ       θ       θ       theta         ι       ι       ι       iota         κ       κ       κ       kappa         λ       λ       λ       lambda         μ       μ       μ       mu         ν       ν       ν       nu         ξ       ξ       ξ       xi	Ω	Ω	<b>&amp;</b> #937;	Omega
γ       γ       γ       gamma         δ       δ       δ       delta         ε       ε       epsilon         ζ       ζ       ζ       zeta         η       η       η       eta         θ       θ       θ       theta         ι       ι       ι       iota         κ       κ       κ       kappa         λ       λ       λ       lambda         μ       μ       μ       mu         ν       ν       ν       nu         ξ       ξ       ξ       xi	α	α	<b>α</b> ;	alpha
δ       δ       δ       delta         ε       ε       ε       epsilon         ζ       ζ       ζ       zeta         η       η       η       eta         θ       θ       θ       theta         I       ι       ι       iota         κ       κ       κ       kappa         λ       λ       λ       lambda         μ       μ       μ       mu         ν       ν       ν       nu         ξ       ξ       ξ       xi	β	β	<b>%#946</b> ;	beta
ε       ε       ε       epsilon         ζ       ζ       ζ       zeta         η       η       η       eta         θ       θ       θ       theta         ι       ι       ι       iota         κ       κ       κ       kappa         λ       λ       λ       lambda         μ       μ       μ       mu         ν       ν       ν       nu         ξ       ξ       ξ       xi	γ	γ	<b>%</b> #947;	gamma
ζ       ζ       ζ       zeta         η       η       η       eta         θ       θ       θ       theta         ι       ι       ι       iota         κ       κ       κ       kappa         λ       λ       λ       lambda         μ       μ       μ       mu         ν       ν       ν       nu         ξ       ξ       ξ       xi	δ	δ	<b>%</b> #948;	delta
η       η       η       eta         θ       θ       θ       theta         I       ι       ι       iota         κ       κ       κ       kappa         λ       λ       λ       lambda         μ       μ       μ       mu         ν       ν       ν       nu         ξ       ξ       ξ       xi	3	ε	<b>%#949</b> ;	epsilon
θ       θ       θ       theta         I       ι       ι       iota         K       κ       κ       kappa         λ       λ       λ       lambda         μ       μ       μ       mu         V       ν       ν       nu         ξ       ξ       ξ       xi	ζ	ζ	<b>%#950</b> ;	zeta
I       ι       ι       iota         K       κ       κ       kappa         λ       λ       #955;       lambda         μ       μ       μ       mu         V       ν       ν       nu         ξ       ξ       ξ       xi	η	η	η	eta
κ       κ       κ       kappa         λ       λ       λ       lambda         μ       μ       μ       mu         ν       ν       ν       nu         ξ       ξ       ξ       xi	θ	θ	<b>%</b> #952;	theta
λ       λ       λ       lambda         μ       μ       μ       mu         ν       ν       ν       nu         ξ       ξ       ξ       xi	I	ι	<b>ι</b> ;	iota
μ       μ       μ       mu         ν       ν       ν       nu         ξ       ξ       ξ       xi	К	κ	<b>%</b> #954;	kappa
V ν ν nu ξ ξ ξ xi	λ	λ	<b>λ</b> ;	lambda
<b>ξ</b> ξ ξ xi	μ	μ	<b>μ</b> ;	mu
	V	ν	<b>ν</b> ;	nu
8 & & & & & & & & & & & & & & & & & & &	ξ	ξ	<b>ξ</b> ;	xi
distribution, and the state of	0	ο	<b>ο</b> ;	omicron
<b>π</b> &ρi; π pi	π	π	<b>π</b> ;	pi
<b>ρ</b> ρ ρ rho	ρ	ρ	ρ	rho
ς ς ς sigmaf	ς	ς	<b>&amp;</b> #962;	sigmaf
<b>σ</b> σ	σ	σ	<b>σ</b> ;	sigma

Contact

Т	τ	τ	tau
U	υ	<b>υ</b> ;	upsilon
φ	φ	<b>φ</b> ;	phi
Χ	χ	<b>χ</b> ;	chi
Ψ	ψ	<b>ψ</b> ;	psi
ω	ω	<b>&amp;</b> #969;	omega
ϑ	ϑ	<b>&amp;</b> #977;	Theta symbol
Υ	ϒ	<b>ϒ</b> ;	Upsilon symbol
ω	ϖ	<b>ϖ</b> ;	Pi symbol

# **Miscellaneous HTML entities**

List of miscellaneous HTML entities.

ymbol	Entity Name	Entity Number	Description
Œ	Œ	<b>Œ</b> ;	Uppercase ligature OE
œ	œ	<b>œ</b> ;	Lowercase ligature OE
Š	Š	<b>&amp;#</b> 352;	Uppercase S with caron
š	š	<b>&amp;#&lt;/b&gt;353;&lt;/td&gt;&lt;td&gt;Lowercase S with caron&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;Ÿ&lt;/td&gt;&lt;td&gt;Ÿ&lt;/td&gt;&lt;td&gt;&lt;b&gt;&amp;#&lt;/b&gt;376;&lt;/td&gt;&lt;td&gt;Capital Y with diaeres&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;f&lt;/td&gt;&lt;td&gt;ƒ&lt;/td&gt;&lt;td&gt;&amp;#&lt;b&gt;4&lt;/b&gt;02;&lt;/td&gt;&lt;td&gt;Lowercase with hook&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;^&lt;/td&gt;&lt;td&gt;ˆ&lt;/td&gt;&lt;td&gt;ˆ&lt;/td&gt;&lt;td&gt;Circumflex accent&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;~&lt;/td&gt;&lt;td&gt;˜&lt;/td&gt;&lt;td&gt;˜&lt;/td&gt;&lt;td&gt;Tilde&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt; &lt;/td&gt;&lt;td&gt; &lt;/td&gt;&lt;td&gt;En space&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt; &lt;/td&gt;&lt;td&gt; &lt;/td&gt;&lt;td&gt;Em space&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt; &lt;/td&gt;&lt;td&gt; &lt;/td&gt;&lt;td&gt;Thin space&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;‌&lt;/td&gt;&lt;td&gt;&lt;b&gt;&amp;#8204&lt;/b&gt;;&lt;/td&gt;&lt;td&gt;Zero width non-joiner&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;‍&lt;/td&gt;&lt;td&gt;‍&lt;/td&gt;&lt;td&gt;Zero width joiner&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;‎&lt;/td&gt;&lt;td&gt;‎&lt;/td&gt;&lt;td&gt;Left-to-right mark&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;‏&lt;/td&gt;&lt;td&gt;‏&lt;/td&gt;&lt;td&gt;Right-to-left mark&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;_&lt;/td&gt;&lt;td&gt;–&lt;/td&gt;&lt;td&gt;–&lt;/td&gt;&lt;td&gt;En dash&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;_&lt;/td&gt;&lt;td&gt;—&lt;/td&gt;&lt;td&gt;—&lt;/td&gt;&lt;td&gt;Em dash&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;í&lt;/td&gt;&lt;td&gt;'&lt;/td&gt;&lt;td&gt;&lt;b&gt;&amp;#8216&lt;/b&gt;;&lt;/td&gt;&lt;td&gt;Left single quotation mark&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;,&lt;/td&gt;&lt;td&gt;'&lt;/td&gt;&lt;td&gt;'&lt;/td&gt;&lt;td&gt;Right single quotation mark&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;,&lt;/td&gt;&lt;td&gt;'&lt;/td&gt;&lt;td&gt;'&lt;/td&gt;&lt;td&gt;Single low-9 quotation mark&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;44&lt;/td&gt;&lt;td&gt;"&lt;/td&gt;&lt;td&gt;"&lt;/td&gt;&lt;td&gt;Left double quotation mark&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;"&lt;/td&gt;&lt;td&gt;"&lt;/td&gt;&lt;td&gt;"&lt;/td&gt;&lt;td&gt;Right double quotation mark&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;"&lt;/td&gt;&lt;td&gt;"&lt;/td&gt;&lt;td&gt;&lt;b&gt;&amp;#8222&lt;/b&gt;;&lt;/td&gt;&lt;td&gt;Double low-9 quotation mark&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;t&lt;/td&gt;&lt;td&gt;†&lt;/td&gt;&lt;td&gt;&lt;b&gt;&amp;#8224&lt;/b&gt;;&lt;/td&gt;&lt;td&gt;Dagger&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;‡&lt;/td&gt;&lt;td&gt;‡&lt;/td&gt;&lt;td&gt;&lt;b&gt;&amp;#8225&lt;/b&gt;;&lt;/td&gt;&lt;td&gt;Double dagger&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;•&lt;/td&gt;&lt;td&gt;•&lt;/td&gt;&lt;td&gt;&lt;b&gt;&amp;#8226&lt;/b&gt;;&lt;/td&gt;&lt;td&gt;Bullet&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;…&lt;/td&gt;&lt;td&gt;&lt;b&gt;&amp;#8230&lt;/b&gt;;&lt;/td&gt;&lt;td&gt;Horizontal ellipsis&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;‰&lt;/td&gt;&lt;td&gt;‰&lt;/td&gt;&lt;td&gt;&lt;b&gt;&amp;#8240&lt;/b&gt;;&lt;/td&gt;&lt;td&gt;Per mille&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;•&lt;/td&gt;&lt;td&gt;′&lt;/td&gt;&lt;td&gt;′&lt;/td&gt;&lt;td&gt;Minutes (Degrees)&lt;/td&gt;&lt;/tr&gt;&lt;/tbody&gt;&lt;/table&gt;</b>	

#### Contact

""       &#Frime;       ″       Seconds (Degrees)         C       &Isaquo       ‹       Single left angle quotation         D       ›       ›       Single right angle quotation         C       €       ‾       Overline         E       €       €       Euro         TM       ™       ™       Trademark         ←       ←       ←       Left arrow         ↑       ↑       ↑       Up arrow         ↑       ↑       →       Right arrow         ↓       ↓       ↓       Down arrow         ←       ↔       ↔       Left right arrow         ↓       ↵       ↔       Left right arrow         ↓       ↵       ↵       Carriage return arrow         ↓       &left       ⌈       Left celling         ↓       &receil       ⌉       Right celling         ↓       ⌋       ⌋       Right floor				
Name       Name	••	″	<b>″</b> ;	Seconds (Degrees)
-       ‾       ‾       Overline         €       €       €       Euro         TM       ™       ™       Trademark         ←       ←       ←       Left arrow         ↑       ↑       ↑       Up arrow         →       →       →       Right arrow         ↓       ↓       ↓       Down arrow         ↓       ↵       ↔       Left right arrow         ↓       ↵       ↵       Carriage return arrow         ∫       ⌈       ⌈       Left ceiling         ∤       &croeil       ⌉       Right ceiling         ↓       ⌊       ⌊       Left floor	•	‹	<b>‹</b> ;	Single left angle quotation
€       €       €       Euro         TM       ™       ™       Trademark         ←       ←       ←       Left arrow         ↑       ↑       ↑       Up arrow         →       →       →       Right arrow         ↓       ↓       ↓       Down arrow         ↓       ↔       ↔       Left right arrow         ↓       ↵       ↵       Carriage return arrow         ↓       &left eiling         ↓       ⌉       ⌉       Right ceiling         ↓       ⌊       ⌊       Left floor	>	›	<b>›</b> ;	Single right angle quotation
TM       ™       ™       Trademark         ←       ←       ←       Left arrow         ↑       ↑       ↑       Up arrow         →       →       →       Right arrow         ↓       ↓       ↓       Down arrow         ←       ↔       ↔       Left right arrow         ↓       ↵       ↵       Carriage return arrow         [       ⌈       ⌈       Left ceiling         ↑       ⌉       ⌉       Right ceiling         ↓       ⌊       ⌊       Left floor	-	‾	<b>‾</b> ;	Overline
←       ←       ←       Left arrow         ↑       ↑       ↑       Up arrow         →       →       →       Right arrow         ↓       ↓       ↓       Down arrow         ←       ↔       ↔       Left right arrow         ←       ↵       ↵       Carriage return arrow         [       ⌈       ⌈       Left ceiling         ]       ⌉       ⌉       Right ceiling         [       ⌊       ⌊       Left floor	€	€	<b>€</b> ;	Euro
↑       ↑       ↑       Up arrow         →       →       →       Right arrow         ↓       ↓       ↓       Down arrow         ↓       ↔       ↔       Left right arrow         ↓       ↵       ↵       Carriage return arrow         [       ⌈       ⌈       Left ceiling         ]       ⌉       ⌉       Right ceiling         [       ⌊       ⌊       Left floor	TM	™	™	Trademark
→       →       →       Right arrow         ↓       ↓       ↓       Down arrow         ↔       ↔       ↔       Left right arrow         ↓       ↵       ↵       Carriage return arrow         [       ⌈       ⌈       Left ceiling         ↑       ⌉       ⌉       Right ceiling         ↓       ⌊       ⌊       Left floor	←	←	←	Left arrow
↓       ↓       ↓       Down arrow         ←       ↔       ↔       Left right arrow         ←       ↵       ↵       Carriage return arrow         [       ⌈       ⌈       Left ceiling         ]       ⌉       ⌉       Right ceiling         [       ⌊       ⌊       Left floor	1	↑	<b>&amp;</b> #8593;	Up arrow
↔       ↔       ↔       Left right arrow         ↓       ↵       ↵       Carriage return arrow         [       ⌈       ⌈       Left ceiling         ]       ⌉       ⌉       Right ceiling         [       ⌊       ⌊       Left floor	$\rightarrow$	→	<b>&amp;</b> #8594;	Right arrow
& ↵       ↵       Carriage return arrow         [       &Iceil       ⌈       Left ceiling         ]       ⌉       ⌉       Right ceiling         [       &Ifloor       ⌊       Left floor	<b>↓</b>	↓	<b>&amp;</b> #8595;	Down arrow
[ ⌈ ⌈ Left ceiling ] ⌉ ⌉ Right ceiling [ ⌊ ⌊ Left floor	$\leftrightarrow$	↔	<b>&amp;</b> #8596;	Left right arrow
⌉	↵	↵	<b>↵</b> ;	Carriage return arrow
Left floor	[	⌈	⌈	Left ceiling
	1	⌉	<b>&amp;</b> #8969;	Right ceiling
] ⌋ ⌋ Right floor	L	⌊	<b>&amp;</b> #8970;	Left floor
	]	⌋	<b>&amp;</b> #8971;	Right floor
	<b>◊</b>	◊	◊	Lozenge
<b>♦</b> ♠ ♠ Spade	<b>*</b>	♠	♠	Spade
♣ ♣ Club	*	♣	♣	Club
♥         ♥         ♥         Heart	٧	♥	♥	Heart
♦ ♦ ♦ Diamond	*	♦	<b>♦</b> ;	Diamond

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