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HTML Character Entities

‹   ›

The following sections present the complete lists of character entity references.

Essential Entities

The following table lists the the essential entities in HTML.

Character	Entity Name	Entity Number	Description
&	&	&	Ampersand
"	"	"	Double quote mark
<	<	<	Less than symbol
>	>	>	Greater than symbol
'	'	'	Apostrophe (*XHTML only*)

Currency Symbols

The following table lists the entities for currency symbols.

Character	Entity Name	Entity Number	Description
¢	¢	¢	Cent
£	£	£	Pound
¤	¤	¤	General currency
¥	¥	¥	Yen
€	€	€	Euro

Copyright, Trademark, and Registered Symbol

The following table lists the entities for copyright, trademark, and registered symbol.

Character	Entity Name	Entity Number	Description
©	©	©	Copyright
®	®	®	Registered
™	™	™	Trademark

General Punctuation

The following table lists the entities for general punctuation.

Character	Entity Name	Entity Number	Description
			En space
			Em space
			Thin space
			Nonbreaking space
–	–	–	En dash
—	—	—	Em dash
'	‘	‘	Left/Opening single-quote
'	’	’	Right/Closing single-quote and apostrophe
‚	‚	‚	Single low-9 quotation mark
"	“	“	Left/Opening double-quote
"	”	”	Right/Closing double-quote
„	„	„	Double low-9 quotation mark
‹	‹	‹	Left-pointing single angle quotation mark
›	›	›	Left-pointing single angle quotation mark
«	«	«	Left-pointing double angle quotation mark
»	»	»	Right-pointing double angle quotation mark
†	†	†	Dagger
‡	‡	†	Double dagger
•	•	•	Bullet
...	&hellep;	…	Ellipses
‰	‰	‰	Per mille symbol (per thousand)
′	′	′	Prime, minutes, feet
″	″	″	Double prime, seconds, inches
‾	‾	‾	Overline
/	⁄	⁄	Fraction slash

Arrows

The following table lists the entities for arrows.

Character	Entity Name	Entity Number	Description
←	←	←	Left arrow
↑	↑	↑	Up arrow
→	→	→	Right arrow
↓	↓	↓	Down arrow
↔	↔	↔	Left-right arrow
↵	↵	↵	Down arrow with corner leftward
⇐	⇐	⇐	Leftward double arrow
⇑	⇑	⇑	Upward double arrow
⇒	⇒	⇒	Rightward double arrow
⇓	⇓	⇓	Downward double arrow
⇔	⇔	⇔	Left-right double arrow

Mathematical Symbols

The following table lists the entities for mathematical symbols.

Character	Entity Name	Entity Number	Description
∀	∀	∀	for all
∂	∂	∂	Partial differential
∃	∃	∃	There exists
∅	∅	∅	Empty set, null set, diameter
∇	∇	∇	Nabla, backward difference
∈	∈	∈	Element of
∉	∉	∉	Not an element of
∋	∋	∋	Contains as a member
∏	∏	∏	N-ary product, product sign
∑	∑	∑	N-ary summation
−	−	−	Minus sign
∗	∗	∗	Asterisk operator
√	√	√	Square root, radical sign
∝	∝	∝	Proportional to
∞	∞	∞	Infinity
∠	∠	∠	Angle
∧	∧	∧	Logical and, wedge
∨	∨	∨	Logical or, vee
∩	∩	∩	Intersection, cap
∪	∪	∪	Union, cup
∫	∫	∫	Integral
∴	∴	∴	Therefore
~	∼	∼	Tilde operator, varies with, similar to
≅	≅	≅	Approximately equal to
≈	≈	≈	Almost equal to, asymptotic to
≠	≠	≠	Not equal to
≡	≡	≡	Equivalent to
≤	≤	≤	Less than or equal to
≥	≥	≥	Greater than or equal to
⊂	⊂	⊂	Subset of
⊃	⊃	⊃	Superset of
⊄	⊄	⊄	Not a subset of
⊆	⊆	⊆	Subset of or equal to
⊇	⊇	⊇	Superset of or equal to
⊕	⊕	⊕	Circled plus, direct sum
⊗	⊗	⊗	Circled times, vector product
⊥	⊥	⊥	Up tack, orthogonal to, perpendicular
·	⋅	⋅	Dot operator

Greek Letters

The following table lists the entities for greek letters.

Character	Entity Name	Entity Number	Description
Α	Α	Α	Greek capital alpha
Β	Β	Β	Greek capital beta
Γ	Γ	Γ	Greek capital gamma

Δ	Δ	Δ	Greek capital delta
Ε	Ε	Ε	Greek capital epsilon
Ζ	Ζ	Ζ	Greek capital zeta
Η	Η	Η	Greek capital eta
Θ	Θ	Θ	Greek capital theta
Ι	Ι	Ι	Greek capital iota
Κ	Κ	Κ	Greek capital kappa
Λ	Λ	Λ	Greek capital lambda
Μ	Μ	Μ	Greek capital mu
Ν	Ν	Ν	Greek capital nu
Ξ	Ξ	Ξ	Greek capital xi
Ο	Ο	Ο	Greek capital omicron
Π	Π	Π	Greek capital pi
Ρ	Ρ	Ρ	Greek capital rho
Σ	Σ	Σ	Greek capital sigma
Τ	Τ	Τ	Greek capital tau
Υ	Υ	Υ	Greek capital upsilon
Φ	Φ	Φ	Greek capital phi
Χ	Χ	Χ	Greek capital chi
Ψ	Ψ	Ψ	Greek capital psi
Ω	Ω	Ω	Greek capital omega
α	α	α	Greek small alpha
β	β	β	Greek small beta
γ	γ	γ	Greek small gamma
δ	δ	δ	Greek small delta
ε	ε	ε	Greek small epsilon
ζ	ζ	ζ	Greek small zeta
η	η	η	Greek small eta
θ	θ	θ	Greek small theta
ι	ι	ι	Greek small iota
κ	κ	κ	Greek small kappa
λ	λ	λ	Greek small lambda
μ	μ	μ	Greek small mu
ν	ν	ν	Greek small nu
ξ	ξ	ξ	Greek small xi
ο	ο	ο	Greek small omicron
π	π	π	Greek small pi
ρ	ρ	ρ	Greek small rho
ς	ς	ς	Greek small letter final sigma
σ	σ	σ	Greek small sigma
τ	τ	τ	Greek small tau
υ	υ	υ	Greek small upsilon
φ	φ	φ	Greek small phi
χ	χ	χ	Greek small chi
ψ	ψ	ψ	Greek small psi
ω	ω	ω	Greek small omega
ϑ	ϑ	ϑ	Greek small theta symbol
ϒ	ϒ	ϒ	Greek upsilon with hook
ϖ	ϖ	ϖ	Greek pi symbol

Miscellaneous

The following table lists the other useful entities supported by HTML.

Character	Entity Name	Entity Number	Description
⌈	⌈	⌈	Left ceiling
⌉	⌉	⌉	Right ceiling
⌊	⌊	⌊	Left floor
⌋	⌋	⌋	Right floor
⟨	⟨	⟨	Left-pointing angle bracket
⟩	⟩	⟩	Right-pointing angle bracket
◊	◊	◊	Lozenge
ℑ	ℑ	ℑ	Blackletter capital I, imaginary part
℘	℘	℘	Script capital P, power set
ℜ	ℜ	ℜ	Blackletter capital R, real part
ℵ	ℵ	ℵ	Alef symbol, or first transfinite cardinal
♠	♠	♠	Black spade suit
♣	♣	♣	Black club suit
♥	♥	♥	Black heart suit
♦	♦	♦	Black diamond suit

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