

HTML 4.0 Character Entity References

Basic Latin Unicode U+0000 – U+007F (0-127)

" or "	quotation mark, APL quote (" or ")
& or &	ampersand (& or &)
< or <	less than (< is left single angle quotation mark) (< or <)
> or >	greater than (> is right single angle quotation mark) (> or >)

Latin-1 Supplement Unicode U+0080 – U+00FF (128-255)

or	non-breaking space (or sp;)
¡ or ¡	inverted exclamation mark (¡ or ¡)
¢ or ¢	cent sign (¢ or ¢)
£ or £	pound sterling sign, Irish Punt (£ or £)
¤ or ¤	general currency sign (¤ or ¤)
¥ or ¥	yen sign (¥ or ¥)
or	broken (vertical) bar (¦ or ¦)
§ or §	section sign (§ or §)
¨ or ¨	umlaut (dieresis) (¨ or ¨)
© or ©	copyright sign (© or ©)
^a or ^a	ordinal indicator, feminine (ª or ª)
« or «	angle quotation mark (left) (« or «)
¬ or ¬	not sign (¬ or ¬)
or	soft hyphen (­ or ­)
® or ®	registered sign (® or ®)
¯ or ¯	macron, APL overbar (¯ or ¯)
° or °	degree sign (° or °)
± or ±	plus or minus sign (± or ±)
² or ²	superscript two (² or ²)
³ or ³	superscript three (³ or ³)
´ or ´	acute accent (´ or ´)
µ or µ	micro sign (µ or µ)
¶ or ¶	pilcrow (paragraph sign) (¶ or ¶)
· or ·	middle dot (· is dot operator) (· or ·)
, or ,	cedilla (¸ or ¸)
¹ or ¹	superscript one (¹ or ¹)
º or º	ordinal indicator, masculine (º or º)
» or »	angle quotation mark (right) (» or »)
¼ or ¼	fraction one-quarter (¼ or ¼)

½ or ½	fraction one-half (½ or ½)
¾ or ¾	fraction three-quarters (¾ or ¾)
¿ or ¿	inverted question mark (¿ or ¿)
À or À	capital A, grave (À or À)
Á or Á	capital A, acute (Á or Á)
Â or Â	capital A, circumflex (Â or Â)
Ã or Ã	capital A, tilde (Ã or Ã)
Ä or Ä	capital A, umlaut (Ä or Ä)
Å or Å	capital A, ring (Å or Å)
Æ or Æ	capital AE diphthong (ligature) (Æ or Æ)
Ç or Ç	capital C, cedilla (Ç or Ç)
È or È	capital E, grave (È or È)
É or É	capital E, acute (É or É)
Ê or Ê	capital E, circumflex (Ê or Ê)
Ë or Ë	capital E, umlaut (Ë or Ë)
Ì or Ì	capital I, grave (Ì or Ì)
Í or Í	capital I, acute (Í or Í)
Î or Î	capital I, circumflex (Î or Î)
Ï or Ï	capital I, umlaut (Ï or Ï)
Ð or Ð	capital Eth (Icelandic) (Ð or Ð)
Ñ or Ñ	capital N, tilde (Ñ or Ñ)
Ò or Ò	capital O, grave (Ò or Ò)
Ó or Ó	capital O, acute (Ó or Ó)
Ô or Ô	capital O, circumflex (Ô or Ô)
Õ or Õ	capital O, tilde (Õ or Õ)
Ö or Ö	capital O, umlaut (Ö or Ö)
× or ×	multiply sign, times (× or ×)
Ø or Ø	capital O, slash (Ø or Ø)
Ù or Ù	capital U, grave (Ù or Ù)
Ú or Ú	capital U, acute (Ú or Ú)
Û or Û	capital U, circumflex (Û or Û)
Ü or Ü	capital U, umlaut (Ü or Ü)
Ý or Ý	capital Y, acute (Ý or Ý)
Þ or Þ	capital Thorn (Icelandic) (Þ or Þ)
ß or ß	small sharp s (German) (sz ligature) (ß or ß)
à or à	small a, grave (à or à)

á or á	small a, acute (á or &acacute;)
â or â	small a, circumflex (â or â)
ã or ã	small a, tilde (ã or ã)
ä or ä	small a, umlaut (ä or ä)
å or å	small a, ring (å or å)
æ or æ	small ae diphthong (ligature) (æ or æ)
ç or ç	small c, cedilla (ç or ç)
è or è	small e, grave (è or è)
é or é	small e, acute (é or é)
ê or ê	small e, circumflex (ê or ê)
ë or ë	small e, umlaut (ë or &euuml;)
ì or ì	small i, grave (ì or ì)
í or í	small i, acute (í or í)
î or î	small i, circumflex (î or î)
ï or ï	small i, umlaut (ï or ï)
ð or ð	small eth (Icelandic) (ð or ð)
ñ or ñ	small n, tilde (ñ or ñ)
ò or ò	small o, grave (ò or ò)
ó or ó	small o, acute (ó or ó)
ô or ô	small o, circumflex (ô or ô)
õ or õ	small o, tilde (õ or õ)
ö or ö	small o, umlaut (ö or ö)
÷ or ÷	divide sign (÷ or ÷)
ø or ø	small o, slash (ø or ø)
ù or ù	small u, grave (ù or ù)
ú or ú	small u, acute (ú or ú)
û or û	small u, circumflex (û or û)
ü or ü	small u, umlaut (ü or ü)
ý or ý	small y, acute (ý or ý)
þ or þ	small thorn (Icelandic) (þ or þ)
ÿ or ÿ	small y, umlaut (ÿ or ÿ)

Latin Extended-A Unicode U+0100 – U+017F (256-383)

Œ or Œ	capital OE ligature (Œ or Œ)
œ or œ	small oe ligature (œ or œ)
Š or Š	capital S, caron (Š or Š)
š or š	small s, caron (š or š)

ÿ or ŷ	capital Y, umlaut (Ÿ or Ÿ)
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Latin Extended-B Unicode U+0180 – U+024F (384-591)

f or f	Florin, Guilder or Gulden (ƒ or ƒ)
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Spacing Modifier Letters Unicode U+02B0 – U+02FF (688-767)

^ or ^	circumflex accent (ˆ or ˆ)
~ or ~	small tilde (˜ or ˜)

Greek Unicode U+0370 – U+03FF (880-1023)

Α or Α	capital Alpha (Α or Α)
Β or Β	capital Beta (Β or Β)
Γ or Γ	capital Gamma (Γ or Γ)
Δ or Δ	capital Delta (Δ or Δ)
Ε or Ε	capital Epsilon (Ε or Ε)
Ζ or Ζ	capital Zeta (Ζ or Ζ)
Η or Η	capital Eta (Η or Η)
Θ or Θ	capital Theta (Θ or Θ)
Ι or Ι	capital Iota (Ι or Ι)
Κ or Κ	capital Kappa (Κ or Κ)
Λ or Λ	capital Lambda (Λ or Λ)
Μ or Μ	capital Mu (Μ or Μ)
Ν or Ν	capital Nu (Ν or Ν)
Ξ or Ξ	capital Xi (Ξ or Ξ)
Ο or Ο	capital Omicron (Ο or Ο)
Π or Π	capital Pi (Π or Π)
Ρ or Ρ	capital Rho (Ρ or Ρ)
Σ or Σ	capital Sigma (Σ or Σ)
Τ or Τ	capital Tau (Τ or Τ)
Υ or Υ	capital Upsilon (Υ or Υ)
Φ or Φ	capital Phi (Φ or Φ)
Χ or Χ	capital Chi (Χ or Χ)
Ψ or Ψ	capital Psi (Ψ or Ψ)
Ω or Ω	capital Omega (Ω or Ω)
α or α	lower case alpha (α or α)
β or β	lower case beta (β or β)
γ or γ	lower case gamma (γ or γ)
δ or δ	lower case delta (δ or δ)
ε or ε	lower case epsilon (ε or ε)

ζ or ζ	lower case zeta (ζ or ζ)
η or η	lower case eta (η or η)
θ or θ	lower case theta (θ or θ)
ι or ι	lower case iota (ι or ι)
κ or κ	lower case kappa (κ or κ)
λ or λ	lower case lambda (λ or λ)
μ or μ	lower case mu (μ or μ)
ν or ν	lower case nu (ν or ν)
ξ or ξ	lower case xi (ξ or ξ)
ο or ο	lower case omicron (ο or ο)
π or π	lower case pi (π or π)
ρ or ρ	lower case rho (ρ or ρ)
ς or ς	lower case sigma (terminal) (ς or ς)
σ or σ	lower case sigma (σ or σ)
τ or τ	lower case tau (τ or τ)
υ or υ	lower case upsilon (υ or υ)
φ or φ	lower case phi (φ or φ)
χ or χ	lower case chi (χ or χ)
ψ or ψ	lower case psi (ψ or ψ)
ω or ω	lower case omega (ω or ω)
ϑ or ϑ	theta symbol (ϑ or ϑ)
Υ or Υ	upsilon with hook symbol (ϒ or ϒ)
ϖ or ϖ	pi symbol (ϖ or ϖ)

General Punctuation Unicode U+2000 – U+206F (8192-8303)

or	en space (  or  )
or	em space (  or  )
or	thin space (  or  )
or	zero width non-joiner (‌ or ‌)
or	zero width joiner (‍ or ‍)
" or "	left-to-right mark (‎ or ‎)
" or "	right-to-left mark (‏ or ‏)
– or –	en dash (– or –)
— or —	em dash (— or —)
‘ or ‘	left single quotation mark, left single inverted comma (‘ or ‘)

' or '	right single quotation mark, right single inverted comma, apostrophe (’ or ’)
, or ,	single low-9 quotation mark (‚ or ‚)
“ or “	left double quotation mark, left double inverted commas (“ or “)
” or ”	right double quotation mark, right double inverted commas (” or ”)
„ or „	double low-9 quotation mark („ or „)
† or †	dagger († or †)
‡ or ‡	double dagger (‡ or ‡)
• or •	bullet, black small circle (• or •)
... or ...	horizontal ellipsis, three dot leader (… or …)
‰ or ‰	per mille sign (‰ or ‰)
' or '	prime, minutes, feet (′ or ′)
'' or ''	double prime, seconds, inches (″ or ″)
< or <	single angle quotation mark (left) (< is less than) (‹ or ‹)
> or >	single angle quotation mark (right) (> is greater than) (› or ›)
¯ or ¯	overline, spacing overscore (‾ or ‾)
/ or /	figure slash (fraction) (/ is normal slash) (⁄ or ⁄)

Currency Symbols Unicode U+20A0 – U+20CF (8352-8399)

€ or €	euro (€ or €)
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Letterlike Symbols Unicode U+2100 – U+214F (8448-8527)

ℑ or ℑ	blackletter I, imaginary part, I fraktur (ℑ or ℑ)
℘ or ℘	script capital P, Weierstrass, power set (℘ or ℘)
℞ or ℞	blackletter R, real part, R fraktur (ℜ or ℜ)
™ or ™	trade mark (™ or ™)
ℵ or ℵ	alef symbol, first transfinite cardinal (ℵ or ℵ)

Arrows Unicode U+2190 – U+21FF (8592-8703)

← or ←	arrow left (← or ←)
↑ or ↑	arrow up (↑ or ↑)
→ or →	arrow right (→ or →)
↓ or ↓	arrow down (↓ or ↓)
↔ or ↔	arrow left and right (↔ or ↔)
↵ or ↵	downwards arrow with corner leftwards, carriage return (↵ or ↵)
⇐ or ⇐	double arrow left (implied by) (⇐ or ⇐)
⇑ or ⇑	double arrow up (⇑ or ⇑)

\Rightarrow or \Rightarrow	double arrow right (implies) (⇒ or ⇒)
\Downarrow or \Downarrow	double arrow down (⇓ or ⇓)
\Leftrightarrow or \Leftrightarrow	double arrow left and right (⇔ or ⇔)

Mathematical Operators Unicode U+2200 – U+22FF (8704-8959)

\forall or \forall	for all (∀ or ∀)
∂ or ∂	partial differential (∂ or ∂)
\exists or \exists	there exists (∃ or ∃)
\emptyset or \emptyset	empty set, null set, diameter (∅ or ∅)
∇ or ∇	nabla, backward difference (∇ or ∇)
\in or \in	element of, set membership (∈ or ∈)
\notin or \notin	not an element of, denial of set membership (∉ or ∉)
\ni or \ni	contains as member (∋ or ∋)
\prod or \prod	n-ary product, product sign (∏ or ∏)
\sum or \sum	n-ary summation, sum of (∑ or ∑)
$-$ or $-$	minus sign (- is hyphen) (− or −)
$*$ or $*$	asterisk operator (∗ or ∗) The ∗ entity does not map to the low asterisk character ⁎.
$\sqrt{\quad}$ or $\sqrt{\quad}$	square root, radical sign (√ or √)
\propto or \propto	proportional to (∝ or ∝)
∞ or ∞	infinity (∞ or ∞)
\angle or \angle	angle (∠ or ∠)
\wedge or \wedge	logical and, wedge (∧ or ∧)
\vee or \vee	logical or, vee (∨ or ∨)
\cap or \cap	intersection, cap (∩ or ∩)
\cup or \cup	union, cup (∪ or ∪)
\int or \int	integral (∫ or ∫)
\therefore or \therefore	therefore (∴ or ∴)
\sim or \sim	tilde operator, varies with, similar to (∼ or ∼)
\cong or \cong	congruent, approximately equal to (≅ or ≅)
\approx or \approx	asymptotic to, almost equal to (≈ or ≈) The Adobe PostScript name for this character is approxequal
\neq or \neq	not equal to (≠ or ≠)
\equiv or \equiv	equivalence, identical to (≡ or ≡)
\leq or \leq	less than or equal to (≤ or ≤)
\geq or \geq	greater than or equal to (≥ or ≥)

\subset or \subsetneq	subset of, proper subset (⊂ or ⊂)
\supset or \supsetneq	superset of (⊃ or ⊃)
$\not\subset$ or $\not\subseteq$	not a subset of (⊄ or ⊅)
\subseteq or \subseteq	subset of or equal to (⊆ or ⊆)
\supseteq or \supseteq	superset of or equal to (⊇ or ⊇)
\oplus or \oplus	circled plus, direct sum (⊕ or ⊕)
\otimes or \otimes	circled times, vector product (⊗ or ⊗)
\perp or \perp	up tack, orthogonal to, perpendicular (⊥ or ⊥)
\cdot or \cdot	dot operator (\cdot is middle dot) (⋅ or ⋅)

Miscellaneous Technical Unicode U+2300 – U+23FF (8960-9215)

\lceil or \lceil	left ceiling, APL upstile (⌈ or ⌈)
\rceil or \rceil	right ceiling (⌉ or ⌉)
\lfloor or \lfloor	left floor, APL downstile (⌊ or ⌊)
\rfloor or \rfloor	right floor (⌋ or ⌋)
\langle or \langle	left-pointing angle bracket, bra (\langle is less than; \langle is left single angle quotation mark) (〈 or ⟨)
\rangle or \rangle	right-pointing angle bracket, ket (\rangle is greater than; \rangle is right single angle quotation mark) (〉 or ⟩)

Geometric Shapes Unicode U+25A0 – U+25FF (9632-9727)

\diamond or \diamond	lozenge (◊ or ◊)
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Miscellaneous Symbols Unicode U+2600 – U+26FF (9728-9983)

\spadesuit or \spadesuit	black spade suit (♠ or ♠)
\clubsuit or \clubsuit	black club suit, shamrock (♣ or ♣)
\heartsuit or \heartsuit	black heart suit, valentine (♥ or ♥)
\diamondsuit or \diamondsuit	black diamond suit (♦ or &diamonds;)