xhtml symbols

Symbol	Entitiy name	Character number	Description	Notes
Latin Extended-B				
ƒ	ƒ	ƒ	latin small f with hook – function	
Greek				
Α	Α	Α	greek capital letter alpha, U+0391	
Β	Β	Β	greek capital letter beta, U+0392	
Γ	Γ	Γ	greek capital letter gamma, U+0393 ISOgrk3	
Δ	Δ	Δ	greek capital letter delta, U+0394 ISOgrk3	
Ε	Ε	Ε	greek capital letter epsilon, U+0395	
Ζ	Ζ	Ζ	greek capital letter zeta, U+0396	
Η	Η	Η	greek capital letter eta, U+0397	
Θ	Θ	Θ	greek capital letter theta, U+0398 ISOgrk3	
Ι	Ι	Ι	greek capital letter iota, U+0399	
Κ	Κ	Κ	greek capital letter kappa, U+039A	
Λ	Λ	Λ	greek capital letter lambda, U+039B ISOgrk3	
Μ	Μ	Μ	greek capital letter mu, U+039C	
Ν	Ν	Ν	greek capital letter nu, U+039D	
Ξ	Ξ	Ξ	greek capital letter xi, U+039E ISOgrk3	
Ο	Ο	Ο	greek capital letter omicron, U+039F	
Π	Π	Π	greek capital letter pi, U+03A0 ISOgrk3	
Ρ	Ρ	Ρ	greek capital letter rho, U+03A1	
Σ	Σ	Σ	greek capital letter sigma, U+03A3 ISOgrk3	there is no Sigmaf, and no U+03A2 character either
Τ	Τ	Τ	greek capital letter tau, U+03A4	
Υ	Υ	Υ	greek capital letter upsilon, U+03A5 ISOgrk3	

Symbol	Entitiy name	Character number	Description	Notes
Φ	Φ	Φ	greek capital letter phi, U+03A6 ISOgrk3	
Χ	Χ	Χ	greek capital letter chi, U+03A7	
Ψ	Ψ	Ψ	greek capital letter psi, U+03A8 ISOgrk3	
Ω	Ω	Ω	greek capital letter omega, U+03A9 ISOgrk3	
α	α	α	greek small letter alpha, U+03B1 ISOgrk3	
β	β	β	greek small letter beta, U+03B2 ISOgrk3	
γ	γ	γ	greek small letter gamma, U+03B3 ISOgrk3	
δ	δ	δ	greek small letter delta, U+03B4 ISOgrk3	
ε	ε	ε	greek small letter epsilon, U+03B5 ISOgrk3	
ζ	ζ	ζ	greek small letter zeta, U+03B6 ISOgrk3	
η	η	η	greek small letter eta, U+03B7 ISOgrk3	
θ	θ	θ	greek small letter theta, U+03B8 ISOgrk3	
ι	ι	ι	greek small letter iota, U+03B9 ISOgrk3	
κ	κ	κ	greek small letter kappa, U+03BA ISOgrk3	
λ	λ	λ	greek small letter lambda, U+03BB ISOgrk3	
μ	μ	μ	greek small letter mu, U+03BC ISOgrk3	
ν	ν	ν	greek small letter nu, U+03BD ISOgrk3	
ξ	ξ	ξ	greek small letter xi, U+03BE ISOgrk3	
ο	ο	ο	greek small letter omicron, U+03BF NEW	
π	π	π	greek small letter pi, U+03C0 ISOgrk3	
ρ	ρ	ρ	greek small letter rho, U+03C1 ISOgrk3	
ς	ς	ς	greek small letter final sigma, U+03C2 ISOgrk3	

Symbol	Entitiy name	Character number	Description	Notes
σ	σ	σ	greek small letter sigma, U+03C3 ISOgrk3	
τ	τ	τ	greek small letter tau, U+03C4 ISOgrk3	
υ	υ	υ	greek small letter upsilon, U+03C5 ISOgrk3	
φ	φ	φ	greek small letter phi, U+03C6 ISOgrk3	
χ	χ	χ	greek small letter chi, U+03C7 ISOgrk3	
ψ	ψ	ψ	greek small letter psi, U+03C8 ISOgrk3	
ω	ω	ω	greek small letter omega, U+03C9 ISOgrk3	
ϑ	ϑ	ϑ	greek small letter theta symbol, U+03D1 NEW	
ϒ	ϒ	ϒ	greek upsilon with hook symbol, U+03D2 NEW	
ϖ	ϖ	ϖ	greek pi symbol, U+03D6 ISOgrk3	
General Punctuation				
•	•	•	bullet = black small circle, U+2022 ISOpub	bullet is NOT the same as bullet operator, U+2219
…	…	…	horizontal ellipsis = three dot leader, U+2026 ISOpub	
′	′	′	prime = minutes = feet, U+2032 ISOtech	
″	″	″	double prime = seconds = inches, U+2033 ISOtech	
‾	‾	‾	overline = spacing overscore, U+203E NEW	
⁄	⁄	⁄	fraction slash, U+2044 NEW	
Letter-like Symbols				
℘	℘	℘	script capital P = power set = Weierstrass p, U+2118 ISOamso	

Symbol	Entitiy name	Character number	Description	Notes
ℑ	ℑ	ℑ	blackletter capital I = imaginary part, U+2111 ISOamso	
ℜ	ℜ	ℜ	blackletter capital R = real part symbol, U+211C ISOamso	
™	™	™	trade mark sign, U+2122 ISOnum	
ℵ	ℵ	ℵ	alef symbol = first transfinite cardinal, U+2135 NEW	alef symbol is NOT the same as hebrew letter alef, U+05D0 although the same glyph could be used to depict both characters
Arrows				
←	←	←	leftwards arrow, U+2190 ISOnum	
↑	↑	↑	upwards arrow, U+2191 ISOnum	
→	→	→	rightwards arrow, U+2192 ISOnum	
↓	↓	↓	downwards arrow, U+2193 ISOnum	
↔	↔	↔	left right arrow, U+2194 ISOamsa	
↵	↵	↵	downwards arrow with corner leftwards = carriage return, U+21B5 NEW	
⇐	⇐	⇐	leftwards double arrow, U+21D0 ISOtech	Unicode does not say this is the 'is implied by' arrow but does not have another character for that function. So ? lArr can be used for 'is implied by' as ISOtech suggests
⇑	⇑	⇑	upwards double arrow, U+21D1 ISOamsa	
⇒	⇒	⇒	rightwards double arrow, U+21D2 ISOtech	Unicode does not say this is the 'implies' character but does not have another character for that function. So ? rArr can be used for 'implies' as ISOtech suggests

Symbol	Entitiy name	Character number	Description	Notes
⇓	⇓	⇓	downwards double arrow, U+21D3 ISOamsa	
⇔	⇔	⇔	left right double arrow, U+21D4 ISOamsa	
Mathematical Operators				
∀	∀	∀	for all, U+2200 ISOtech	
∂	∂	∂	partial differential, U+2202 ISOtech	
∃	∃	∃	there exists, U+2203 ISOtech	
∅	∅	∅	empty set = null set = diameter, U+2205 ISOamso	
∇	∇	∇	nabla = backward difference, U+2207 ISOtech	
∈	∈	∈	element of, U+2208 ISOtech	
∉	∉	∉	not an element of, U+2209 ISOtech	
∋	∋	∋	contains as member, U+220B ISOtech	should there be a more memorable name than 'ni'?
∏	∏	∏	n-ary product = product sign, U+220F ISOamsb	prod is NOT the same character as U+03A0 'greek capital letter pi' though the same glyph might be used for both
∑	∑	∑	n-ary sumation, U+2211 ISOamsb	sum is NOT the same character as U+03A3 'greek capital letter sigma' though the same glyph might be used for both
−	−	−	minus sign, U+2212 ISOtech	
*	∗	∗	asterisk operator, U+2217 ISOtech	
√	√	√	square root = radical sign, U+221A ISOtech	
∝	∝	∝	proportional to, U+221D ISOtech	
∞	∞	∞	infinity, U+221E ISOtech	

Symbol	Entitiy name	Character number	Description	Notes
∠	∠	∠	angle, U+2220 ISOamso	
∧	∧	∧	logical and = wedge, U+2227 ISOtech	
∨	∨	∨	logical or = vee, U+2228 ISOtech	
∩	∩	∩	intersection = cap, U+2229 ISOtech	
∪	∪	∪	union = cup, U+222A ISOtech	
∫	∫	∫	integral, U+222B ISOtech	
∴	∴	∴	therefore, U+2234 ISOtech	
~	∼	∼	tilde operator = varies with = similar to, U+223C ISOtech	tilde operator is NOT the same character as the tilde, U+007E, although the same glyph might be used to represent both
≅	≅	≅	approximately equal to, U+2245 ISOtech	
≈	≈	≈	almost equal to = asymptotic to, U+2248 ISOamsr	
≠	≠	≠	not equal to, U+2260 ISOtech	
≡	≡	≡	identical to, U+2261 ISOtech	
≤	≤	≤	less-than or equal to, U+2264 ISOtech	
≥	≥	≥	greater-than or equal to, U+2265 ISOtech	
⊂	⊂	⊂	subset of, U+2282 ISOtech	
⊃	⊃	⊃	superset of, U+2283 ISOtech	note that nsup, 'not a superset of, U+2283' is not covered by the Symbol font encoding and is not included. Should it be, for symmetry? It is in ISOamsn
⊄	⊄	⊄	not a subset of, U+2284 ISOamsn	
⊆	⊆	⊆	subset of or equal to, U+2286 ISOtech	
⊇	⊇	⊇	superset of or equal to, U+2287 ISOtech	
⊕	⊕	⊕	circled plus = direct sum, U+2295 ISOamsb	
⊗	⊗	⊗	circled times = vector product, U+2297 ISOamsb	

Symbol	Entitiy name	Character number	Description	Notes
⊥	⊥	⊥	up tack = orthogonal to = perpendicular, U+22A5 ISOtech	
⋅	⋅	⋅	dot operator, U+22C5 ISOamsb	dot operator is NOT the same character as U+00B7 middle dot
Miscellaneous Technical				
⌈	⌈	⌈	left ceiling = apl upstile, U+2308 ISOamsc	
⌉	⌉	⌉	right ceiling, U+2309 ISOamsc	
⌊	⌊	⌊	left floor = apl downstile, U+230A ISOamsc	
⌋	⌋	⌋	right floor, U+230B ISOamsc	
⟨	⟨	〈	left-pointing angle bracket = bra, U+2329 ISOtech	lang is NOT the same character as U+003C 'less than' or U+2039 'single left-pointing angle quotation mark'
⟩	⟩	〉	right-pointing angle bracket = ket, U+232A ISOtech	rang is NOT the same character as U+003E 'greater than' or U+203A 'single right-pointing angle quotation mark'
Geometric Shapes				
◊	◊	◊	lozenge, U+25CA ISOpub	
Miscellaneous Symbols				
♠	♠	♠	black spade suit, U+2660 ISOpub	black here seems to mean filled as opposed to hollow

Symbol	Entitiy name	Character number	Description	Notes
♣	♣	♣	black club suit = shamrock, U+2663 ISOpub	
♥	♥	♥	black heart suit = valentine, U+2665 ISOpub	
♦	♦	♦	black diamond suit, U+2666 ISOpub	