Entities List

allen press

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Character	Entity	Description
↞	↞	leftwards two headed arrow
↠	↠	rightwards two headed arrow
↶	↶	anticlockwise top semicircle arrow
↷	↷	clockwise top semicircle arrow
⇓	⇓	downwards double arrow
↓	↓	downwards arrow
⇊	&darr2;	downwards paired arrows
⇃	⇃	downwards harpoon with barb leftwards
⇂	⇂	downwards harpoon with barb rightwards
↙	&dlarr;	south west arrow
↘	&drarr;	south east arrow
⇔	⇔	left right double arrow
↔	↔	left right arrow
↭	↭	left right wave arrow
⇔	⇔	left right double arrow
⇚	⇚	leftwards triple arrow
⇐	⇐	leftwards double arrow
←	←	leftwards arrow
⇇	&larr2;	leftwards paired arrows
↩	↩	leftwards arrow with hook
↫	↫	leftwards arrow with loop
↢	↢	leftwards arrow with tail
↼	↽	leftwards harpoon with barb downwards
↼	↼	leftwards harpoon with barb upwards
⇆	&lrarr2;	leftwards arrow over rightwards arrow
⇋	&lrhar2;	leftwards harpoon over rightwards harpoon
↦	↦	rightwards arrow from bar
↗	↗	north east arrow
⇎	⇎	left right double arrow with stroke
↮	↮	left right arrow with stroke
⇍	⇍	leftwards double arrow with stroke
↚	↚	leftwards arrow with stroke
⇏	⇏	rightwards double arrow with stroke
↛	↛	rightwards arrow with stroke
↖	↖	north west arrow
↺	↺	anticlockwise open circle arrow
↻	↻	clockwise open circle arrow
⇛	⇛	rightwards triple arrow
⇒	⇒	rightwards double arrow
→	→	rightwards arrow
⇉	&rarr2;	rightwards paired arrows
↪	↪	rightwards arrow with hook
↬	↬	rightwards arrow with loop
↣	↣	rightwards arrow with tail
⇝	↝	rightwards wave arrow
⇁	⇁	rightwards harpoon with barb downwards
⇀	⇀	rightwards harpoon with barb upwards
⇄	&rlarr2;	rightwards arrow over leftwards arrow
⇌	&rlhar2;	rightwards harpoon over leftwards harpoon
↘	↘	south east arrow
↙	↙	south west arrow
⇑	⇑	upwards double arrow
↑	↑	upwards arrow
⇈	&uarr2;	upwards paired arrows
↿	↿	upwards harpoon with barb leftwards
↾	↾	upwards harpoon with barb rightwards
⇕	⇕	up down double arrow
↕	↕	up down arrow

Character	Entity	Description
■	█	full block
&	&	ampersand
’	'	apostrophe
*	*	asterisk
\	\	reverse solidus
$	$	dollar sign
=	=	equals sign
>	>	greater-than sign
{	{	left curly bracket
_	_	low line
(	(	left parenthesis
[	[	left square bracket
<	<	less-than sign
#	#	number sign
%	%	percent sign
+	+	plus sign
"	"	quotation mark
}	}	right curly bracket
)	)	right parenthesis
]	]	right square bracket
/	/	solidus
|			vertical line
Æ	Æ	latin capital letter ae
Ð	Ð	latin capital letter eth
Ø	Ø	latin capital letter o with stroke
Þ	Þ	latin capital letter thorn
æ	æ	latin small letter ae
Å	Å	latin capital letter a with ring above
¢	¢	cent sign
©	©	copyright sign
¤	¤	currency sign
°	°	degree sign
÷	÷	division sign
ð	ð	latin small letter eth
½	½	vulgar fraction one half
¼	¼	vulgar fraction one quarter
¾	¾	vulgar fraction three quarters
½	½	vulgar fraction one half

Character	Entity	Description
¡	¡	inverted exclamation mark
¿	¿	inverted question mark
«	«	left-pointing double angle quotation mark
μ	µ	micro sign
·	·	middle dot
¬	¬	not sign
ª	ª	feminine ordinal indicator
º	º	masculine ordinal indicator
ø	ø	latin small letter o with stroke
¶	¶	pilcrow sign
±	±	plus-minus sign
£	£	pound sign
»	»	right-pointing double angle quotation mark
®	®	registered sign
§	§	section sign
-		soft hyphen
ß	ß	latin small letter sharp s
þ	þ	latin small letter thorn
×	×	multiplication sign
¥	¥	yen sign
✓	✓	check mark
✗	✗	ballot x
✠	✠	maltese cross
✶	✶	six pointed black star
‡	‡	double dagger
″	″	double prime
‖	‖	double vertical line
‵	‵	reversed prime
•	•	bullet
‸	⁁	caret insertion point
†	†	dagger
		em space
		en space
		thin space
		hair space
		no-break space
. . .	…	horizontal ellipsis

Character	Entity	Description	Character	Entity	Description
—	―	horizontal bar	△	▵	white up-pointing small triangle
▪	⁃	hyphen bullet	▲	▴	black up-pointing small triangle
-	‐	hyphen	▽	▽	white down-pointing triangle
“	“	left double quotation mark	△	△	white up-pointing triangle
„	„	double low-9 quotation mark	Đ	Đ	latin capital letter d with stroke
*	∗	low asterisk	Ŋ	Ŋ	latin capital letter eng
‘	‘	left single quotation mark	Ħ	Ħ	latin capital letter h with stroke
‚	‚	single low-9 quotation mark	Ł	Ł	latin capital letter l with stroke
—	—	em dash	Œ	Œ	latin capital ligature oe
. . .	…	horizontal ellipsis	Ŧ	Ŧ	latin capital letter t with stroke
–	–	en dash	đ	đ	latin small letter d with stroke
‰	‰	per mille sign	ŋ	ŋ	latin small letter eng
′	′	prime	ħ	ħ	latin small letter h with stroke
”	”	right double quotation mark	ı	ı	latin small letter dotless i
”	”	right double quotation mark	ĸ	ĸ	latin small letter kra
’	’	right single quotation mark	ł	ł	latin small letter l with stroke
’	’	right single quotation mark	œ	œ	latin small ligature oe
‴	‴	triple prime	ŧ	ŧ	latin small letter t with stroke
	◯	large circle	*f*	ƒ	latin small letter f with hook
○	○	white circle	ȷ	&jnodot;	latin small letter dotless j
▽	▿	white down-pointing small triangle	ℋ	ℋ	script capital h
▼	▾	black down-pointing small triangle	ℵ	ℵ	alef symbol
◇	◊	lozenge	ℬ	ℬ	script capital b
◁	◃	white left-pointing small triangle	ב	ℶ	bet symbol
◀	◂	black left-pointing small triangle	ד	ℸ	dalet symbol
▷	▹	white right-pointing small triangle	ℓ	ℓ	script small l
▶	▸	black right-pointing small triangle	ג	ℷ	gimel symbol
□	□	white square	ℋ	ℋ	script capital h
□	□	white square	ℑ	ℑ	black-letter capital i
▪	▪	black small square	℅	℅	care of
▒	▒	medium shade	*o*	ℴ	script small o
▒	░	light shade	ℳ	ℳ	script capital m
▓	▓	dark shade			

Character	Entity	Description
ℏ	ℏ	planck constant over two pi
ℜ	ℜ	black-letter capital r
℞	℞	prescription take
™	™	trade mark sign
℘	℘	script capital p
⋒	⋒	double intersection
⋓	⋓	double union
⋙	⋙	very much greater-than
≫	≫	much greater-than
⋘	⋘	very much less-than
≪	≪	much less-than
⋐	⋐	double subset
⋑	⋑	double superset
⊩	⊩	forces
⊪	⊪	triple vertical bar right turnstile
∧	∧	logical and
∠	∠	angle
∟	&ang90;	right angle
⍼	∡	measured angle
∢	∢	spherical angle
≈	≈	almost equal to
≊	≊	almost equal or equal to
≍	≍	equivalent to
∵	∵	because
⊥	⊥	up tack
⋈	⋈	bowtie
∽	∽	reversed tilde
⋍	⋍	reversed tilde equals
≎	≎	geometrically equivalent to
≏	≏	difference between
∩	∩	intersection
≗	≗	ring equal to
≔	≔	colon equals
∁	∁	complement
∘	∘	ring operator
≅	≅	approximately equal to
∲	∮	contour integral
∐	∐	n-ary coproduct
≺	⋞	equal to or precedes
≻	⋟	equal to or succeeds
∪	∪	union
≼	&cupre;	precedes or equal to
⋎	⋎	curly logical or
⋏	⋏	curly logical and
⊣	⊣	left tack
⋄	⋄	diamond operator
⋇	⋇	division times
⋱	⋱	down right diagonal ellipsis
≒	≑	geometrically equal to
≗	≖	ring in equal to
≕	≕	equals colon
≒	≒	approximately equal to or the image of
∅	∅	empty set
≡	≡	identical to
≓	≓	image of or approximately equal to
≐	≐	approaches the limit
∃	∃	there exists
∀	∀	for all
⋔	⋔	pitchfork
≧	≧	greater-than over equal to
≥	≥	greater-than or equal to
⋛	⋛	greater-than equal to or less-than
≷	≷	greater-than or less-than
≩	≩	greater-than but not equal to
≳	⋧	greater-than but not equivalent to
⩾	&gsdot;	greater-than with dot
≳	≳	greater-than or equivalent to
∞	∞	infinity
∫	∫	integral
∈	∈	element of
≦	≦	less-than over equal to
⩿	&ldot;	less-than with dot
≤	≤	less-than or equal to
⋚	⋚	less-than equal to or greater-than

Character	Entity	Description
⩽	≶	less-than or greater-than
≨	≨	less-than but not equal to
≨	⋦	less-than but not equivalent to
≲	≲	less-than or equivalent to
⋋	⋋	left semidirect product
⋉	⋉	left normal factor semidirect product
⊴	⊴	normal subgroup of or equal to
∣	∣	divides
−	−	minus sign
⊟	⊟	squared minus
∓	∓	minus-or-plus sign
⊨	⊧	models
⊸	⊸	multimap
⊯	⊯	negated double vertical bar double right turnstile
⊮	⊮	does not force
∇	∇	nabla
≉	≉	not almost equal to
≇	≇	neither approximately nor actually equal to
≠	≠	not equal to
≢	≢	not identical to
∄	∄	there does not exist
≱	≧̸	greater-than over equal to with slash
≱	≱	neither greater-than nor equal to
≯	≯	not greater-than
∋	∋	contains as member
≦̸	≦̸	less-than over equal to with slash
≰	≰	neither less-than nor equal to
≮	≮	not less-than
⋪	⋪	not normal subgroup of
⋬	⋬	not normal subgroup of or equal to
∤	∤	does not divide
∉	∉	not an element of
∦	∦	not parallel to
⊀	⊀	does not precede
⋫	⋫	does not contain as normal subgroup
⋭	⋭	does not contain as normal subgroup or equal
⊁	⊁	does not succeed
≁	≁	not tilde
≄	≄	not asymptotically equal to
⊄	⊄	not a subset of
⊈	⊈	neither a subset of nor equal to
⊅	⊅	not a superset of
⊉	⊉	neither a superset of nor equal to
⊭	⊭	not true
⊬	⊬	does not prove
⊛	⊛	circled asterisk operator
⊚	⊚	circled ring operator
⊝	⊝	circled dash
⊙	⊙	circled dot operator
⊖	⊖	circled minus
⊕	⊕	circled plus
⋁	∨	logical or
⊘	⊘	circled division slash
⊗	⊗	circled times
∥	∥	parallel to
∂	∂	partial differential
⊥	⊥	up tack
⊞	⊞	squared plus
∔	∔	dot plus
≺	≺	precedes
⪹	⋨	precedes but not equivalent to
∏	∏	n-ary product
∝	∝	proportional to
≾	≾	precedes or equivalent to
√	√	square root
⋊	⋌	right semidirect product

Character	Entity	Description
⋊	⋊	right normal factor semidirect product
⊵	⊵	contains as normal subgroup or equal to
∐	&samalg;	n-ary coproduct
≻	≻	succeeds
≽	≽	succeeds or equal to
⪸	⋩	succeeds but not equivalent to
≿	≿	succeeds or equivalent to
⋅	⋅	dot operator
⊡	⊡	squared dot operator
∖	∖	set minus
∼	∼	tilde operator
≃	≃	asymptotically equal to
⊓	⊓	square cap
⊔	⊔	square cup
⊏	⊏	square image of
⊑	⊑	square image of or equal to
⊐	⊐	square original of
⊒	⊒	square original of or equal to
⊂	⊂	subset of
⊆	⊆	subset of or equal to
⊊	⊊	subset of with not equal to
⋐	⊂	subset of
∑	∑	n-ary summation
⊃	⊃	superset of
⊇	⊇	superset of or equal to
⊋	⊋	superset of with not equal to
⊃	⊃	superset of
∴	∴	therefore
⊤	⊤	down tack
≜	≜	delta equal to
≬	≬	between
⊎	⊎	multiset union
⊨	⊨	true
⊢	⊢	right tack
⊻	⊻	xor
⋮	⋮	vertical ellipsis
◁	⊲	normal subgroup of
∝	∝	proportional to
▷	⊳	contains as normal subgroup
⫋	⊊︀	subset of with not equal to - variant with stroke through bottom members
⫌	⊋︀	superset of with not equal to - variant with stroke through bottom members
≙	≙	estimates
≀	≀	wreath product
⟨	⟨	mathematical left angle bracket
⟩	⟩	mathematical right angle bracket
◆	⧫	black lozenge
♣	♣	black club suit
♦	♦	black diamond suit
♀	♀	female sign
♭	♭	music flat sign
♥	♥	black heart suit
♂	♂	male sign
♮	♮	music natural sign
☎	☎	black telephone
♯	♯	music sharp sign
♠	♠	black spade suit
☆	☆	white star
★	★	black star
♪	♪	eighth note
⩒	⌆	perspective
⌅	⌅	projective
⌢	⌢	frown
⌈	⌈	left ceiling
⌊	⌊	left floor
⌉	⌉	right ceiling
⌋	⌋	right floorX
⩽	⩽	less-than or slanted equal to
⪉	⪉	less-than and not approx
⪇	⪇	less-than and single-line not equal to
⩾	⩾̸	greater-than or slanted equal to with slash

Character	Entity	Description	Character	Entity	Description
⩽̸	⩽̸	less-than or slanted equal to with slash	≻	⪰	succeeds above single-line equals sign
⪯̸	⪯̸	precedes above single-line equals sign with slash	⪺	⪺	succeeds above not almost equal to
⪰̸	⪰̸	succeeds above single-line equals sign with slash	⫅	⫅	subset of above equals sign
⫅̸	⫅̸	subset of above equals sign with slash	⫋	⫋	subset of above not equal to
⫆̸	⫆̸	superset of above equals sign with slash	⫆	⫆	superset of above equals sign
⪷	⪷	precedes above almost equal to	⫌	⫌	superset of above not equal to
≺	⪯	precedes above single-line equals sign	⫋	⫋︀	subset of above not equal to - variant with stroke through bottom members
⪹	⪹	precedes above not almost equal to	⫌	⫌︀	superset of above not equal to - variant with stroke through bottom members
⪸	⪸	succeeds above almost equal to			

BLACKBOARD/DOUBLE-STRUCK/OPEN FACE CHARATERS

Entities for openface characters are the letter followed by "opf".

e.g., The entity for an open face M (𝕄) is 𝕄

𝔸 𝔹 ℂ 𝔻 𝔼 𝔽 𝔾 ℍ 𝕀 𝕁 𝕂 𝕃 𝕄 ℕ 𝕆 ℙ ℚ ℝ 𝕊 𝕋 𝕌 𝕍 𝕎 𝕏 𝕐 ℤ

SCRIPT LETTERS

Entities for script letters are the letter followed by "scr".

e.g., The entity for a script H ($\mathcal{H}$) is ℋ

$\mathcal{A}\ \mathcal{B}\ \mathcal{C}\ \mathcal{D}\ \mathcal{E}\ \mathcal{F}\ \mathcal{G}\ \mathcal{H}\ \mathcal{I}\ \mathcal{J}\ \mathcal{K}\ \mathcal{L}\ \mathcal{M}\ \mathcal{N}\ \mathcal{O}\ \mathcal{P}\ \mathcal{Q}\ \mathcal{R}\ \mathcal{S}\ \mathcal{T}\ \mathcal{U}\ \mathcal{V}\ \mathcal{W}\ \mathcal{X}\ \mathcal{Y}\ \mathcal{Z}$

Accents

Character	Entity	Description	Character	Entity	Description
´	´	acute accent	`	`	grave accent
˘	˘	breve	¯	¯	macron
ˇ	ˇ	caron	˛	˛	ogonek
¸	¸	cedilla	˚	˚	ring above
ˆ	ˆ	modifier letter circumflex accent	˜	˜	small tilde
˝	˝	double acute accent	¨	¨	diaeresis
˙	˙	dot above			

ENTITIES FOR ACCENTED LETTERS

Entities for letters that have accents are simply the letter + the accent entity name.

e.g., The entity for letter 'a' with a tilde (ã) is ã or letter 'e' with an acute (é) is é.

IMPORTANT: See the Allen Press Custom Entities for 10 exceptions to using this pattern when creating entities for accented letters.

Allen Press Custom Entities

Character	Entity	Description	Character	Entity	Description
Ḷ	&APLdot;	uppercase l with a dot over it	ị	&APldot;	lowercase l with a dot over it
Ọ	&APOdot;	uppercase o with a dot over it	ọ	&APodot;	lowercase o with a dot over it
Ṡ	&APSdot;	uppercase s with a dot over it	ṡ	&APsdot;	lowercase s with a dot over it
Ṫ	&APTdot;	uppercase t with a dot over it	ṭ	&APtdot;	lowercase t with a dot over it
X̂	&APXcirc;	uppercase x with a circumflex over it	x̂	&APxcirc;	lowercase x with a circumflex over it

Greek Letters

Character	Entity	Description	Character	Entity	Description
Δ	Δ	greek capital letter delta	ι	ι	greek small letter iota
Γ	Γ	greek capital letter gamma	κ	κ	greek small letter kappa
Λ	Λ	greek capital letter lamda	λ	λ	greek small letter lamda
Ω	Ω	greek capital letter omega	μ	μ	greek small letter mu
Φ	Φ	greek capital letter phi	ν	ν	greek small letter nu
Π	Π	greek capital letter pi	Ω	Ω	greek capital letter omega
Ψ	Ψ	greek capital letter psi	ω	ω	greek small letter omega
Σ	Σ	greek capital letter sigma	ϕ	φ	greek small letter phi
Θ	Θ	greek capital letter theta	ϕ	&phis;	greek phi symbol
ϒ	ϒ	greek upsilon with hook symbol	φ	ϕ	greek phi symbol
Ξ	Ξ	greek capital letter xi	π	π	greek small letter pi
α	α	greek small letter alpha	ϖ	ϖ	greek pi symbol
ɜ	϶	greek reversed lunate epsilon symbol	ψ	ψ	greek small letter psi
β	β	greek small letter beta	ρ	ρ	greek small letter rho
χ	χ	greek small letter chi	ϱ	ϱ	greek rho symbol
δ	δ	greek small letter delta	σ	σ	greek small letter sigma
ε	ε	greek small letter epsilon	ς	ς	greek small letter final sigma
ϵ	ε	greek small letter epsilon	τ	τ	greek small letter tau
ϵ	&epsis;	greek lunate epsilon symbol	θ	θ	greek small letter theta
ε	ϵ	greek lunate epsilon symbol	θ	&thetas;	greek small letter theta
η	η	greek small letter eta	ϑ	ϑ	greek theta symbol
γ	γ	greek small letter gamma	υ	υ	greek small letter upsilon
			ξ	ξ	greek small letter xi
			ζ	ζ	greek small letter zeta

ENTITIES FOR ACCENTED GREEK CHARATERS

Entities for Greek characters that have accents are simply the Greek letter entity name + the accent entity name.

e.g., The entity for an alpha acute (ά) is &alphaacute; or
the entity for a theta circ (θ̂) is &thetacirc;.