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# CHARACTER ENTITY REFERENCE

A *character entity* is a code used to represent a character that doesn't belong to the document's [character set](#). With this mechanism, authors of [HTML documents](#) can insert symbols by writing strings

composed by well known and widely supported characters.

There are three ways to write a character entity, and all of them start with an ampersand ("&") and end with a semicolon (";"):

- **By its entity name:** a standarized and unique name for each character (for example, **&aacute;** for "á").
- **By its decimal code:** a number sign ("#") followed by a decimal code, unique for each character (for example, **&#225;** for "á").
- **By its hexadecimal code:** a number sign ("#") followed by a lowercase letter X followeb by a hexadecimal code, unique for each character (for example, **&x000E1;** for "á").

## CHARACTER ENTITIES TABLE

Below is the list of all character entities available in HTML5. For each character in it, all possible ways to insert it are provided.

&Tab;	&NewLine;
! &excl;	" &quot; &QUOT;
# &num;	\$ &dollar;
% &percnt;	& &amp; &AMP;
' &apos;	( &lpar;
) &rpar;	* &ast; &midast;

+	,
&plus;	&comma;
.	/
&period;	&sol;
:	;
&colon;	&semi;
<	=
&lt; &LT;	&equals;
>	?
&gt; &GT;	&quest;
@	[
&commat;	&lsqb; &lbrack;

<p>\</p> <p>&amp;bsol;</p>	<p>]</p> <p>&amp;rsqb; &amp;rbrack;</p>
<p>^</p> <p>&amp;Hat;</p>	<p>—</p> <p>&amp;lowbar;</p>
<p>`</p> <p>&amp;grave;; &amp;Diacritical Grave;</p>	<p>{</p> <p>&amp;lcb; &amp;lbrace;</p>
<p> </p> <p>&amp;verbar; &amp;vert; &amp;VerticalLine;</p>	<p>}</p> <p>&amp;rcub; &amp;rbrace;</p>
<p> </p> <p>&amp;NonBreaking Space;</p>	<p>¡</p> <p>&amp;iexcl;</p>
<p>¢</p> <p>&amp;cent;</p>	<p>£</p> <p>&amp;pound;</p>

¤	¥
&curren;	&yen;
׀	§
&brvbar;	&sect;
‥ &Dot; &die; &DoubleDot; &uml;	© &copy; &COPY;
¤	« &laquo;
¬ &not;	&shy;
® &reg; &circledR; &REG;	— &macr; &OverBar; &strns;

o &deg;	± &plusmn; &pm; &PlusMinus;
2 &sup2;	3 &sup3;
' &acute; &DiacriticalAcute;	μ &micro;
¶ &para;	• &middot; &centerdot; &CenterDot;
¤ &cedil; &Cedilla;	¹ &sup1;
º &ordm;	» &raquo;

$\frac{1}{4}$ &frac14;	$\frac{1}{2}$ &frac12; &half;
$\frac{3}{4}$ &frac34;	⌚ &iquest;
À &Agrave;	Á &Aacute;
Â &Acirc;	Ã &Atilde;
Ä &Auml;	Å &Aring;
Æ &AElig;	Ҫ &Ccedil;

È &Egrave;;	É &Eacute;;
Ê &Ecirc;;	Ë &Euml;;
Ì &Igrave;;	Í &Iacute;;
Î &Icirc;;	Ï &Iuml;;
Ð &ETH;;	Ñ &Ntilde;;
Ò &Ograve;;	Ó &Oacute;;

Ô &Ocirc;	Õ &otilde;
Ö &Ouml;	× &times;
Ø &oslash;	Ù &Ugrave;
Ú &Uacute;	Û &Ucirc;
Ü &Uuml;	Ý &Yacute;
Þ &THORN;	ß &szlig;

à &agrave;	á &aacute;
â &acirc;	ã &atilde;
ää &auml;	å &aring;
æ &aelig;	ç &ccedil;
è &egrave;	é &eacute;
ê &ecirc;	ë &euml;

í &igrave;	í &iacute;
î &icirc;	ï &iuml;
ð &eth;	ñ &ntilde;
ò &ograve;	ó &oacute;
ô &ocirc;	õ &otilde;
ö &ouml;	÷ &divide; &div;

Ø

&oslash;

Ù

&ugrave;

Ú

&uacute;

Û

&ucirc;

Ü

&uuml;

Ý

&yacute;

þ

&thorn;

ÿ

&yuml;

Ā

&Amacr;

ā

&amacr;

Ă

&Abreve;

ă

&abreve;

A &Aogon;	a &aogon;
Ć &Cacute;	ć &cacute;
Ĉ &Ccirc;	ĉ &ccirc;
Ċ &Cdot;	ċ &cdot;
܂ &Ccaron;	܃ &ccaron;
܂ &Dcaron;	܃ &dcaron;

Đ &Dstrok;	đ &dstrok;
Ē &Emacr;	ē &emacr;
Ę &Edot;	ę &edot;
Ę &Eogon;	ę &eogon;
Ě &Ecaron;	ě &ecaron;
Ĝ &Gcirc;	ĝ &gcirc;

Ѓ

&Gbreve;

ѓ

&gbreve;

Ѓ

&Gdot;

ѓ

&gdot;

Ѓ

&Gcedil;

Ќ

&Hcirc;

ќ

&hcirc;

Ќ

&Hstrok;

Ћ

&hstrok;

Ћ

&Itilde;

Ћ

&itilde;

Ћ

&Imacr;

$\bar{i}$ &imacr;	$\ddot{I}$ &Iogon;
$\dot{i}$ &iogon;	$\dot{I}$ &Idot;
$\mathbf{i}$ &imath; &inodot;	$IJ$ &IJlig;
$\mathbf{ij}$ &ijlig;	$\hat{J}$ &Jcirc;
$\hat{j}$ &jcirc;	$\mathbf{K}$ , &Kcedil;
$\mathbf{k}$ , &kcedil;	$K$ &kgreen;

Ł

&Lacute;

í

&iacute;

Ł

&Lcedil;

ł

&lcedil;

Ł

&Lcaron;

ł

&lcaron;

Ł

&Lmidot;

ł

&lmidot;

Ł

&Lstrok;

ł

&lstrok;

Ń

&Nacute;

ń

&nacute;

N &Ncedil;	n &ncedil;
њ &Ncaron;	њ &ncaron;
’н &napos;	Њ &ENG;
њ &eng;	Њ &Omacr;
Њ &omacr;	Ѡ &Odblac;
Ѡ &odblac;	Ѿ &OElig;

œ œlig;	Ŕ &Racute;
ŕ &racute;	R, &Rcedil;
r &rcedil;	Ŕ &Rcaron;
ŕ &rcaron;	Ś &Sacute;
ś &sacute;	Ŝ &Scirc;
߂ &scirc;	߃ &Scedil;

ſ &scedil;	ſ &Scaron;
š &scaron;	š &Tcedil;
ț &tcedil;	Ț &Tcaron;
ť &tcaron;	Ͳ &Tstrok;
් &tstrok;	ු &Utilde;
් &utilde;	ු &Umacr;

ū	Ü
&umacr;	&Ubreve;
ú	Ú
&ubreve;	&Uring;
ő	Ű
&uring;	&Udblac;
ű	Ų
&udblac;	&Uogon;
ą	Ŵ
&uogon;	&Wcirc;
ŵ	Ŷ
&wcirc;	&Ycirc;

$\hat{y}$ <code>&amp;ycirc;</code>	$\ddot{Y}$ <code>&amp;Yuml;</code>
$\acute{Z}$ <code>&amp;Zacute;</code>	$\acute{z}$ <code>&amp;zacute;</code>
$\dot{Z}$ <code>&amp;Zdot;</code>	$\dot{z}$ <code>&amp;zdot;</code>
$\check{Z}$ <code>&amp;Zcaron;</code>	$\check{z}$ <code>&amp;zcaron;</code>
$f$ <code>&amp;fnof;</code>	$Z$ <code>&amp;imath;</code>
$g^{\acute{}}$ <code>&amp;gacute;</code>	$J$ <code>&amp;jmath;</code>

^	
&circ;	&caron; &Hacek;
ˇ	
&breve; &Breve;	• &dot; &DiacriticalDot;
◦	
&ring;	‘ &ogon;
˜	
&tilde; &Diacritical Tilde;	“ &dblac; &Diacritical DoubleAcute;
˘	
&DownBreve;	— &UnderBar;
A	B
&Alpha;	&Beta;

$\Gamma$ &Gamma;	$\Delta$ &Delta;
$\mathrm{\acute{E}}$ &Epsilon;	$\mathrm{\acute{Z}}$ &Zeta;
$\mathrm{\acute{H}}$ &Eta;	$\Theta$ &Theta;
$\mathrm{\acute{I}}$ &Iota;	$\mathrm{\acute{K}}$ &Kappa;
$\Lambda$ &Lambda;	$\mathrm{\acute{M}}$ &Mu;
$\mathrm{\acute{N}}$ &Nu;	$\Xi$ &Xi;

O &Omicron;	Π &Pi;
P &Rho;	Σ &Sigma;
T &Tau;	Υ &Upsilon;
Φ &Phi;	X &Chi;
Ψ &Psi;	Ω &Omega;
α &alpha;	β &beta;

$\gamma$ &gamma;	$\delta$ &delta;
$\varepsilon$ &epsiv; &varepsilonpsilonon; &epsilon;	$\zeta$ &zeta;
$\eta$ &eta;	$\theta$ &theta;
$\iota$ &iota;	$\kappa$ &kappa;
$\lambda$ &lambda;	$\mu$ &mu;
$\nu$ &nu;	$\xi$ &xi;

O &omicron;	π &pi;
ρ &rho;	ς &sigmav; &varsigma; &sigmaf;
σ &sigma;	τ &tau;
υ &upsilon;	φ &phi; &phiv; &varphi;
χ &chi;	ψ &psi;
ω &omega;	ϑ &thetav; &vartheta; &thetasym;

Υ &Upsilon; &upsih;	Φ &straightphi;
Ω &piv; &varpi;	F &Gammad;
F &gammad; &digamma;	κ &kappav; &varkappa;
ρ &rhov; &varrho;	ε &epsi; &straight epsilon;
϶ &bepsi; &backepsilon;	Ӭ &IOcy;
Ӯ &DJcy;	Ӿ &GJcy;

E	S
&Jukcy;	&DScy;
I	Ï
&Iukcy;	&YIcy;
J	Љ
&Jsercy;	&LJcy;
Њ	Ћ
&NJcy;	&TSHcy;
Ќ	њ
&KJcy;	&Ubrcy;
Џ	А
&DZcy;	&Acy;

Б &Bcy;	В &Vcy;
Г &Gcy;	Д &Dcy;
Е &IEcy;	Ж &ZHcy;
З &Zcy;	И &Icy;
Й &Jcy;	К &Kcy;
Л &Lcy;	М &Mcy;

H &Ncy;	O &Ocy;
Π &Pcy;	Ρ &Rcy;
C &Scy;	T &Tcy;
y &Ucy;	Φ &Fcy;
X &KHcy;	Ц &TScy;
Ч &CHcy;	ІІІ &SHcy;

Щ &SHCHcy;	Ђ &HARDcy;
Ӯ &Ycy;	Ӷ &SOFTcy;
Ӭ &Ecy;	Ӯ &YUcy;
Ӻ &YAcy;	Ӹ &acy;
ӻ &bcy;	ӹ &vcy;
ӵ &gcy;	ӷ &dcy;

е

&iecy;

Ж

&zhcy;

з

&zcy;

И

&icy;

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&jcy;

К

&kcy;

Л

&lcy;

М

&mcy;

Н

&nct;

О

&ocyt;

П

&pcyt;

Р

&rct;

C &scy;	T &tcy;
y &ucy;	Φ &fcy;
X &khcy;	Ц &tscy;
Ч &chcy;	Ш &shcy;
Щ &shchcy;	Ђ &hardcy;
Ӯ &yacy;	Ӷ &softcy;

Ѐ

&amp;ecy;

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&amp;yucy;

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&amp;yacy;

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&amp;iocy;

Ђ

&amp;djcy;

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&amp;gjcy;

Ӗ

&amp;jukcy;

Ҫ

&amp;dscy;

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&amp;iukcy;

Ӯ

&amp;yicy;

ӂ

&amp;jsercy;

Ӆ

&amp;ljcy;

њ	њ
&njcy;	&tshcy;
ќ	њ
&kjcy;	&ubrcy;
Џ	&ensp;
&dzcyy;	
&emsp;	&emsp13;
&emsp14;	&numsp;
&puncsp;	&thinsp; &ThinSpace;

&hairsp;  
&VeryThinSpace;

&ZeroWidthSpace;  
&NegativeThin  
Space;

&zwnj;

&zwj;

&lrm;

&rmlm;

-  
&hyphen; &dash;

—  
&ndash;

—  
&mdash;

—  
&horbar;

||  
&Verbar; &Vert;

‘  
&lsquo;  
&OpenCurlyQuote;

,	,
&rsquo; &rsquor; &CloseCurlyQuote;	&lsquor; &sbquo;
“ &ldquo; &OpenCurlyDoubleQuote;	” &rdquo; &rdquor; &CloseCurlyDoubleQuote;
„ &lquor; &bdquo;	† &dagger;
‡ &Dagger; &ddagger;	• &bull; &bullet;
.. &nldr;	... &hellip; &mldr;
%o &permil;	%oo &pertenk;

'	"
&prime;;	&Prime;;
''	'
&tprime;;	&bprime;; &backprime;;
<	>
&lquo;;	&rquo;;
—	λ
&oline;;	&caret;;
-	/
&hybull;;	&frasl;;
:	‴
&bsemi;;	&qprime;;

&MediumSpace;	&NoBreak;
&ApplyFunction; &af;	&InvisibleTimes; &it;
&InvisibleComma; &ic;	€ &euro;
...  &tdot; &TripleDot;	....  &DotDot;
ℂ  &Copf; &complexes;	%  &incare;
ℊ  &gscr;	ℋ  &hamilt; &Hilbert Space; &Hscr;

$\mathfrak{H}$ &Hfr; &Poincare plane;	$\mathbb{H}$ &quaternions; &Hopf;
$h$ &planckh;	$\hbar$ &planck; &hbar; &plankv; &hslash;
$\mathcal{I}$ &Iscr; &imagine;	$\Im$ &image; &Im; &imagpart; &Ifrr;
$\mathcal{L}$ &Lscr; &lagran; &Laplacetrfr;	$\ell$ &ell;
$\mathbb{N}$ &Nopf; &naturals;	$\mathbb{N}\text{\o}$ &numero;
(P) &copyrs;	$\wp$ &weierp; &wp;

P &Popf; &primes;	Q &rational; &Qopf;
R &Rscr; &realine;	R &real; &Re; &realpart; &Rfr;
R &reals; &Ropf;	R &rx;
TM &trade; &TRADE;	Z &integers; &Zopf;
Ω &ohm;	σ &mho;
ʒ &Zfr; &zeetrf;	ι &iota;

À	Ù
&angst;	&bernou; &Bernoullis; &Bscr;
Ը	ҩ
&Cfr; &Cayleys;	&escr;
Ծ	Ҩ
&Escr; &expectation;	&Fscr; &Fouriertrf;
ℳ	ℴ
&phmmat; &Mellintrf; &Mscr;	&order; &orderof; &oscr;
ℵ	beth;
ג	daleth;
ל	

$D$ <code>&amp;Capital DifferentialD; &amp;DD;</code>	$d$ <code>&amp;DifferentialD; &amp;dd;</code>
$e$ <code>&amp;ExponentialE; &amp;exponentiale; &amp;ee;</code>	$\dot{l}$ <code>&amp;ImaginaryI; &amp;ii;</code>
$\frac{1}{3}$ <code>&amp;frac13;</code>	$\frac{2}{3}$ <code>&amp;frac23;</code>
$\frac{1}{5}$ <code>&amp;frac15;</code>	$\frac{2}{5}$ <code>&amp;frac25;</code>
$\frac{3}{5}$ <code>&amp;frac35;</code>	$\frac{4}{5}$ <code>&amp;frac45;</code>
$\frac{1}{6}$ <code>&amp;frac16;</code>	$\frac{5}{6}$ <code>&amp;frac56;</code>

$\frac{1}{8}$ &frac18;	$\frac{3}{8}$ &frac38;
$\frac{5}{8}$ &frac58;	$\frac{7}{8}$ &frac78;
$\leftarrow$ &larr;; &LeftArrow;; &slarr;; &ShortLeftArrow;;	$\uparrow$ &uarr;; &UpArrow;; &ShortUpArrow;;
$\rightarrow$ &rarr;; &RightArrow;; &srarr;; &ShortRightArrow;;	$\downarrow$ &darr;; &DownArrow;; &ShortDownArrow;;
$\leftrightarrow$ &harr;; &LeftRight Arrow;;	$\updownarrow$ &varr;; &updownarrow;; &UpDownArrow;;
$\nwarrow$ &nwarr;; &UpperLeftArrow;; &nwarw;;	$\nearrow$ &nearr;; &UpperRightArrow;; &nearw;;

	
&searr; &searrow; &LowerRightArrow;	&swarr; &swarrow; &LowerLeftArrow;
	
&nlarr; &nleftarrow;	&nrarr; &nrightarrow;
	
&rarrw; &rightsquigarrow;	&Larr; &twoheadleft arrow;
	
&Uarr;	&Rarr; &twoheadright arrow;
	
&Darr;	&larrtl; &leftarrowtail;
	
&rarrrtl; &rightarrowtail;	&LeftTeeArrow; &mapstoleft;

↑	→
&UpTeeArrow; &mapstoup;	&map; &RightTeeArrow; &mapsto;
↓	↔
&DownTeeArrow; &mapstodown;	&larrhk; &hookleftarrow;
↶	↔ρ
&rarrhk; &hookrightarrow;	&larrlp; &looparrowleft;
↷	↔~
&rarrlp; &looparrowright;	&harrw; &leftrightsquigarrow;
↔/	↖
&nharr; &nleftrightarrow;	&lsh; &Lsh;
↗	↙
&rsh; &Rsh;	&ldsh;

	&rdsh;
	&crarr;
	&cularr; &curvearrowleft;
	&curarr; &curvearrowright;
	&olarr; &circlearrowleft;
	&orarr; &circlearrowright;
	&lharu; &LeftVector; &leftharpoonup;
	&lhard; &leftharpoondown; &DownLeftVector;
	&uharr; &upharpoonright; &RightUpVector;
	&uharl; &upharpoonleft; &LeftUpVector;
	&rharu; &RightVector; &rightharpoonup;
	&rhard; &right harpoondown; &DownRightVector;

$\downarrow$  <code>&amp;dharr; &amp;RightDownVector; &amp;downharpoon right;</code>	$\downarrow$  <code>&amp;dharl; &amp;LeftDown Vector; &amp;downharpoonleft;</code>
$\leftrightarrow$  <code>&amp;rlarr; &amp;rightleftarrows; &amp;RightArrow LeftArrow;</code>	$\updownarrow$  <code>&amp;udarr; &amp;UpArrow DownArrow;</code>
$\leftrightarrow$  <code>&amp;lrarr; &amp;leftrightarrows; &amp;LeftArrow RightArrow;</code>	$\Leftarrow\Rightarrow$  <code>&amp;llarr; &amp;leftleft arrows;</code>
$\upuparrows$  <code>&amp;uuarr; &amp;upuparrows;</code>	$\rightarrow\rightarrow$  <code>&amp;rrarr; &amp;rightright arrows;</code>
$\downdownarrows$  <code>&amp;ddarr; &amp;downdown arrows;</code>	$\leftrightharpoons$  <code>&amp;lrvbar; &amp;Reverse Equilibrium; &amp;leftright harpoons;</code>
$\rightleftharpoons$  <code>&amp;rlhar; &amp;rightleft harpoons; &amp;Equilibrium;</code>	$\not\Leftarrow$  <code>&amp;nlaArr; &amp;nLeftarrow;</code>

$\Leftrightarrow$	$\not\Rightarrow$
<code>&amp;nhArr;</code> <code>&amp;nLeftrightarrow;</code>	<code>&amp;nrArr;</code> <code>&amp;nRightarrow;</code>
$\Leftarrow$	$\Uparrow$
<code>&amp;lArr;</code> <code>&amp;Leftarrow;</code> <code>&amp;DoubleLeftArrow;</code>	<code>&amp;uArr;</code> <code>&amp;Uparrow;</code> <code>&amp;DoubleUpArrow;</code>
$\Rightarrow$	$\Downarrow$
<code>&amp;rArr;</code> <code>&amp;Rightarrow;</code> <code>&amp;Implies;</code> <code>&amp;DoubleRightArrow;</code>	<code>&amp;dArr;</code> <code>&amp;Downarrow;</code> <code>&amp;DoubleDownArrow;</code>
$\Leftrightarrow$	$\Updownarrow$
<code>&amp;hArr;</code> <code>&amp;Leftrightarrow;</code> <code>&amp;DoubleLeftRightArrow;</code> <code>&amp;iff;</code>	<code>&amp;vArr;</code> <code>&amp;Updownarrow;</code> <code>&amp;DoubleUpDownArrow;</code>
$\nwarrow$	$\nearrow$
<code>&amp;nwArr;</code>	<code>&amp;neArr;</code>
$\searrow$	$\swarrow$
<code>&amp;seArr;</code>	<code>&amp;swArr;</code>

←	→
&lAarr; &Lleftarrow;	&rAarr; &Rrightarrow;
⤠	⤠
&zigrarr;	&larrb; &LeftArrowBar;
⤢	⤢
&rarrb; &RightArrowBar;	&duarr; &DownArrow UpArrow;
⤣	⤣
&loarr;	&roarr;
⤤	⤤
&hoarr;	&forall; &ForAll;
⤥	⤥
&comp; &complement;	&part; &PartialD;

$\exists$	$\nexists$
&exist; &Exists;	&nexist; &NotExists; &nexists;
$\emptyset$	$\nabla$
&empty; &emptyset; &emptyv; &varnothing;	&nabla; &Del;
$\in$	$\notin$
&isin; &isinv; &Element; &in;	&notin; &NotElement; &notinva;
$\ni$	$\not\ni$
&niv; &Reverse Element; &ni; &SuchThat;	&notni; &notniva; &NotReverse Element;
$\prod$	$\coprod$
&prod; &Product;	&coprod; &Coproduct;
$\sum$	-
&sum; &Sum;	&minus;

+

&mnplus; &mp;  
&MinusPlus;

+

&plusdo;  
&dotplus;

\

&setmn;  
&setminus;  
&Backslash;  
&ssetmn;  
&smallsetminus;

\*

&amp;lowast;

o

&compfn;  
&SmallCircle;

\vee

&amp;radic; &amp;Sqrt;

\propto

&prop; &propto;  
&Proportional;  
&vprop;  
&varpropto;

\infty

&amp;infin;

\sqsubset

&amp;angrt;

\sqsupset

&amp;ang; &amp;angle;

\measuredangle

&angmsd;  
&measuredangle;

\sphericalangle

&amp;angsph;

&mid; &VerticalBar; &smid; &shortmid;	&nmid; &NotVerticalBar; &nsmid; &nshortmid;
&par; &parallel; &Double VerticalBar; &spar;	&npar; &nparallel; &NotDouble VerticalBar; &nsp;
Λ	∨
&and; &wedge;	&or; &vee;
∩	∪
&cap;	&cup;
∫	∬
&int; &Integral;	&Int;
∯	∮
&tint; &iiint;	&conint; &ooint; &ContourIntegral;

$\&Conint;$ $\&DoubleContour$ $\Integral;$	$\&Cconint;$
$\&cwint;$	$\&cwconint;$ $\&ClockwiseContour$ $\Integral;$
	$\therefore$
$\&awconint;$ $\&CounterClockwise$ $\ContourIntegral;$	$\&there4;$ $\&therefore;$ $\&Therefore;$
$\because$	
$\&becaus;$ $\&because;$ $\&Because;$	$\&ratio;$
$\because\because$	
$\&Colon;$ $\&Proportion;$	$\&minusd;$ $\&dotminus;$
$\&mDDot;$	$\&homtht;$

~	~
&sim; &Tilde; &thksim; &thicksim;	&bsim; &backsim;
∞	∞
&ac; &mstpos;	&acd;
⌚	⌚
&wreath; &VerticalTilde; &wr;	&nsim; &NotTilde;
≂	≂
&esim; &EqualTilde; &eqsim;	&sime; &TildeEqual; &simeq;
≠	≐
&nsime; &nsimeq; &NotTildeEqual;	&cong; &TildeFull Equal;
≍	≍
&simne;	&ncong; &NotTilde FullEqual;

$\approx$  <code>&amp;asymp; &amp;ap; &amp;TildeTilde; &amp;approx; &amp;thkap; &amp;thickapprox;</code>	$\approx\!\!$  <code>&amp;nap; &amp;NotTilde Tilde; &amp;napprox;</code>
$\approx\!\!$  <code>&amp;ape; &amp;approxeq;</code>	$\approx\!\!\!$  <code>&amp;apid;</code>
$\lessapprox$  <code>&amp;bcong; &amp;backcong;</code>	$\gtrapprox$  <code>&amp;asympeq; &amp;CupCap;</code>
$\circlearrowleft$  <code>&amp;bump; &amp;HumpDownHump; &amp;Bumpeq;</code>	$\circlearrowright$  <code>&amp;bumpe; &amp;HumpEqual; &amp;bumpeq;</code>
$\doteq$  <code>&amp;esdot; &amp;DotEqual; &amp;doteq;</code>	$\doteqdot$  <code>&amp;eDot; &amp;doteqdot;</code>
$\doteqdot$  <code>&amp;efDot; &amp;fallingdotseq;</code>	$\doteqdot$  <code>&amp;erDot; &amp;risingdotseq;</code>

$\coloneqq$ &colone; &coloneq; &Assign;	$\eqqcolon$ &ecolon; &eqcolon;
$\approx$ &ecir; &eqcirc;	$\approxeq$ &cire; &circeq;
$\wedgeq$ &wedgeq;	$\veeq$ &veeq;
$\triangleq$ &trie; &triangleq;	$\stackrel{?}{=}$ &equest; &questeq;
$\neq$ &ne; &NotEqual;	$\equiv$ &equiv; &Congruent;
$\not\equiv$ &nequiv; &NotCongruent;	$\leq$ &le; &leq;

≥	≤
&ge; &GreaterEqual; &geq;	&lE; &LessFullEqual; &leqq;
≥	≤
&gE; &GreaterFullEqual; &geqq;	&lnE; &lneqq;
≥	≤
&gnE; &gneqq;	&Lt; &NestedLessLess; &ll;
≥	≤
&Gt; &NestedGreaterGreater; &gg;	&twixt; &between;
≠	▷
&NotCupCap;	&nlt; &NotLess; &nlless;
≠	▷
&ngt; &NotGreater; &ngtr;	&nle; &NotLessEqual; &nleq;

$\geq$ &nge; &NotGreater Equal; &ngeq;	$\lesssim$ &lsim; &LessTilde; &lessim;
$\gtrapprox$ &gsim; &gtrsim; &GreaterTilde;	$\not\lesssim$ &nlsim; &NotLessTilde;
$\ngtrapprox$ &nsgsim; &NotGreaterTilde;	$\lessgtr$ &lg; &lessgtr; &LessGreater;
$\gtrless$ &gl; &gtrless; &GreaterLess;	$\not\lessgtr$ &ntlg; &NotLess Greater;
$\ngtrless$ &ntgl; &NotGreaterLess;	$\prec$ &pr; &Precedes; &prec;
$\succ$ &sc; &Succeeds; &succ;	$\succcurlyeq$ &prcue; &PrecedesSlant Equal; &preccurlyeq;

$\succcurlyeq$  <code>&amp;sccue; &amp;SuccedsSlantEqual; &amp;succcurlyeq;</code>	$\precsim$  <code>&amp;prsim; &amp;precsim; &amp;PrecedesTilde;</code>
$\succsim$  <code>&amp;sccsimeq; &amp;succsim; &amp;SuccedsTilde;</code>	$\not\prec$  <code>&amp;npr; &amp;nprec; &amp;NotPrecedes;</code>
$\npreccurlyeq$  <code>&amp;nsc; &amp;nsucc; &amp;NotSucceds;</code>	$\subset$  <code>&amp;sub; &amp;subset;</code>
$\supset$  <code>&amp;sup; &amp;supset; &amp;Superset;</code>	$\not\subset$  <code>&amp;nsub;</code>
$\nsupset$  <code>&amp;nsup;</code>	$\subseteq$  <code>&amp;sube; &amp;SubsetEqual; &amp;subeteq;</code>
$\supseteq$  <code>&amp;supe; &amp;supseteq; &amp;SupersetEqual;</code>	$\not\subseteq$  <code>&amp;nsube; &amp;nsubeteq; &amp;NotSubsetEqual;</code>

$\not\supseteq$ &nsupe; &nsupseteq; &NotSuperset Equal;	$\subsetneq$ &subne; &subsetneq;
$\supsetneq$ &supne; &supsetneq;	$\cupdot$ &cupdot;
$\uplus$ &uplus; &UnionPlus;	$\sqsubset$ &sqsub; &SquareSubset; &sqsubset;
$\sqsupset$ &sqsup; &Square Superset; &sqsupset;	$\sqsubseteq$ &sqsube; &SquareSubset Equal; &sqsubseteq;
$\sqsupseteq$ &sqsupe; &Square SupersetEqual; &sqsupseteq;	$\sqcap$ &sqcap; &Square Intersection;
$\sqcup$ &sqcup; &SquareUnion;	$\oplus$ &oplus; &CirclePlus;

	
&ominus; &CircleMinus;	&otimes; &CircleTimes;
	
&osol;	&odot; &CircleDot;
	
&ocir; &circledcirc;	&oast; &circledast;
	
&odash; &circleddash;	&plusb; &boxplus;
	
&minusb; &boxminus;	&timesb; &boxtimes;
	
&sdotb; &dotsquare;	&vdash; &RightTee;

$\dashv$	$\top$
$\bot$	$\models$
$\vDash$	$\vdash$
$\Vdash$	$\Vdash$
$\nvDash$	$\nvDash$
$\nVdash$	$\nVDash$

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↙	&vltri; &vartriangleleft; &LeftTriangle;
↗	&vrtri; &vartriangle right; &Right Triangle;
↖	&ltrie; &triangle lefteq; &LeftTriangle Equal;
↗	&rtrie; &triangle righteq; &RightTriangle Equal;
●○	&origof;
○—	&mumap; &multimap;
-+/-	&hercon;
T	&intcal; &intercal;
∨	&veebar;
∨	&barvee;

↳ ↳&angrtvb;	↗ ↗&ltri;
∧ &xwedge; &Wedge; &bigwedge;	∨ &xvee; &Vee; &bigvee;
∩ &xcap; &Intersection; &bigcap;	∪ &xcup; &Union; &bigcup;
◊ &diam; &diamond; &Diamond;	• &sdot;
★ &sstarf; &Star;	✳ &divonx; &divideontimes;
⋈ &bowtie;	⨯ &ltimes;

✖ &rtimes;	✖ &lthree; &leftthreetimes;
✖ &rthree; &rightthreetimes;	≤ &bsime; &backsimeq;
Ɣ &cuvee; &curlyvee;	人 &cuwed; &curlywedge;
⊆ &Sub; &Subset;	⊇ &Sup; &Supset;
∩ &Cap;	∪ &Cup;
pitchfork &fork; &pitchfork;	# &epar;

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&ltdot; &lessdot;	&gtdot; &gtrdot;
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&lt;	&gt;
&leg; &LessEqual Greater; &lesseqgtr;	&gel; &gtreqless; &GreaterEqual Less;
&lt;	&gt;
&cuepr; &curlyeqprec;	&cuesc; &curlyeqsucc;
&not;	&not;
&nprcue; &NotPrecedes SlantEqual;	&nsccue; &NotSucceeds SlantEqual;
&nsqsube; &NotSquare SubsetEqual;	&nsqsupe; &NotSquare SupersetEqual;

$\leqslant$ &lnsim;	$\geqslant$ &gnsim;
$\preccurlyeq$ &prnsim; &precnnsim;	$\succcurlyeq$ &scnnsim; &succnnsim;
$\not\triangleleft$ &nltri; &ntriangleleft; &NotLeftTriangle;	$\not\triangleleft$ &nrtri; &ntriangleright; &NotRight Triangle;
$\not\trianglelefteq$ &nltrie; &ntrianglelefteq; &NotLeft TriangleEqual;	$\not\triangleq$ &nrtrie; &ntriangle righteq; &NotRight TriangleEqual;
$\cdots$ &hellip;	$\dots$ &cddot;
$\therefore$ &utdot;	$\therefore$ &dtdot;

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&disin;	&isinsv;
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&isins;	&isindot;
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&notinvc;	&notinvb;
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&xnis;	&nis;
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&notnivc;	&notnivb;

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&LeftCeiling;

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&RightCeiling;

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&LeftFloor;

&rfloor;  
&RightFloor;

 $\lrcorner$ 

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 $\lrcorner$ 

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⌁	⌂
&profsurf;	&telrec;
⌃	⌄
&target;	&ulcorn; &ulcorner;
⌅	⌆
&urcorn; &urcorner;	&drcorn; &lrcorner;
⌇	⌈
&drcorn; &lrcorner;	&frown; &sfrown;
⌉	⌊
&smile; &ssmile;	&cylcty;
⌋	⌌
&profalar;	&topbot;



&amp;ovbar;



&amp;solbar;



&amp;angzarr;

&lmoust;  
&lmoustache;&rmoust;  
&rmoustache;&tbrk;  
&OverBracket;&bbrk;  
&UnderBracket;

&amp;bbrktbrk;



&amp;OverParenthesis;



&amp;UnderParenthesis;



&amp;OverBrace;



&amp;UnderBrace;



&amp;trpezium;



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&boxh;  
&HorizontalLine;

&amp;boxv;



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 &boxUL;	 &boxvR;
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 &boxvL;	 &boxV1;
 &boxVL;	 &boxHd;

 &boxhD;	 &boxHD;
 &boxHu;	 &boxhU;
 &boxHU;	 &boxvH;
 &boxVh;	 &boxVH;
 &uhblk;	 &lhblk;
 &block;	 &blk14;

	&blk12;
	&blk34;
	&squ; &square; &Square;
	&squf; &squrf; &blacksquare; &FilledVerySmall Square;
	&EmptyVery SmallSquare;
	&rect;
	&marker;
	&fltns;
	&xutri; &bigtriangleup;
	&utrif; &blacktriangle;
	&utri; &triangle;
	&rtrif; &blacktriangleright;

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&triangleright;

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&xdtri;  
&bigtriangledown;

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Square;

&amp;starf; &amp;bigstar;



&amp;star;



&amp;phone;



&amp;female;



&amp;male;

&spades;  
&spadesuit;&clubs;  
&clubsuit;&hearts;  
&heartsuit;&diams;  
&diamondsuit;

♪ ‐sung;	♭ ‐flat;
♮ ‐natur; &natural;	# ‐sharp;
✓ ‐check; &checkmark;	✗ ‐cross;
✠ ‐malt; &maltese;	★ ‐sext;
 ‐Vertical Separator;	( ‐lbbrk;
) ‐rbbrk;	〔 ‐lobrk; ‐LeftDouble Bracket;

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&robrk; &RightDouble Bracket;	&lang; &LeftAngle Bracket; &langle;
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&rang; &RightAngle Bracket; &rangle;	&Lang;
》	〔
&Rang;	&loang;
〕	←
&roang;	&xlarr; &longleft arrow; &LongLeft Arrow;
→	↔
&xrarr; &longrightarrow; &LongRightArrow;	&xharr; &longleftright arrow; &LongLeftRight Arrow;
⟵	⟹
&xlArr; &Longleft arrow; &DoubleLong LeftArrow;	&xrArr; &Longrightarrow; &DoubleLong RightArrow;

↔	→
&xhArr; &Longleft rightarrow; &DoubleLong LeftRightArrow;	&xmap; &longmapsto;
⤵	⤶
&dzigrarr;	&nvlArr;
⤷	⤸
&nvrArr;	&nvHarr;
⤹	⤻
&Map;	&lbar;
⤻	⤻
&rbar; &bkarow;	&lBarr;
⤻	⤻
&rBarr; &dbkarow;	&RBarr; &drbkarow;

→	↑
↗	↑↑
↓	→→
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&nwarhk;	&nearhk;
	
&searhk; &hksearrow;	&swarhk; &hkswarow;
	
&nwnear;	&nesear; &toea;
	
&seswar; &tosa;	&swnwar;
	
&rarrcc;	&cudarrr;
	
&ldca;	&rdca;

 &cudarrl;	 &larrpl;
 &curarrm;	 &cularrp;
 &rarrpl;	 &harrcir;
 &Uarrocir;	 &lurdshar;
 &ldrushar;	 &LeftRightVector;
 &RightUp DownVector;	 &DownLeft RightVector;

 &LeftUp DownVector;	 &LeftVectorBar;
 &RightVectorBar;	 &RightUp VectorBar;
 &RightDown VectorBar;	 &DownLeft VectorBar;
 &DownRight VectorBar;	 &LeftUpVectorBar;
 &LeftDown VectorBar;	 &LeftTeeVector;
 &RightTeeVector;	 &RightUp TeeVector;

$\nwarrow$ <code>&amp;RightDownTeeVector;</code>	$\nearrow$ <code>&amp;DownLeftTeeVector;</code>
$\searrow$ <code>&amp;DownRightTeeVector;</code>	$\uparrow$ <code>&amp;LeftUpTeeVector;</code>
$\downarrow$ <code>&amp;LeftDownTeeVector;</code>	$\Leftarrow$ <code>&amp;lHar;</code>
$\uparrow$ <code>&amp;uHar;</code>	$\Rightarrow$ <code>&amp;rHar;</code>
$\Downarrow$ <code>&amp;dHar;</code>	$\Leftarrow\Rightarrow$ <code>&amp;luruhar;</code>
$\Leftarrow\Rightarrow$ <code>&amp;lrdhar;</code>	$\Leftarrow\Rightarrow$ <code>&amp;ruluhar;</code>

$\Leftarrow$ &rdldhar;	$\Leftarrow$ &lharul;
$\Leftarrow$ &llhard;	$\Rightarrow$ &rharul;
$\Rightarrow$ &lrhard;	$\Downarrow$ &udhar; &Up Equilibrium;
$\Downarrow$ &duhar; &ReverseUp Equilibrium;	$\supseteq$ &RoundImplies;
$\Rightarrow$ &erarr;	$\rightsquigarrow$ &simrarr;
$\Leftarrow$ &larrsim;	$\Rightarrow$ &rarrsim;

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&LeftTriangleBar;	&RightTriangleBar;
❀	♾
&race;	&iinfin;
♾	▫
&infintie;	&nvinfin;
#	♯
&eparsl;	&smparsl;
#	◆
&eqvparsl;	&lozf; &blacklozenge;
:→	/
&RuleDelayed;	&dsol;

&amp;xodot; &amp;bigodot;

&amp;xoplus; &amp;bigoplus;

&amp;xotimes; &amp;bigotimes;

&amp;xuplus; &amp;biguplus;

&amp;xsqcup; &amp;bigsqcup;

&amp;qint; &amp;iiiint;

&amp;fpartint;

&amp;cirfnint;

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	$\neg$ <code>&amp;tritime;</code>
$\sqcup$ <code>&amp;amalg;</code>	$\capdot$ <code>&amp;capdot;</code>
$\sqcup$ <code>&amp;ncup;</code>	$\bar{\cap}$ <code>&amp;ncap;</code>
$\wedge$ <code>&amp;capand;</code>	$\vee$ <code>&amp;cupor;</code>
$\curlywedge$ <code>&amp;cupcap;</code>	$\circ$ <code>&amp;capcup;</code>
$\curlywedge$ <code>&amp;cupbrcap;</code>	$\ominus$ <code>&amp;capbrcup;</code>

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$\equiv$ &equivDD;	$\triangleleft$ &ltcir;
$\triangleright$ &gtcir;	$\triangleright?$ &ltquest;
$\triangleright?$ &gtquest;	$\leqslant$ &les; &LessSlant Equal; &leqslant;
$\geqslant$ &ges; &GreaterSlant Equal; &geqslant;	$\leqdot$ &lesdot;

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&lesseqgtr;

$\wedge\backslash\vee$ &gE1; &gtreqqless;	$\backslash\wedge$ &lsime;
$\backslash\wedge$ &gsime;	$\vee\backslash\wedge$ &lsimg;
$\wedge\backslash\backslash$ &gsiml;	$\backslash\backslash\wedge$ &lgE;
$\backslash\backslash\wedge$ &glE;	$\backslash\backslash\backslash$ &lesges;
$\backslash\backslash\backslash\wedge$ &gesles;	$\backslash\backslash\backslash$ &els; &eqslantless;
$\backslash\backslash\wedge$ &egs; &eqslantgtr;	$\backslash\backslash\cdot$ &elsdot;

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&simgE;	&LessLess;
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&GreaterGreater;	&glj;
✖	▫
&gla;	&ltcc;

▷	◁
&gtcc;	&lescc;
▷	◁
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&lat;	&smte;
»	«
&late;	&bumpE;
⤠	⤠
&pre; &preceq; &PrecedesEqual;	&sce; &succeq; &SuccessesEqual;
⤠	⤠
&prE;	&scE;

$\not\equiv$	$\not\asymp$
$\not\approx$ &prnE; &precneqq;	$\not\approx$ &scnE; &succneqq;
$\approx$ &prap; &precapprox;	$\approx$ &scap; &succapprox;
$\approx$ &prnap; &precnapprox;	$\approx$ &scsnap; &succnapprox;
$\nwarrow$ &Pr;	$\searrow$ &Sc;
$\cdot$ &subdot;	$\cdot$ &supdot;
$\subset_+$ &subplus;	$\supset_+$ &supplus;

$\subset_x$ &submult;	$\supset_x$ &supmult;
$\dot{\subseteq}$ &subedot;	$\dot{\supseteq}$ &supedot;
$\subseteq$ &subE; &subseteqq;	$\supseteq$ &supE; &supseteqq;
$\subseteq$ &subsim;	$\supseteq$ &supsim;
$\not\subseteq$ &subnE; &subsetneqq;	$\not\supseteq$ &supnE; &supsetneqq;
$\subset$ &csub;	$\supset$ &csub;

□ &csube;	□ &csupe;
ᜑ &subsup;	ᜒ &supsub;
ᜓ &subsub;	᜔ &supsup;
᜕ &suphsub;	᜖ &supdsub;
᜗ &forkv;	᜘ &topfork;
᜙ &m1cp;	᜚ &Dashv; &DoubleLeftTee;

⊤	⊥
&Vdashl;	&Barv;
⊜	⊟
&vBar;	&vBarv;
⊠	⊡
&Vbar;	&Not;
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&bNot;	&rnmid;
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&cirmid;	&midcir;
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&topcir;	&nhp;

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$\mathcal{O}$	$\mathcal{P}$
<code>&amp;Oscr;</code>	<code>&amp;Pscr;</code>
$\mathcal{Q}$	$\mathcal{S}$
<code>&amp;Qscr;</code>	<code>&amp;Sscr;</code>
$\mathcal{T}$	$\mathcal{U}$
<code>&amp;Tscr;</code>	<code>&amp;Uscr;</code>
$\mathcal{V}$	$\mathcal{W}$
<code>&amp;Vscr;</code>	<code>&amp;Wscr;</code>
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<code>&amp;Xscr;</code>	<code>&amp;Yscr;</code>

<i>Z</i> &Zscr;	<i>a</i> &ascr;
<i>b</i> &bscr;	<i>c</i> &cscr;
<i>d</i> &dscr;	<i>f</i> &fscr;
<i>h</i> &hscr;	<i>i</i> &iscr;
<i>j</i> &jscr;	<i>k</i> &kscr;
<i>l</i> &lscr;	<i>m</i> &mscr;

<i>n</i> &nscr;	<i>p</i> &pscr;
<i>q</i> &qscr;	<i>r</i> &rscr;
<i>s</i> &sscr;	<i>t</i> &tscr;
<i>u</i> &uscr;	<i>v</i> &vscr;
<i>w</i> &wscr;	<i>x</i> &xscr;
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