



HTML

Living Standard — Last Updated 28 September 2022

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13.5 Named character references

13.5 Named character references §

This table lists the character reference names that are supported by HTML, and the code points to which they refer. It is referenced by the previous sections.

Note

It is intentional, for legacy compatibility, that many code points have multiple character reference names. For example, some appear both with and without the trailing semicolon, or with different capitalizations.

Name	Character(s)	Glyph
Aacute;	U+000C1	À
Aacute	U+000C1	À
aacute;	U+000E1	á
aacute	U+000E1	á
Abreve;	U+00102	Ã
abreve;	U+00103	ã
ac;	U+0223E	߱
acd;	U+0223F	߲
act;	U+0223E U+00333	߱߳
Acirc;	U+000C2	Ã
Acirc	U+000C2	Ã
acirc;	U+000E2	â
acirc;	U+000E2	â
acute;	U+000B4	·
acute	U+000B4	·
Acy;	U+00410	ܵ
acy;	U+00430	ܵ
AElig;	U+000C6	ܶ
AElig	U+000C6	ܶ
aelig;	U+000E6	ܶ
aelig	U+000E6	ܶ
af;	U+02061	ܾ
Afr;	U+1D504	ܿ
afr;	U+1D51E	ܿ
Agrave;	U+000C0	ܰ
Agrave	U+000C0	ܰ
agrave;	U+000E0	ܰ
grave;	U+000E0	ܰ
alefsym;	U+02135	ܺ
aleph;	U+02135	ܺ
Alpha;	U+00391	ܵ
alpha;	U+003B1	ܵ
Amacr;	U+00100	ܰ
amacr;	U+00101	ܰ
amalg;	U+02A3F	ܿ
AMP;	U+00026	ܸ
AMP	U+00026	ܸ
amp;	U+00026	ܸ
amp	U+00026	ܸ
And;	U+02A53	ܰ
and;	U+02227	ܰ
andand;	U+02A55	ܰ
anddd;	U+02A5C	ܰ
andslope;	U+02A58	ܰ
andu;	U+02A5A	ܰ
ang;	U+02220	ܰ
ange;	U+029A4	ܰ
angle;	U+02220	ܰ
angmsd;	U+02221	ܰ
angmsdaa;	U+029A8	ܰ
angmsdab;	U+029A9	ܰ
angmsdac;	U+029AA	ܰ
angmsdad;	U+029AB	ܰ

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Name	Character(s)	Glyph
angmsdag;	U+029AE	ܰ
angmsdah;	U+029AF	ܰ
angrt;	U+0221F	ܰ
angrtvb;	U+022BE	ܰ
angrtvbd;	U+029D0	ܰ
angsph;	U+02222	ܰ
angst;	U+000C5	ܰ
angzarr;	U+0237C	ܰ
Agon;	U+00104	ܵ
aogon;	U+00105	ܵ
AopF;	U+1D538	ܵ
aopf;	U+1D562	ܵ
ap;	U+02248	ܰ
apacir;	U+02A6F	ܰ
apE;	U+02A70	ܰ
ape;	U+0224A	ܰ
apid;	U+0224B	ܰ
apos;	U+00027	ܰ
ApplyFunction;	U+02061	
approx;	U+02248	ܰ
approxeq;	U+022A4	ܰ
Aring;	U+000C5	ܰ
Aring;	U+000C5	ܰ
aring;	U+000E5	ܰ
aring;	U+000E5	ܰ
asym;	U+02248	ܰ
asympeq;	U+0224D	ܰ
Atilde;	U+000C3	ܰ
Atilde;	U+000C3	ܰ
atilde;	U+000E3	ܰ
atilde;	U+000E3	ܰ
Auml;	U+000C4	ܰ
Auml;	U+000C4	ܰ
auml;	U+000E4	ܰ
auml;	U+000E4	ܰ
awconint;	U+02233	ܰ
awint;	U+02A11	ܰ
backcong;	U+0224C	ܰ
backepsilon;	U+003F6	ܰ
backprime;	U+02035	ܰ
backsimeq;	U+0223D	ܰ
backsimeq;	U+022CD	ܰ
Backslash;	U+02216	ܰ
Barv;	U+02AE7	ܰ
barvee;	U+022BD	ܰ
Barwed;	U+02306	ܰ
barwed;	U+02305	ܰ
barwedge;	U+02305	ܰ
bbrk;	U+023B5	ܰ
bbrktbrk;	U+023B6	ܰ
bcong;	U+0224C	ܰ

Name	Character(s)	Glyph
Bcy;	U+00411	ܵ
bcy;	U+00431	ܵ
bdquo;	U+0201E	ܰ
because;	U+02235	ܰ
Because;	U+02235	ܰ
bemptyv;	U+029E0	ܰ
bepsi;	U+003F6	ܵ
berhou;	U+0212C	ܰ
Bernoullis;	U+0212C	ܰ
Beta;	U+00392	ܵ
beta;	U+003B2	ܵ
beth;	U+02136	ܰ
between;	U+0226C	ܰ
Bfr;	U+1D505	ܰ
bfr;	U+1D51F	ܰ
bigcap;	U+022C2	ܰ
bigcirc;	U+025EF	ܰ
bigcup;	U+022C3	ܰ
bigdot;	U+02A00	ܰ
bigoplus;	U+02A01	ܰ
bigotimes;	U+02A02	ܰ
bigscup;	U+02A06	ܰ
bigstar;	U+02605	ܰ
bigtriangledown;	U+025BD	ܰ
bigtriangleup;	U+025B3	ܰ
biguplus;	U+02A04	ܰ
bigvee;	U+02C21	ܰ
bigwedge;	U+022C0	ܰ
bkarow;	U+0290D	ܰ
blacklozenge;	U+029EB	ܰ
blacksquare;	U+025AA	ܰ
blacktriangle;	U+025B4	ܰ
blacktriangledown;	U+025BE	ܰ
blacktriangleleft;	U+025C2	ܰ
blacktriangleright;	U+025B8	ܰ
blank;	U+02423	ܰ
blk12;	U+02592	ܰ
blk14;	U+02591	ܰ
blk34;	U+02593	ܰ
block;	U+02588	ܰ
bne;	U+0003D U+020E5	ܰ
bnequiv;	U+02261 U+020E5	ܰ
bNot;	U+02AED	ܰ
bnot;	U+02310	ܰ
Boop;	U+1D539	ܵ
boop;	U+1D553	ܵ
hot;	U+022A5	ܰ
bottom;	U+022A5	ܰ
howtie;	U+022C8	ܰ
boxbox;	U+029C9	ܰ
boxOL;	U+02557	ܰ
boxOL;	U+02556	ܰ
boxDL;	U+02555	ܰ
boxDL;	U+02510	ܰ

Name	Character(s)	Glyph
cedil	U+000B8	·
Cedula;	U+000B8	·
emptyp;	U+029B2	∅
cent;	U+000A2	¢
cent	U+000A2	¢
CenterDot;	U+000B7	·
centerdot;	U+000B7	·
Cfr;	U+0212D	⌚
cfr;	U+1D520	⌚
Chcy;	U+00427	Ҕ
chcy;	U+00447	Ҕ
check;	U+02713	✓
checkmark;	U+02713	✓
Chi;	U+003A7	Ӯ
chi;	U+003C7	Ӯ
cir;	U+025CB	○
circ;	U+002C6	○
circq;	U+02257	△
circlearrowleft;	U+021BA	○
circlearrowright;	U+021BB	○
circledast;	U+0229B	◎
circledcirc;	U+0229A	◎
circleddash;	U+0229D	◎
CircleDot;	U+02299	○
circledR;	U+000AE	®
circledS;	U+024C8	©
CircleMinus;	U+02296	⊖
CirclePlus;	U+02295	⊕
CircleTimes;	U+02297	⊗
cirE;	U+029C3	○
cire;	U+02257	△
cirmint;	U+02A10	ƒ
cirmid;	U+02AEF	؊
cirsic;	U+029C2	○
ClockwiseContourIntegral;	U+02232	∱
CloseCurlyDoubleQuote;	U+0201D	“
CloseCurlyQuote;	U+02019	”
clubs;	U+02663	♦
clubsuit;	U+02663	♦
Colon;	U+02237	::
colon;	U+0003A	:
Colone;	U+02A74	=
colone;	U+02254	=
coloneq;	U+02254	=
comma;	U+0002C	,
commat;	U+00040	@
comp;	U+02201	℃
compfn;	U+02218	°
complement;	U+02201	℃
complexes;	U+02102	ℂ
cong;	U+02245	≡
congdot;	U+02A6D	≡
Congruent;	U+02261	≡
Conint;	U+0222F	∮
conint;	U+0222E	∮
ContourIntegral;	U+0222E	∮
Copf;	U+02102	ℂ
copf;	U+1D554	ℂ
coprod;	U+02210	⅀
Coproduct;	U+02210	⅀
COPY;	U+000A9	©
COPY	U+000A9	©
copy;	U+000A9	©
copy	U+000A9	©
copyr;	U+02117	®
copyrlcorner;	U+02233	ƒ
crarr;	U+021B5	↵
Cross;	U+02A2F	✗
cross;	U+02717	✗
Cscr;	U+1D49E	ܶ
csqr;	U+1D4B8	ܶ
csqb;	U+02ACF	ܶ
csube;	U+02AD1	ܶ
csup;	U+02AD0	ܶ
csupe;	U+02AD2	ܶ
ctdot;	U+022EF	…
cuadarl;	U+02938	⤵
cuadarr;	U+02935	⤷
cuepr;	U+022DE	⤸
quesc;	U+022DF	⤹
cularr;	U+021B6	⤵
cularrp;	U+0293D	⤵
Cup;	U+022D3	ܶ
cup;	U+0222A	ܶ
cupbrcap;	U+02A48	ܶ
CupCap;	U+0224D	ܶ
cupcap;	U+02A46	ܶ
cupcup;	U+02AA4	ܶ

Name	Character(s)	Gly
cupdot;	U+0228D	⌚
cupor;	U+02A45	⌚
cups;	U+022AA U+0FE00	⌚
currarr;	U+021B7	↷
curlyeqprec;	U+022DE	≔
curlyeqsucc;	U+022DF	≕
curlyvee;	U+022CE	Ѷ
curlywedge;	U+022CF	ࡷ
curren;	U+000A4	ؐ
curren	U+000A4	ؐ
curarrowleft;	U+021B6	↶
curarrowright;	U+021B7	↷
cuvee;	U+022CE	Ѷ
cuwed;	U+022CF	ࡷ
cwconint;	U+02232	ࡹ
cwint;	U+02231	ࡻ
clycty;	U+0232D	ࡸ
Dagger;	U+02021	‡
dagger;	U+02020	†
daleth;	U+02138	ࠧ
Darr;	U+021A1	ࡲ
darr;	U+021D3	ࡳ
darr;	U+02193	ࡳ
dash;	U+02010	۔
Dashv;	U+02AE4	܂
dashv;	U+022A3	܂
dbkarow;	U+0290F	܂
dblac;	U+002DD	܂
Dcaron;	U+0010E	܂
dcaron;	U+0010F	܂
Dcy;	U+00414	܂
dcy;	U+00434	܂
DD;	U+02145	܂
dd;	U+02146	܂
ddagger;	U+02021	‡
ddarr;	U+021CA	ࡲ
Dbotrahd;	U+02911	܂
ddotseq;	U+02A77	܂
deg;	U+000B0	܂
deg	U+000B0	܂
Del;	U+02207	܂
Delta;	U+00394	܂
delta;	U+003B4	܂
demptyt;	U+029B1	܂
dfisht;	U+0297F	܂
Dfr;	U+1D507	܂
dfr;	U+1D521	܂
dhar;	U+02965	܂
dharl;	U+021C3	܂
dharr;	U+021C2	܂
DiacriticalAcute;	U+000B4	܂
DiacriticalDot;	U+002D9	܂
DiacriticalDoubleAcute;	U+002DD	܂
DiacriticalGrave;	U+00060	܂
DiacriticalTilde;	U+002DC	܂
diam;	U+022C4	܂
Diamond;	U+022C4	܂
diamond;	U+022C4	܂
diamondsuit;	U+02666	܂
diams;	U+02666	܂
die;	U+000A8	܂
DifferentialD;	U+02146	܂
digamma;	U+003DD	܂
disin;	U+022F2	܂
div;	U+000F7	܂
divide;	U+000F7	܂
divide;	U+000F7	܂
divideontimes;	U+022C7	܂
divonx;	U+022C7	܂
Djcy;	U+00402	܂
djcy;	U+00452	܂
dicorn;	U+0231E	܂
dicrop;	U+0230D	܂
dollar;	U+00024	܂
Dopf;	U+1D53B	܂
dopf;	U+1D555	܂
Dot;	U+000A8	܂
dot;	U+002D9	܂
DotDot;	U+020DC	܂
doteq;	U+02250	܂
doteqdot;	U+02251	܂
DotEqual;	U+02250	܂
dotminus;	U+02238	܂
dotplus;	U+02214	܂
dotsquare;	U+022A1	܂
doublebarwedge;	U+0230E	܂
DoubleContourIntegral;	U+0222F	܂

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Name	Character(s)	Glyph
DoubleDot;	U+000A8	·
DoubleDownArrow;	U+021D3	↓
DoubleLeftArrow;	U+021D0	⬅
DoubleLeftRightArrow;	U+021D4	↔
DoubleLeftTee;	U+02AE4	≡
DoubleLongLeftArrow;	U+027F8	⟵
DoubleLongLeftRightArrow;	U+027FA	↔↔
DoubleLongRightArrow;	U+027F9	→→
DoubleRightArrow;	U+021D2	⇒
DoubleRightTee;	U+022A8	≡
DoubleUpArrow;	U+021D1	↑
DoubleUpDownArrow;	U+021D5	↑↓
DoubleVerticalBar;	U+02225	
DownArrow;	U+02193	↓
Downarrow;	U+021D3	↓
downarrow;	U+02193	↓
DownArrowBar;	U+02913	↓
DownArrowUpArrow;	U+021F5	↑↓
DownBrevet;	U+00311	⌚
downdownarrows;	U+021CA	⇊
downharpoonleft;	U+021C3	↙
downharpoonright;	U+021C2	↘
DownLeftRightVector;	U+02950	→←
DownLeftVector;	U+0295E	⤠
DownLeftVector;	U+021BD	⤠
DownLeftVectorBar;	U+02956	⤠
DownRightTeeVector;	U+0295F	⤠
DownRightVector;	U+021C1	⤠
DownRightVectorBar;	U+02957	⤠
DownTee;	U+022A4	T
DownTeeArrow;	U+021A7	I
drbkarow;	U+02910	⤠⤠
drcorn;	U+0231F	J
drcrop;	U+0230C	⤠
Dscr;	U+1D49F	ڏ
dscr;	U+1D4B9	ڏ
DScy;	U+00405	S
dscy;	U+00455	s
dsol;	U+029F6	ڇ
Dstrokr;	U+00110	ڏ
dstrok;	U+00111	ڏ
dtdot;	U+022F1	ڻ
dtri;	U+025BF	ڻ
dtrif;	U+025BE	ڻ
duarr;	U+021F5	⤠
duhar;	U+0296E	⤠
dwangle;	U+029A6	⤠
DZcy;	U+0040F	ڦ
dczy;	U+0045F	ڻ
dzigrarr;	U+027FF	⤠⤠
Eacute;	U+000C9	Ѐ
Eacute;	U+000C9	Ѐ
éacute;	U+000E9	é
éacute;	U+000E9	é
easter;	U+0246E	ܲ
ecaron;	U+0011A	ܲ
ecaron;	U+0011B	ܲ
ecir;	U+02256	=
Ecirc;	U+000CA	ܲ
Ecirc;	U+000CA	ܲ
ecirc;	U+000EA	ܲ
ecirc;	U+000EA	ܲ
ecolon;	U+02255	=::
Ecy;	U+0042D	ܲ
ecy;	U+0044D	ܲ
edDot;	U+02A77	ܲܲ
Edot;	U+00116	ܲ
ebot;	U+02251	ܲܲ
edot;	U+00117	ܲ
ee;	U+02147	ܲ
eFoot;	U+02252	ܲܲ
Efr;	U+1D508	ܲ
efr;	U+1D522	ܲ
eg;	U+02A9A	ܲ
Egrave;	U+000C8	ܲ
Egrave;	U+000C8	ܲ
egrave;	U+000E8	ܲ
egrave;	U+000E8	ܲ
ëgs;	U+02A96	ܲ
ëgsdot;	U+02A98	ܲܲ
el;	U+02A99	ܲܲ
Element;	U+02208	ܲ
elinsters;	U+023E7	ܲ
ell;	U+02113	ܲ
els;	U+02A95	ܲܲ
elsdot;	U+02A97	ܲܲ

Name	Character(s)	Glyph
frac14;	U+0008C	¼
frac15;	U+02155	½
frac16;	U+02159	¾
frac18;	U+0215B	⅓
frac23;	U+02154	⅔
frac25;	U+02156	⅕
frac34;	U+000BE	⅔
frac34;	U+000BE	⅔
frac35;	U+02157	⅖
frac38;	U+0215C	⅗
frac45;	U+02158	⅘
frac56;	U+0215A	⅚
frac58;	U+0215D	⅛
frac78;	U+0215E	⅜
frasl;	U+02044	/
frown;	U+02322	¬
Fscr;	U+02131	ƒ
Fscr;	U+1D4BB	ƒ
gacute;	U+001F5	gó
Gamma;	U+00393	Γ
gamma;	U+003B3	γ
Gammad;	U+003DC	Ϝ
gammad;	U+003DD	Ϝ
gap;	U+02A86	gap
Gbreve;	U+0011E	ѓ
gbreve;	U+0011F	ѓ
Gcedil;	U+00122	ѓ
Gcirc;	U+0011C	Ѓ
gcirc;	U+0011D	Ѓ
Gcy;	U+00413	Ѓ
gcy;	U+00433	Ѓ
Gdot;	U+00120	Ѓ
gdot;	U+00121	ѓ
gE;	U+02267	≥
ge;	U+02265	≥
gel;	U+02A8C	≥
gel;	U+022DB	≥
geq;	U+02265	≥
geqq;	U+02267	≥
gesqslant;	U+02A7E	≥
ges;	U+02A7E	≥
gescc;	U+02AA9	▷
gesdot;	U+02A80	▷
gesdoto;	U+02A82	▷
gesdotol;	U+02A64	▷
gesl;	U+022DB U+0FE00	▷
gesles;	U+02A94	▷
Gfr;	U+1D50A	ѓ
gfr;	U+1D524	ѓ
Gg;	U+022D9	»»»
gg;	U+0226B	»»
ggg;	U+022D9	»»»
gimel;	U+02137	ג
Gjcy;	U+00403	՞
gjcy;	U+00453	՞
gl;	U+02277	Ն
bla;	U+02AA5	Յ
glE;	U+02A92	Յ
glj;	U+02AA4	Յ
gnap;	U+02A8A	՞
gnapprox;	U+02ABA	՞
gnE;	U+02269	՞
gne;	U+02A88	՞
gneq;	U+02A88	՞
gneq;	U+02269	՞
gnsim;	U+022E7	՞
Gopf;	U+1D53E	՞
gopf;	U+1D558	՞
grave;	U+00060	՝
GreaterEqual;	U+02265	Ն
GreaterEqualless;	U+022DB	Ն
GreaterFullEqual;	U+02267	Ն
GreaterGreater;	U+02AA2	Յ
GreaterLess;	U+02277	Յ
GreaterSlantEqual;	U+02A7E	Յ
GreaterTilde;	U+02273	Ն
Gscr;	U+1D4A2	՞
gscr;	U+0210A	՞
gsim;	U+02273	՞
gsime;	U+02A8E	՞
gsiml;	U+02A90	՞
GT;	U+0003E	>
GT	U+0003E	>
Gt;	U+0226B	>
gt;	U+0003E	>
gt;	U+0003E	>
gtcc;	U+02AA7	▷
gtcir;	U+02A7A	▷

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Name	Character(s)	Glyph
gdot;	U+022D7	➤
gtlpar;	U+02995	﴿
gquest;	U+02A7C	﴿
grapprox;	U+02A86	≈
grarr;	U+02978	⤵
grdot;	U+022D7	⤵
gtreless;	U+022DB	⤵
gtreqless;	U+02A8C	⤵
grtrs;	U+02277	⤵
grtsim;	U+02273	⤵
gvtnreqq;	U+02269 U+0FE00	⤵
gvnE;	U+02269 U+0FE00	⤵
Hacek;	U+002C7	ˇ
hairsp;	U+0200A	ˇ
half;	U+000BD	½
hamilt;	U+0210B	۾
HARDcy;	U+0042A	܀
hardcy;	U+0044A	܀
hArr;	U+021D4	↔
harr;	U+02194	↔
harrcir;	U+02948	⤵
harrw;	U+021AD	⤵
Hat;	U+0005E	‸
hbar;	U+0210F	ܼ
Hcirc;	U+00124	ܾ
hcirc;	U+00125	ܶ
hearts;	U+02665	♥
heartsuit;	U+02665	♥
hellip;	U+02026	...
hercon;	U+022B9	ܹ
Hfr;	U+0210C	ܹ
hfr;	U+10525	ܹ
HilbertSpace;	U+0210B	ܹ
hksarow;	U+02925	ܻ
hksarow;	U+02926	ܻ
hoarr;	U+021FF	⤵
hambht;	U+0223B	ܹ
hookleftarrow;	U+021A9	⤵
hookrightarrow;	U+021AA	⤵
Hopf;	U+0210D	ܺ
hopf;	U+10559	ܺ
horbar;	U+02015	—
HorizontalLine;	U+02500	—
Hscr;	U+0210B	ܹ
hscre;	U+1D4BD	ܶ
hslash;	U+0210F	ܼ
Hstrok;	U+00126	ܺ
hstrok;	U+00127	ܺ
HumpDownHump;	U+0224E	ܺ
HumpEqual;	U+0224F	ܺ
hybull;	U+02043	•
hyphen;	U+02010	-
Iacute;	U+000CD	ܴ
Iacute;	U+000CD	ܴ
Iacute;	U+000ED	ܴ
Iacute;	U+000ED	ܴ
ic;	U+02063	ܴ
Icirc;	U+000CE	ܵ
Icirc;	U+000CE	ܵ
Icirc;	U+000EE	ܵ
Icirc;	U+000EE	ܵ
Icy;	U+00418	ܵ
icy;	U+00438	ܵ
Idot;	U+00130	ܴ
Iffy;	U+00415	ܵ
iecy;	U+00435	ܵ
lexcl;	U+000A1	ܴ
hexcl;	U+000A1	ܴ
iff;	U+021D4	↔
If;	U+02111	ܻ
ifr;	U+10526	ܺ
Igrave;	U+000CC	ܴ
Igrave;	U+000EC	ܴ
igrave;	U+000EC	ܴ
igrave;	U+000EC	ܴ
ii;	U+02148	ܶ
iiint;	U+02A0C	ܶ
iiint;	U+0222D	ܶ
iiinfin;	U+029DC	ܶ
iiota;	U+02129	ܴ
Ttllig;	U+00132	ܺ
ijlig;	U+00133	ܶ
ie;	U+02111	ܻ
Imacr;	U+0012A	ܵ
imacr;	U+0012B	ܵ
image;	U+02111	ܻ

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Name	Character(s)	Glyph
imajpart;	U+02111	ܵ
imath;	U+00131	ܴ
imof;	U+022B7	ܶ
imped;	U+001B5	ܶ
Implies;	U+021D2	ܶ
in;	U+02208	ܶ
incare;	U+02105	ܶ
infin;	U+0221E	ܶ
infintie;	U+029DD	ܶ
inodot;	U+00131	ܴ
Intr;	U+0222C	ܶ
int;	U+0222B	ܶ
intcal;	U+022BA	ܶ
integers;	U+02124	ܶ
Integral;	U+022B8	ܶ
intercal;	U+022BA	ܶ
Intersection;	U+022C2	ܶ
intlarhk;	U+02A17	ܶ
intprod;	U+02A3C	ܶ
InvisibleComma;	U+02063	ܶ
InvisibleTimes;	U+02062	ܶ
Io cy;	U+00401	ܶ
io cy;	U+00451	ܶ
Iogon;	U+0012E	ܴ
Iopf;	U+10540	ܶ
iopf;	U+1056A	ܶ
Iota;	U+00399	ܴ
iota;	U+003B9	ܶ
iprod;	U+02A3C	ܶ
iquest;	U+000BF	ܶ
isuest;	U+0008F	ܶ
isinf;	U+022F9	ܶ
isins;	U+022F4	ܶ
isinsv;	U+022F3	ܶ
isinv;	U+02208	ܶ
it;	U+02062	ܶ
Itilde;	U+00128	ܶ
itilde;	U+00129	ܶ
Iukcy;	U+00406	ܴ
iukcy;	U+00456	ܶ
Iuml;	U+000CF	ܶ
iuml;	U+000EF	ܶ
iuml;	U+000EF	ܶ
Jcirc;	U+00134	ܶ
jcirc;	U+00135	ܶ
Jcy;	U+00419	ܶ
jcy;	U+00439	ܶ
Jfr;	U+1050D	ܶ
jfr;	U+1D527	ܶ
Jmath;	U+00237	ܶ
Jopf;	U+10541	ܶ
jopf;	U+1056B	ܶ
Jscr;	U+1D4A5	ܶ
jscr;	U+1D4BF	ܶ
Jsercy;	U+00408	ܶ
jsercy;	U+00458	ܶ
Jukcy;	U+00404	ܶ
jukcy;	U+00454	ܶ
Kappa;	U+0039A	ܶ
kappa;	U+003BA	ܶ
kappav;	U+003F0	ܶ
Kcedil;	U+00136	ܶ
kcedil;	U+00137	ܶ
Kcy;	U+0041A	ܶ
kcy;	U+0043A	ܶ
Kfr;	U+1050E	ܶ
kfr;	U+10528	ܶ
kgreen;	U+00138	ܶ
KHcy;	U+00425	ܶ
khcy;	U+00445	ܶ
KJcy;	U+0040C	ܶ
kjcy;	U+0045C	ܶ
Kopf;	U+10542	ܶ
kopf;	U+1D55C	ܶ
Kscr;	U+1D4A6	ܶ
kscr;	U+1D4C0	ܶ
laarr;	U+021DA	ܶ
Lacute;	U+00139	ܶ
lacute;	U+0013A	ܶ
laemptyv;	U+029B4	ܶ
lagran;	U+02112	ܶ
Lambda;	U+0039B	ܶ

Name	Character(s)	Glyph
leq;	U+02266	≤
leqslant;	U+02A7D	≤
les;	U+02A7D	≤
lesscc;	U+02AA8	≤
lesdot;	U+02A7F	≤
lesdoto;	U+02A81	≤
lesdotor;	U+02A83	≤
lesg;	U+022DA U+0FE00	≤
lesges;	U+02A93	≤
lessapprox;	U+02A85	≤
lessdot;	U+022D6	≤
lesseqgtr;	U+022DA	≤
lesseqgr;	U+02A8B	≤
LessEqualGreater;	U+022DA	≤
LessFullEqual;	U+02266	≤
LessGreater;	U+02276	≤
lessgtr;	U+02276	≤
LessLess;	U+02A1	≤
lessim;	U+02272	≤
LessSlantEqual;	U+02A7D	≤
LessTilde;	U+02272	≤
lfisht;	U+0297C	↷
lfloor;	U+0230A	⌊
lfr;	U+1D50F	♀
lfr;	U+1D529	↑
lg;	U+02276	≤
lgE;	U+02A91	₩
lHar;	U+02962	₩
lhard;	U+021BD	⤵
lharu;	U+021BC	⤵
lharul;	U+0296A	⤵
lhblk;	U+02584	■
lIcy;	U+00409	ԡ
lIcy;	U+00459	ԡ
lI;	U+022D8	⋘
lI;	U+0226A	⋘
lIarr;	U+021C7	⤵
lIcorner;	U+0231E	⤵
lIleftarrow;	U+021DA	⤵
lIhard;	U+0296B	⤵
lItri;	U+025FA	⤵
lIdot;	U+0013F	⤵
lIdot;	U+00140	⤵
lIsout;	U+02380	⤵
lIsmoustache;	U+02380	⤵
lnap;	U+02A69	₩
lnapprox;	U+02A89	₩
lnE;	U+02268	₩
lne;	U+02A87	₩
lneq;	U+02A87	₩
lneqq;	U+02268	₩
lnsim;	U+022E6	₩
loanq;	U+027EC	[
loar;	U+021FD	←
lobrk;	U+027E6	[
LongLeftArrow;	U+027F5	—
LongLeftarrow;	U+027F8	⤵
longleftarrow;	U+027F5	⤵
LongLeftRightArrow;	U+027F7	⤵
Longleftrightarrow;	U+027F7	⤵
longleftrightharrow;	U+027F7	⤵
longmapsto;	U+027FC	⤵
LongRightArrow;	U+027F6	→
Longrightarrow;	U+027F9	→
longrightarrow;	U+027F6	→
looparrowleft;	U+021AB	⤵
looparrowright;	U+021AC	⤵
loparr;	U+02985	{
Lopf;	U+1D543	Ⓛ
lopf;	U+1D55D	Ⓛ
loplus;	U+02A2D	⊕
lotimes;	U+02A34	⊗
lowast;	U+02217	*
lowerbar;	U+0005F	—
LowerLeftArrow;	U+02199	↙
LowerRightArrow;	U+02198	↘
loz;	U+025CA	◊
lozeng;	U+025CA	◊
lozf;	U+029EB	◊
lpar;	U+00028	(
lpartt;	U+02993	⤵
lrae;	U+021C6	⤵
lIcorner;	U+0231F	⤵
lIhar;	U+021CB	⤵
lIhard;	U+0296D	⤵
lrm;	U+0200E	

Name	Character(s)	Glyph
lscr;	U+02112	՚
lscr;	U+1D4C1	՚
lsh;	U+021B0	՚
lsh;	U+021B0	՚
lsim;	U+02272	՚
lsime;	U+02A9D	՚
lsimg;	U+02A8F	՚
lsqb;	U+0005B	[
lsquo;	U+02018	‘
lsquor;	U+0201A	’
lstrom;	U+00141	՚
lstrom;	U+00142	՚
LT;	U+0003C	<
LT;	U+0003C	<
lt;	U+0226A	≪
lt;	U+0003C	<
lt;	U+0003C	<
ltcc;	U+02AA6	▫
ltcir;	U+02A79	▫
ltdot;	U+022D6	▫
lthree;	U+022CB	՚
ltimes;	U+022C9	×
ltlarr;	U+02976	↶
lquest;	U+02A7B	՞
ltri;	U+025C3	՞
ltrie;	U+022B4	՞
ltrif;	U+025C2	՞
ltrPar;	U+02996	՞
lurdshar;	U+029A4	՞
luruhar;	U+02966	՞
lvertneq;	U+02268 U+0FE00	՞
lven;	U+02268 U+0FE00	՞
maccr;	U+000AF	—
macr;	U+000AF	—
male;	U+02642	♂
malt;	U+02720	✖
maltese;	U+02720	✖
mapstoup;	U+021A5	↑
marker;	U+025AE	■
mcomma;	U+02A29	〽
Mcy;	U+0041C	Ⓜ
mcy;	U+0043C	Ⓜ
mdash;	U+02014	—
mdot;	U+0223A	·
measuredangle;	U+02221	⦶
MediumSpace;	U+0205F	
Mellinrf;	U+02133	〽
Mfr;	U+1D510	Ⓜ
mfr;	U+1D52A	Ⓜ
mho;	U+02127	օ
micro;	U+000B5	μ
micro;	U+000B5	μ
mid;	U+02223	
midast;	U+0002A	▪
midcir;	U+02AFO	՞
middot;	U+000B7	•
middot;	U+000B7	•
minus;	U+02212	—
minusb;	U+0229F	▬
minusd;	U+02238	▬
minusdu;	U+02A2A	▬
MinusPlus;	U+02213	▬
mIcp;	U+02ADB	ϣ
mldr;	U+02026	...
mnpplus;	U+02213	〽
models;	U+022A7	〽
Mapf;	U+1D544	Ⓜ
mopf;	U+1D55E	Ⓜ
mp;	U+02213	〽
Mscr;	U+02133	〽
mscr;	U+1D4C2	〽
mstpos;	U+0223E	〽
Mu;	U+0259C	Ⓜ
mu;	U+003BC	μ
multimap;	U+022B8	↝
numap;	U+022B8	↝
nabla;	U+02207	∇
Nacute;	U+00143	ጀ
nacute;	U+00144	ጀ
nang;	U+02220 U+020D2	ጀ
nap;	U+02249	՚
napE;	U+02A70 U+00338	՚
napid;	U+0224B U+00338	՚

Name	Character(s)	Glyph
napos;	U+00149	՚
napprox;	U+02249	՚
natur;	U+0266E	՚
natural;	U+0266E	՚
naturals;	U+02115	՚
nbspc;	U+000A0	
nump;	U+0224E U+00338	՚
nbump;	U+0224F U+00338	՚
ncap;	U+02A43	՚
Ncaron;	U+00147	ጀ
ncaron;	U+00148	ጀ
Ncedil;	U+00145	ጀ
ncedil;	U+00146	ጀ
ncong;	U+02247	՚
ncongdot;	U+02A6D U+00338	՚
ncup;	U+02A42	՚
Ncy;	U+0041D	՚
ncy;	U+0043D	՚
ndash;	U+02013	—
ne;	U+02260	՞
nearhk;	U+02924	՚
neArr;	U+021D7	՚
nearr;	U+02197	՚
nearrow;	U+02197	՚
nedot;	U+02250 U+00338	՚
NegativeMediumSpace;	U+0200B	
NegativeThickSpace;	U+0200B	
NegativeThinSpace;	U+0200B	
NegativeVeryThinSpace;	U+0200B	
nequiv;	U+02262	՚
nesear;	U+02928	՚
nesim;	U+02242 U+00338	՚
NestedGreaterGreater;	U+0226B	⋙
NestedLessLess;	U+0226A	⋘
Newline;	U+0000A	՞
newist;	U+02204	՚
nextists;	U+02204	՚
Nfr;	U+1D511	՚
nfr;	U+1D52B	՚
ngE;	U+02267 U+00338	՚
nge;	U+02271	՚
ngeq;	U+02271	՚
ngeqq;	U+02267 U+00338	՚
ngeslant;	U+02A7E U+00338	՚
nges;	U+02A7E U+00338	՚
n6g;	U+022D9 U+00338	՚
ngsim;	U+02275	՚
nGt;	U+0226B U+020D2	՚
ngt;	U+0226F	՚
ngtr;	U+0226F	՚
nGtv;	U+0226B U+00338	՚
nhArr;	U+021CE	՚
nharr;	U+021AE	՚
nhpar;	U+02AF2	՚
nI;	U+0220B	՚
nIs;	U+022FC	՚
nIsd;	U+022FA	՚
nIv;	U+0220B	՚
Njcy;	U+0040A	՚
njcy;	U+0045A	՚
nIArr;	U+021CD	՚
nIarr;	U+0219A	՚
nIdr;	U+02025	..
nIe;	U+02266 U+00338	՚
nIe;	U+02270	՚
nLeftarrow;	U+021CD	՚
nLeftarrow;	U+0219A	՚
nLeftrightarrow;	U+021CE	՚
nLeftrightarrow;	U+021AE	՚
nIeq;	U+02270	՚
nIeqq;	U+02266 U+00338	՚
nIeqslant;	U+02A7D U+00338	՚
nIes;	U+02A7D U+00338	՚
nIless;	U+0226E	՚
nIlli;	U+022D8 U+00338	՚
nIsim;	U+02274	՚
nIt;	U+0226A U+020D2	՚
nItr;	U+0226E	՚
nItric;	U+022EA	՚
nItric;	U+022EC	՚
nItriv;	U+0226A U+00338	՚
nItriv;	U+02274	՚
nMid;	U+02224	՚
NoBreak;	U+02060	
NonBreakingSpace;	U+000A0	
NoF;	U+02115	՚
nopf;	U+1D55F	՚
Not;	U+02AEC	՚

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Name	Character(s)	Glyph
not;	U+000AC	¬
not	U+000AC	¬
NotCongruent;	U+02262	⊍
NotCupCap;	U+0226D	⊏
NotDoubleVerticalBar;	U+02226	⊑
NotElement;	U+02209	⊏
NotEqual;	U+02260	⊑
NotEqualTilde;	U+02242 U+00338	⊒
NotExists;	U+02204	⊐
NotGreater;	U+0226F	⊏
NotGreaterEqual;	U+02271	⊒
NotGreaterFullEqual;	U+02267 U+00338	⊑
NotGreaterGreater;	U+0226B U+00338	⊏
NotGreaterLess;	U+02279	⊐
NotGreaterSlantEqual;	U+02A7E U+00338	⊒
NotGreaterTilde;	U+02275	⊑
NotHumpDownHump;	U+0224E U+00338	⊒
NotHumpEqual;	U+0224F U+00338	⊑
notin;	U+02209	⊏
notinindot;	U+022F5 U+00338	⊑
notininE;	U+022F9 U+00338	⊑
notiniva;	U+02209	⊏
notinvb;	U+022F7	⊏
notinvc;	U+022F6	⊏
NotLeftTriangle;	U+022EA	⊏
NotLeftTriangleBar;	U+029CF U+00338	⊏
NotLeftTriangleEqual;	U+022EC	⊑
Notless;	U+0228E	⊏
NotlessEqual;	U+02270	⊑
NotlessGreater;	U+02278	⊒
NotlessLess;	U+0228A U+00338	⊏
NotlessThanEqual;	U+0247D U+00338	⊑
NotlessTilde;	U+02274	⊑
NotNestedGreaterGreater;	U+02AA2 U+00338	⊒
NotNestedLessLess;	U+02AA1 U+00338	⊏
notin;	U+0220C	⊑
notiniva;	U+0220C	⊑
notinivb;	U+022FE	⊑
notinvc;	U+022FD	⊑
NotPrecedes;	U+02280	⊏
NotPrecedesEqual;	U+02AAF U+00338	⊑
NotPrecedesSlantEqual;	U+022E0	⊑
NotReverseElement;	U+0220C	⊑
NotRightTriangle;	U+022EB	⊏
NotRightTriangleBar;	U+029DD U+00338	⊑
NotRightTriangleEqual;	U+022ED	⊑
NotSquareSubset;	U+0228F U+00338	⊏
NotSquareSubsetEqual;	U+022E2	⊑
NotSquareSuperset;	U+02290 U+00338	⊏
NotSquareSupersetEqual;	U+022E3	⊑
NotSubset;	U+02282 U+002D2	⊑
NotSubsetEqual;	U+02288	⊑
NotSucceeds;	U+02281	⊏
NotSucceedsEqual;	U+02AB0 U+00338	⊑
NotSucceedsSlantEqual;	U+022E1	⊏
NotSucceedsTilde;	U+0227F U+00338	⊑
NotSuperset;	U+02283 U+002D2	⊏
NotSupersetEqual;	U+02289	⊑
NotTilde;	U+02241	⊏
NotTildeEqual;	U+02244	⊑
NotTildeFullEqual;	U+02247	⊑
NotTildeTilde;	U+02249	⊒
NotVerticalBar;	U+02224	⊑
npar;	U+02226	⊑
nparallel;	U+02226	⊑
nparls;	U+02AFD U+020E5	⊑
npart;	U+02202 U+00338	⊑
nplint;	U+02A14	⊑
npr;	U+02280	⊏
nprcue;	U+022E0	⊏
npre;	U+02AAF U+00338	⊑
nprec;	U+02280	⊏
npreceq;	U+02AAF U+00338	⊑
nraArr;	U+021CF	⊑
nraArr;	U+0219B	⊑
nraarrc;	U+02933 U+00338	⊑
nraarrw;	U+0219D U+00338	⊑
nrightarrow;	U+021CF	⊑
nrightarrow;	U+0219B	⊑
nrttri;	U+022EB	⊑
nrttrie;	U+022ED	⊑
nsc;	U+02281	⊏
nscue;	U+022E1	⊏
nsc;	U+02AB0 U+00338	⊑
nscr;	U+1D4A9	⊑
nscr;	U+1D4C3	⊑

Name	Character(s)	Glyph
nsim;	U+02241	⊒
nsime;	U+02244	⊑
nsimeq;	U+02244	⊑
nsmid;	U+02224	⊑
nspar;	U+02226	⊑
nsqsube;	U+022E2	⊑
nsqsupe;	U+022E3	⊑
nsub;	U+02284	⊑
nsube;	U+02AC5 U+00338	⊑
nsube;	U+02288	⊑
nssubset;	U+02282 U+020D2	⊑
nssubseteq;	U+02288	⊑
nsbsupset;	U+02AC5 U+00338	⊑
nsbsupseteq;	U+02288	⊑
nsupset;	U+02289	⊑
nsupseteq;	U+02AC6 U+00338	⊑
nsupE;	U+02AC8 U+00338	⊑
nsupe;	U+02289	⊑
nsupset;	U+02283 U+020D2	⊑
nsupseteq;	U+02289	⊑
nsupseteqq;	U+02AC6 U+00338	⊑
ntgl;	U+02279	⊑
Ntilde;	U+000D1	ñ
Ntilde;	U+000D1	ñ
Ntilde;	U+000F1	ñ
Ntilde;	U+000F1	ñ
ntlg;	U+02278	ñ
ntriangleleft;	U+022EA	▫
ntrianglelefteq;	U+022EC	▫
ntriangleright;	U+022EB	▫
ntrianglerighteq;	U+022ED	▫
Nu;	U+0039D	N
nu;	U+003BD	v
num;	U+00023	#
numero;	U+02116	№
numsp;	U+02007	
nvap;	U+0224D U+020D2	⊑
nvDash;	U+022AF	⊏
nvDash;	U+022AE	⊏
nvDash;	U+022AD	⊏
nvDash;	U+022AC	⊏
nvge;	U+02265 U+020D2	⊑
nvgt;	U+0003E U+020D2	>
nvHarr;	U+02904	↔
nvInfin;	U+029DE	▫
nvlArr;	U+022902	↔
nvlle;	U+02264 U+020D2	⊑
nvllt;	U+0003C U+020D2	⊏
nvltrie;	U+02284 U+020D2	⊑
nvrArr;	U+02903	⇒
nvrtrie;	U+02285 U+020D2	⊑
nvsim;	U+0223C U+020D2	⊑
nwarhk;	U+02923	ȝ
nwaArr;	U+021D6	ȝ
nwaarr;	U+02196	ȝ
nwaarrow;	U+02196	ȝ
nwear;	U+02927	ȝ
Oacute;	U+000D3	ó
Oacute;	U+000D3	ó
oacute;	U+000F3	ó
oacute;	U+000F3	ó
oast;	U+0229B	ó
ocir;	U+0229A	ó
Ocirc;	U+000D4	ó
Ocirc;	U+000D4	ó
ocirc;	U+000F4	ó
ocirc;	U+000F4	ó
Ocy;	U+0041E	ó
Ocy;	U+0043E	ó
odash;	U+0229D	ø
odblac;	U+00150	ø
odblac;	U+00151	ø
odiv;	U+02A38	ø
odot;	U+02299	ø
odsold;	U+029BC	ø
OElig;	U+00152	œ
oeilig;	U+00153	œ
ofcir;	U+029BF	œ
Ofr;	U+1D512	œ
ofr;	U+1D52C	œ
ogon;	U+002DB	œ
Ograve;	U+000D2	ö
Ograve;	U+000D2	ö
ograve;	U+000F2	ö
ograve;	U+000F2	ö
ogt;	U+029C1	ö
ohbar;	U+029B5	ö
ohm;	U+003A9	ö

Name	Character(s)	Glyph
oint;	U+0222E	∮
olarr;	U+021BA	↶
olcir;	U+029BE	◎
olcross;	U+029BB	◎
oline;	U+0203E	—
olt;	U+029C0	◎
Omacr;	U+0014C	Ӧ
omacr;	U+0014D	Ӯ
Omega;	U+003A9	Ѡ
omega;	U+003C9	ѡ
Omicron;	U+0039F	Ѡ
omicron;	U+003BF	ѡ
omid;	U+029B6	Ԁ
ominus;	U+02296	⊖
Oopf;	U+1D546	܂
oopf;	U+1D560	܂
opar;	U+029B7	܂
OpenCurlyDoubleQuote;	U+0201C	“
OpenCurlyQuote;	U+02018	‘
operp;	U+029B9	܂
oplus;	U+02295	܂
Or;	U+02A54	܂
or;	U+02228	܂
orarr;	U+021BB	܂
ord;	U+02A5D	܂
order;	U+02134	܂
orderof;	U+02134	܂
ordf;	U+000AA	܂
ordf;	U+000AA	܂
ordn;	U+000BA	܂
ordm;	U+000BA	܂
origof;	U+022B6	܂
oror;	U+02A56	܂
orslope;	U+02A57	܂
orv;	U+02A5B	܂
os5;	U+024C8	܂
Oscr;	U+1D4AA	܂
oscr;	U+02134	܂
Oslash;	U+000D8	܂
Oslash;	U+000D8	܂
oslash;	U+000F8	܂
oslash;	U+000F8	܂
osol;	U+02298	܂
Otilde;	U+000D5	܂
Otilde;	U+000F5	܂
otilde;	U+000F5	܂
Otimes;	U+02A37	܂
otimes;	U+02297	܂
otimesas;	U+02A36	܂
Ouml;	U+000D6	܂
Ouml;	U+000F6	܂
Ouml;	U+000F6	܂
ovbar;	U+0233D	܂
OverBar;	U+0203E	܂
Overbrace;	U+023DE	܂
OverBracket;	U+023B4	܂
OverParenthesis;	U+023DC	܂
par;	U+02225	܂
para;	U+000B6	܂
para;	U+000B6	܂
parallel;	U+02225	܂
parsim;	U+02AF3	܂
parsl;	U+02AFD	܂
part;	U+02202	܂
PartialD;	U+02202	܂
Pcy;	U+0041F	܂
pcy;	U+0043F	܂
percnt;	U+00025	܂
period;	U+0002E	܂
permil;	U+02030	܂
perp;	U+02245	܂
pertenk;	U+02031	܂
Pfr;	U+1D513	܂
pfr;	U+1D52D	܂
Phi;	U+003A6	܂
phi;	U+003C6	܂
phiv;	U+003D5	܂
phimat;	U+02133	܂
phone;	U+0260E	܂
Pi;	U+003A0	܂
pi;	U+003C0	܂
pitchfork;	U+022D4	܂
piv;	U+003D6	܂
planck;	U+0210F	܂
planckh;	U+0210E	܂
plankv;	U+0210F	܂

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Name	Character(s)	Glyph
plus;	U+002B	+
plusacir;	U+02423	‡
plusb;	U+0229E	田
pluscir;	U+02422	†
plusdo;	U+02214	+
plusdu;	U+02425	+
plusl;	U+02472	±
PlusMinus;	U+000B1	±
plusmn;	U+000B1	±
plusmn;	U+000B1	±
pointint;	U+02A15	§
Popf;	U+02119	¶
popf;	U+1D561	¶
pound;	U+000A3	£
pound;	U+000A3	£
P <small>r</small> ;	U+02AB	¤
pr;	U+0227A	¤
prap;	U+02AB7	¤
prcue;	U+0227C	¤
prE;	U+02AB3	¤
pre;	U+02AAF	¤
prec;	U+0227A	¤
precapprox;	U+02AB7	¤
preccurlyeq;	U+0227C	¤
Precedes;	U+0227A	¤
PrecedesEqual;	U+02AAF	¤
PrecedesSlantEqual;	U+0227C	¤
PrecedesTilde;	U+0227E	¤
preceq;	U+02AAF	¤
precnapprox;	U+02AB9	¤
preccneqq;	U+02AB5	¤
precnsim;	U+022E8	¤
precsim;	U+0227E	¤
Prime;	U+02033	•
prime;	U+02032	•
primes;	U+02119	¶
prnap;	U+02AB9	¤
prnE;	U+02AB5	¤
prnsim;	U+022E8	¤
prod;	U+0220F	Π
Product;	U+0220F	Π
profalar;	U+0232E	¤
profile;	U+02312	¤
profsurf;	U+02313	¤
prop;	U+0221D	¤
Proportion;	U+02237	¤
Proportional;	U+0221D	¤
proto;	U+02211	¤
prsim;	U+0227E	¤
purel;	U+022B0	¤
Pscr;	U+1D4A8	¤
pscr;	U+1D4C6	¤
Psi;	U+003A8	Ψ
psi;	U+003C8	Ψ
puncsp;	U+02008	¤
Qfn;	U+1D514	¤
qr;	U+1D52E	¤
qint;	U+02A0C	¤
Qopf;	U+0211A	¤
qopf;	U+1D562	¤
qprime;	U+02057	¤
Qscr;	U+1D4AC	¤
qscr;	U+1D4C6	¤
quaternions;	U+0210D	¤
quatint;	U+02A16	¤
quest;	U+0003F	?
questeq;	U+0225F	:=
QUOT;	U+00022	"
QUOT	U+00022	"
quot;	U+00022	"
quot	U+00022	"
rAarr;	U+021DB	⇒
race;	U+0223D U+00331	⤒
Racute;	U+00154	⤓
racute;	U+00155	⤓
radic;	U+0221A	√
raemptyv;	U+029B3	∅
Rang;	U+027EB	»
rang;	U+027E9	»
rangd;	U+02992	»
range;	U+029A5	≥
rangle;	U+027E9)

Name	Character(s)	Glyph
rarr;	U+021A0	→
rArr;	U+021D2	⇒
rarr;	U+02192	→
rarrap;	U+02975	⤠
rarrb;	U+021E5	⤡
rarrbfs;	U+02920	⤢
rarrc;	U+02933	⤣
rarrf;	U+02916	⤤
rarrhk;	U+021AA	⤥
rarrlp;	U+021AC	⤦
rarrpl;	U+02945	⤧
rarrsim;	U+02974	⤨
Rartri;	U+02916	⤩
rarrt;	U+021A3	⤪
rarmw;	U+0219D	⤫
rAtail;	U+0291C	⤬
ratali;	U+0291A	⤭
ratio;	U+02236	⋮
rationalis;	U+0211A	⤮
RBar;	U+02910	⤰
rBarr;	U+0290F	⤱
rbarr;	U+0290D	⤲
rbrkr;	U+02773)
rbrace;	U+0007D	}
rbrack;	U+0005D]
rbrke;	U+0298C	⤳
rbarksd;	U+0298E	⤴
rbrkslu;	U+02990	⤵
Rcaron;	U+00158	⤶
rcaron;	U+00159	⤷
Rcedil;	U+00156	⤸
rcedil;	U+00157	⤹
rceil;	U+02309	⠇
rcub;	U+0007D	}
Rcy;	U+00420	PIX
rcy;	U+00440	PIX
rda;	U+02937	PIX
rdldhar;	U+02969	PIX
rdquo;	U+0201D	"
rdquor;	U+0201D	"
rdsh;	U+021B3	PIX
Re;	U+0211C	PIX
real;	U+0211C	PIX
realine;	U+0211B	PIX
realpart;	U+0211C	PIX
reals;	U+0211D	PIX
rect;	U+025AD	□
REG;	U+000AE	PIX
REG	U+000AE	PIX
Reg;	U+000AE	PIX
reg;	U+000AE	PIX
ReverseElement;	U+0220B	⤠
ReverseEquilibrium;	U+021CB	⤡
ReverseUpEquilibrium;	U+0296F	⤣
rfisht;	U+0297D	⤤
rfloor;	U+0230B	⤥
Rfr;	U+0211C	PIX
rfr;	U+1D52F	PIX
Rhar;	U+02964	⤧
rhard;	U+021C1	⤨
rharu;	U+021C0	⤩
rharul;	U+0296C	⤪
Rho;	U+003A1	PIX
rho;	U+003C1	PIX
rhow;	U+003F1	PIX
RightAngleBracket;	U+027E9)
RightArrow;	U+02192	→
Rightarrow;	U+021D2	⤠
rightarrow;	U+02192	→
RightArrowBar;	U+021E5	⤡
RightArrowLeftArrow;	U+021C4	⤢
rightarrowtail;	U+021A3	⤤
RightCeiling;	U+02309	⠇
RightDoubleBracket;	U+027E7	⤦
RightDownTeeVector;	U+0295D	⤩
RightDownVector;	U+021C2	⤪
RightDownVectorBar;	U+02955	⠇
RightFloor;	U+0230B	PIX
rightharpoondown;	U+021C1	⤨
rightharpoonup;	U+021C0	⤩
rightleftarrows;	U+021C4	⤢
rightharpoons;	U+021CC	⤤
rightrightarrows;	U+021C9	⤦
rightsquigarrow;	U+0219D	⤧
RightTee;	U+022A2	⤪
RightTeeArrow;	U+021A6	⤪
RightTeeVector;	U+0295B	PIX
rightthreetimes;	U+022CC	⤤

Name	Character(s)	Gly
RightTriangle;	U+022B3	▷
RightTriangleBar;	U+029D0	▷
RightTriangleEqual;	U+022B5	▷
RightUpDownVector;	U+0204F	▷
RightUpTeeVector;	U+0295C	▷
RightUpVector;	U+021BE	▷
RightUpVectorBar;	U+02954	▷
RightVector;	U+021C0	▷
RightVectorBar;	U+02953	▷
ring;	U+002DA	▷
risingdotseq;	U+02253	▷
rlarr;	U+021C4	▷
rlhar;	U+021CC	▷
rlm;	U+0200F	▷
rmoust;	U+023B1	▷
rmoustache;	U+023B1	▷
rmwid;	U+02AEE	▷
roang;	U+027ED	▷
roarr;	U+021FE	▷
robrr;	U+027E7	▷
ropar;	U+02986	▷
Ropf;	U+0211D	▷
ropf;	U+1D563	▷
ropius;	U+02A2E	▷
rotimes;	U+02A35	×
RoundImplies;	U+02970	=
rpar;	U+00029)
rpargt;	U+02994	>
rppolint;	U+02A12	f
rrarr;	U+021C9	=
Reightarrow;	U+021DB	=
rsaguo;	U+0203A	>
Rscr;	U+0211B	⤒
rscri;	U+1D4C7	⤒
Rsh;	U+021B1	⤒
rsj;	U+021B1	⤒
rsqb;	U+0005D	⤒
rsquo;	U+02019	⤒
rsquor;	U+02019	⤒
rtthree;	U+022CC	⤒
rtimes;	U+022CA	⤒
rtri;	U+025B9	⤒
rtrie;	U+022B5	⤒
rtrif;	U+025B8	⤒
rtriltri;	U+029CE	⤒
RuleDelayed;	U+029F4	⤒
ruluhar;	U+02968	⤒
rx;	U+0211E	⤒
Sacute;	U+0015A	⤒
sacute;	U+0015B	⤒
sbquo;	U+0201A	⤒
Sc;	U+02ABC	⤒
sc;	U+0227B	⤒
scap;	U+02AB8	⤒
Scaron;	U+00160	⤒
scaron;	U+00161	⤒
sccue;	U+0227D	⤒
scE;	U+02AB4	⤒
sce;	U+02AB0	⤒
Scedil;	U+0015E	⤒
scedil;	U+0015F	⤒
Scirc;	U+0015C	⤒
scirc;	U+0015D	⤒
scsnap;	U+02ABA	⤒
scne;	U+02AB6	⤒
scnsim;	U+022E9	⤒
scpolint;	U+02A13	⤒
scsim;	U+0227F	⤒
Scy;	U+00421	⤒
sey;	U+00441	⤒
sdot;	U+022C5	⤒
sdotb;	U+022A1	⤒
sdotc;	U+02A66	⤒
searnh;	U+02925	⤒
seArr;	U+021D8	⤒
searr;	U+02198	⤒
searrow;	U+02198	⤒
sect;	U+000A7	⤒
sect;	U+000A7	⤒
semi;	U+0003B	⤒
seswar;	U+02929	⤒
setminus;	U+02216	⤒
setmin;	U+02216	⤒
sextr;	U+02736	⤒
Sfr;	U+1D516	⤒
sfr;	U+1D530	⤒
sfrrown;	U+02322	⤒
sharp;	U+0266F	⤒

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Name	Character(s)	Glyph
ShChcy;	U+00429	҃
shchcy;	U+00449	҄
Slicy;	U+00428	҅
schy;	U+00448	҆
ShortDownArrow;	U+02193	↓
ShortLeftArrow;	U+02190	←
shortmid;	U+02223	׀
shortparallel;	U+02225	׀׀
ShortRightArrow;	U+02192	→
ShortUpArrow;	U+02181	↑
shy;	U+000AD	
shy;	U+000AD	
Sigma;	U+003A3	Σ
sigma;	U+003C3	σ
sigmap;	U+003C2	ς
sigmav;	U+003C2	ς
sim;	U+0223C	϶
simdot;	U+02A6A	϶
simE;	U+02243	϶
simEQ;	U+02243	϶
sing;	U+02A9E	϶
simpE;	U+02A20	϶
siml;	U+02A9D	϶
simL;	U+02A9F	϶
simne;	U+02246	϶
simplus;	U+02A24	϶
simrarr;	U+02972	϶
slarr;	U+02190	←
SmallCircle;	U+02218	◦
smallsetminus;	U+02216	\
smashp;	U+02A33	*
separls;	U+029E4	#
seid;	U+02223	׀
smile;	U+02323	ׁ
set;	U+02AAA	<
sete;	U+02AAC	≤
setes;	U+02AAC U+0FE00	≤
SOFTcy;	U+0042C	܂
softcy;	U+0044C	܂
sol;	U+0002F	/
solb;	U+029C4	܂
solbar;	U+0233F	/
Sopf;	U+1D54A	܂
sopf;	U+1D564	܂
spades;	U+02660	♦
spadesuit;	U+02660	♦
span;	U+02225	׀׀
sqcap;	U+02293	□
sqcaps;	U+02293 U+0FE00	□
sqcup;	U+02294	□
sqcup;	U+02294 U+0FE00	□
Sqrt;	U+0221A	√
sqsub;	U+0228F	□
sqsube;	U+02291	□
sqsubset;	U+0228F	□
sqsubseteq;	U+02291	□
sqsup;	U+02290	□
sqsup;	U+02292	□
sqsupset;	U+02290	□
sqsupseteq;	U+02292	□
squ;	U+025A1	□
Square;	U+025A1	□
square;	U+025A1	□
SquareIntersection;	U+02293	□
SquareSubset;	U+0228F	□
SquareSubsetEqual;	U+02291	□
SquareSuperset;	U+02290	□
SquareSupersetEqual;	U+02292	□
SquareUnion;	U+02294	□
squaref;	U+025AA	▪
squf;	U+025AA	▪
srarr;	U+02192	→
Sscr;	U+1D4AE	܂
sscr;	U+1D4C8	܂
ssetmn;	U+02216	\
ssmile;	U+02323	ׁ
ststarf;	U+022C6	★
Star;	U+022C6	★
stan;	U+02606	☆
starf;	U+02605	★
straightepsilon;	U+003F5	϶
straightphi;	U+003D5	϶
strns;	U+000AF	—
Sub;	U+022D0	܂
sub;	U+022B2	܂
subdot;	U+02ABD	܂

Name	Character(s)	Glyph
subdot;	U+02AC3	܂
submult;	U+02AC1	܂
subnE;	U+02ACB	܂
subne;	U+0228A	܂
subplus;	U+02ABF	܂
subrarr;	U+02979	܂
Subset;	U+022D0	܂
subset;	U+02282	܂
subseteq;	U+02286	܂
subseteqq;	U+02AC5	܂
SubsetEqual;	U+02286	܂
subsetneq;	U+0228A	܂
subsetneqq;	U+02ACB	܂
subsim;	U+02AC7	܂
subsub;	U+02AD5	܂
subsup;	U+02AD3	܂
succ;	U+0227B	>y
succapprox;	U+02A88	܂
succcurlyeq;	U+0227D	܂
Succeeds;	U+0227B	>y
SucceedsEqual;	U+02AB0	܂
SucceedsSlantEqual;	U+0227D	܂
SucceedsTilde;	U+0227F	܂
succq;	U+02AB0	܂
succnapprox;	U+02ABA	܂
succneqq;	U+02AB6	܂
succnsim;	U+022E9	܂
succsim;	U+0227F	܂
SuchThat;	U+0220B	܂
Sum;	U+02211	܂
sum;	U+02211	܂
sung;	U+0266A	܂
Sup;	U+022D1	܂
sup;	U+02283	܂
sup1;	U+000B9	܂
sup1;	U+000B9	܂
sup2;	U+000B2	܂
sup2;	U+000B2	܂
sup3;	U+000B3	܂
sup3;	U+000B3	܂
supdot;	U+02ABE	܂
supdotsub;	U+02AD8	܂
supE;	U+02AC6	܂
supe;	U+02287	܂
supedot;	U+02AC4	܂
Superset;	U+02283	܂
SupersetEqual;	U+02287	܂
suphsol;	U+027C9	܂
suphsub;	U+02AD7	܂
supiarr;	U+0297B	܂
supmult;	U+02AC2	܂
supn;	U+02ACC	܂
supne;	U+0228B	܂
supplus;	U+02AC0	܂
Supset;	U+022D1	܂
supset;	U+02283	܂
supseteq;	U+02287	܂
supseteqq;	U+02AC6	܂
supsetneq;	U+0228B	܂
supsetneqq;	U+02AC2	܂
supsim;	U+02AC8	܂
supsub;	U+02AD4	܂
supsup;	U+02AD6	܂
swarhk;	U+02926	܂
swArr;	U+021D9	܂
swarr;	U+02199	܂
swarrow;	U+02199	܂
swvar;	U+0292A	܂
szlig;	U+000DF	܂
szlig;	U+000DF	܂
Tab;	U+00009	܂
target;	U+02316	܂
Tau;	U+003A4	܂
tau;	U+003C4	܂
tbrk;	U+023B4	܂
Tcaron;	U+00164	܂
tcaron;	U+00165	܂
Tcedil;	U+00162	܂
Tcedil;	U+00163	܂
Tcy;	U+00422	܂
tcy;	U+00442	܂
tdot;	U+020DB	܂
telrec;	U+02315	܂
Tfr;	U+1D517	܂
tfr;	U+1D531	܂
there4;	U+02234	܂
Therefore;	U+02234	܂
therefore;	U+02234	܂

Name	Character(s)	Glyph
Theta;	U+00398	܂
theta;	U+003B8	܂
thetasym;	U+003D1	܂
thetav;	U+003D1	܂
thickapprox;	U+02248	܂
thicksim;	U+0223C	܂
ThickSpace;	U+0205F U+0200A	܂
thinsp;	U+02009	܂
ThinSpace;	U+02009	܂
thkap;	U+02248	܂
thksim;	U+0223C	܂
THORN;	U+000DE	܂
THORN	U+000DE	܂
thorn;	U+000FE	܂
thorn;	U+000FE	܂
Tilde;	U+0223C	܂
tilde;	U+002DC	܂
TildeEqual;	U+02243	܂
TildeFullerEqual;	U+02245	܂
TildeTilde;	U+02248	܂
times;	U+000D7	܂
times;	U+000D7	܂
timesb;	U+022A0	܂
timesbar;	U+02A31	܂
timesd;	U+02A30	܂
tint;	U+0222D	܂
toea;	U+02928	܂
top;	U+022A4	܂
topbot;	U+02336	܂
topicir;	U+02AF1	܂
Topf;	U+1D54B	܂
topf;	U+1D565	܂
topfork;	U+02ADA	܂
tosa;	U+02929	܂
tprime;	U+02034	܂
TRADE;	U+02122	܂
trade;	U+02122	܂
triangle;	U+025B5	܂
triangledown;	U+025BF	܂
triangleft;	U+025C3	܂
trianglelefteq;	U+022B4	܂
triangleq;	U+0225C	܂
triangleright;	U+025B9	܂
trianglerigheq;	U+022B5	܂
tridot;	U+025EC	܂
trie;	U+0225C	܂
triminus;	U+02A3A	܂
TripleDot;	U+020DB	܂
triplus;	U+02A39	܂
trib;	U+029CD	܂
tritime;	U+02A3B	܂
trpezium;	U+023E2	܂
Tscr;	U+1D4AF	܂
tscr;	U+1D4C9	܂
TScy;	U+00426	܂
tscy;	U+00446	܂
TShcy;	U+0040B	܂
tshcy;	U+0045B	܂
Tstrok;	U+00166	܂
tstrok;	U+00167	܂
twixt;	U+0226C	܂
twoheadleftarrow;	U+0219E	܂
twoheadrightarrow;	U+021A0	܂
uacute;	U+000DA	܂
uacute;	U+000DA	܂
uacute;	U+000FA	܂
uacute;	U+000FA	܂
Jarr;	U+0219F	܂
uArr;	U+021D1	܂
uarr;	U+02191	܂
Uarrocir;	U+02949	܂
Ubrcy;	U+0040E	܂
ubrcy;	U+0045E	܂
Ubreve;	U+0016C	܂
ubreve;	U+0016D	܂
Ucirc;	U+000DB	܂
Ucirc;	U+000DB	܂
ucirc;	U+000FB	܂
ucirc;	U+000FB	܂
ucy;	U+00423	܂
ucy;	U+00443	܂
udarr;	U+021C5	܂
udblac;	U+00170	܂
udblac;	U+00171	܂
udhar;	U+0296E	܂
ufisht;	U+0297E	܂
Ufr;	U+1D518	܂
ufr;	U+1D532	܂

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Name	Character(s)	Glyph
Ugrave;	U+000D9	Ü
Ugrave	U+000D9	Ü
ugrave;	U+000F9	ú
ugrave	U+000F9	ú
uhar;	U+02963	ñ
uharl;	U+021BF	ñ
uharr;	U+021BE	ñ
uhblk;	U+02580	■
ulcorn;	U+0231C	ؚ
ulcorner;	U+0231C	ؚ
ulcrop;	U+0230F	ؘ
ultri;	U+025F8	ؙ
Umacr;	U+0016A	Ӯ
umacr;	U+0016B	ӯ
uel;	U+000A8	߱
uel	U+000A8	߱
UnderBar;	U+0005F	—
UnderBrace;	U+023DF	ܻ
UnderBracket;	U+02385	ܻ
UnderParenthesis;	U+023DD	ܻ
Union;	U+022C3	ܻ
UnionPlus;	U+0228E	ܻ
Uogon;	U+00172	ܻ
uogon;	U+00173	ܻ
Uopf;	U+1D54C	ܻ
uopf;	U+1D566	ܻ
UpArrow;	U+02191	↑
UpArrow;	U+021D1	ܻ
uparrow;	U+02191	↑
UpArrowBar;	U+02912	ܻ
UpArrowDownArrow;	U+021C5	ܻ
UpDownArrow;	U+02195	ܻ
Updownarrow;	U+021D5	ܻ
updownarrow;	U+02195	ܻ
UpEquilibrium;	U+0296E	ܻ
upharpoonleft;	U+021BF	ܻ
upharpoonright;	U+021BE	ܻ
uplus;	U+0228E	ܻ
UpperLeftArrow;	U+02196	ܻ
UpperRightArrow;	U+02197	ܻ
Upsi;	U+003D2	ܻ
upsi;	U+003C5	ܻ
upsi;	U+003D2	ܻ
Upsilon;	U+003A5	ܻ
upsilon;	U+003C5	ܻ
UpTee;	U+022A5	ܻ
UpTeeArrow;	U+021A5	ܻ
upuparrows;	U+021C8	ܻ
urcorn;	U+0231D	ܻ
urcorner;	U+0231D	ܻ
urcrop;	U+0230E	ܻ
Uring;	U+0016E	ܻ
uring;	U+0016F	ܻ
utri;	U+025F9	ܻ
Uscr;	U+1D480	ܻ
uscr;	U+1D4CA	ܻ
utdot;	U+022F0	ܻ
Utilde;	U+00168	ܻ
utilde;	U+00169	ܻ
utri;	U+025B5	ܻ
utrif;	U+025B4	ܻ
uvarr;	U+021C8	ܻ
Uuml;	U+000DC	ܻ
Uuml	U+000DC	ܻ
uuml;	U+000FC	ܻ
uuml;	U+000FC	ܻ
uwave;	U+029A7	ܻ
vangrt;	U+0299C	ܻ
varepsilonlon;	U+003F5	ܻ
varkappa;	U+003F0	ܻ
varnothing;	U+02205	ܻ
varphi;	U+003D5	ܻ
varpi;	U+003D6	ܻ
varproto;	U+0221D	ܻ
varrr;	U+021D5	ܻ
varrr;	U+02195	ܻ
varrho;	U+003F1	ܻ
varsigma;	U+003C2	ܻ
varsubsetneq;	U+0228A U+0FE00	ܻ
varsubsetneqq;	U+02ACB U+0FE00	ܻ
varsupsetneq;	U+0228B U+0FE00	ܻ
varsupsetneqq;	U+02ACC U+0FE00	ܻ
vartheta;	U+003D1	ܻ
vartriangleleft;	U+022B2	ܻ
vartriangleright;	U+022B3	ܻ
Vbar;	U+02AE8	ܻ

Name	Character(s)	Glyph
vBary;	U+02AE9	ܻ
Vcy;	U+00412	ܻ
vcy;	U+00432	ܻ
VDash;	U+022AB	ܻ
Vdash;	U+022A9	ܻ
vDash;	U+022A8	ܻ
vdaash;	U+022A2	ܻ
Vdash1;	U+02AE6	ܻ
Vee;	U+022C1	ܻ
vee;	U+02228	ܻ
veear;	U+022B8	ܻ
veeq;	U+0225A	ܻ
vellip;	U+022EE	ܻ
Verbar;	U+02016	ܻ
verbar;	U+0007C	ܻ
Vert;	U+02016	ܻ
vert;	U+0007C	ܻ
VerticalBar;	U+02223	ܻ
VerticalLine;	U+0007C	ܻ
VerticalSeparator;	U+02758	ܻ
VerticalTilde;	U+02240	ܻ
VeryThinSpace;	U+0200A	ܻ
Vfr;	U+1D519	ܻ
vfr;	U+10533	ܻ
Vltri;	U+022B2	ܻ
vnsupb;	U+02282 U+020D2	ܻ
vnsup;	U+02283 U+020D2	ܻ
Vopf;	U+1D54D	ܻ
vopf;	U+1D567	ܻ
vprop;	U+0221D	ܻ
vrtri;	U+022B3	ܻ
Vscr;	U+1D4B1	ܻ
vscri;	U+1D4CB	ܻ
vsunE;	U+02ACB U+0FE00	ܻ
vsunbe;	U+0228A U+0FE00	ܻ
vsupnE;	U+02ACC U+0FE00	ܻ
vsupne;	U+0228B U+0FE00	ܻ
wedbar;	U+02A5F	ܻ
Wedge;	U+022C0	ܻ
wedge;	U+02227	ܻ
wedgeq;	U+02259	ܻ
weierp;	U+02118	ܻ
Wfr;	U+1D51A	ܻ
wfr;	U+1D534	ܻ
Wopf;	U+1D54E	ܻ
wopf;	U+1D568	ܻ
wp;	U+02118	ܻ
wr;	U+02240	ܻ
wreath;	U+02240	ܻ
Wscr;	U+1D4B2	ܻ
wscri;	U+1D4CC	ܻ
xcap;	U+022C2	ܻ
xcirc;	U+025EF	ܻ
xcup;	U+022C3	ܻ
xtri;	U+025BD	ܻ
Xfr;	U+1D51B	ܻ
xfr;	U+1D535	ܻ
xhArr;	U+027FA	ܻ
xharr;	U+027F7	ܻ
XI;	U+0039E	ܻ
xi;	U+003BE	ܻ
xLArr;	U+027F8	ܻ
xlaarr;	U+027F5	ܻ
xmap;	U+027FC	ܻ
xnis;	U+022FB	ܻ
xodot;	U+02A00	ܻ
Xopf;	U+1D54F	ܻ
xopf;	U+1D569	ܻ
xoplus;	U+02A01	ܻ
xotime;	U+02A02	ܻ
xrArr;	U+027F9	ܻ
xrarr;	U+027F6	ܻ
Xscr;	U+1D4B3	ܻ
xscr;	U+1D4CD	ܻ
xsqcup;	U+02A06	ܻ
xuplus;	U+02A04	ܻ
xutri;	U+025B3	ܻ
xvee;	U+022C1	ܻ
xwedge;	U+022C0	ܻ
Yacute;	U+000DD	ܻ
Yacute;	U+000DD	ܻ
yacute;	U+000FD	ܻ
yacute;	U+000FD	ܻ

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This data is also available as a [JSON file](#).

The glyphs displayed above are non-normative. Refer to [Unicode](#) for formal definitions of the characters listed above.

Note

The character reference names originate from XML Entity Definitions for Characters, though only the above is considered normative. [XMLENTITY]

Note

This list is static and [will not be expanded or changed in the future](#).

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