

# WGL Character Set

Microsoft has defined a pan-European character set known as WGL (Windows Glyph List). It contains approximately 652 characters that are required for Western, Central and Eastern European languages. Many of Microsoft's core fonts for Windows and the web support WGL, and they have become popular with multi-national companies as well as software and hardware developers who do business in the European Community. WGL fonts make it easier to create and share multilingual documents.

Ascender is noted for our expertise to create fonts with extended language support, and to enhance an existing font to support the WGL character set. For more information on our custom font capabilities, please [contact us](#).

Unicode	Shape	Glyph name	Unicode Name	Unicode Block
0020		space	space	Basic Latin
0021	!	exclam	exclamation mark	Basic Latin
0022	"	quotebl	quotation mark	Basic Latin
0023	#	numbersign	number sign	Basic Latin
0024	\$	dollar	dollar sign	Basic Latin
0025	%	percent	percent sign	Basic Latin
0026	&	ampersand	ampersand	Basic Latin
0027	'	quotesingle	apostrophe	Basic Latin
0028	(	parenleft	left parenthesis	Basic Latin
0029	)	parenright	right parenthesis	Basic Latin
002A	*	asterisk	asterisk	Basic Latin
002B	+	plus	plus sign	Basic Latin
002C	,	comma	comma	Basic Latin
002D	-	hyphen	hyphen-minus	Basic Latin
002E	.	period	full stop	Basic Latin
002F	/	slash	solidus	Basic Latin
0030	0	zero	digit zero	Basic Latin
0031	1	one	digit one	Basic Latin
0032	2	two	digit two	Basic Latin
0033	3	three	digit three	Basic Latin
0034	4	four	digit four	Basic Latin
0035	5	five	digit five	Basic Latin
0036	6	six	digit six	Basic Latin
0037	7	seven	digit seven	Basic Latin
0038	8	eight	digit eight	Basic Latin
0039	9	nine	digit nine	Basic Latin
003A	:	colon	colon	Basic Latin
003B	;	semicolon	semicolon	Basic Latin

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Unicode	Shape	Glyph name	Unicode Name	Unicode Block
003C	<	less	less-than sign	Basic Latin
003D	=	equal	equals sign	Basic Latin
003E	>	greater	greater-than sign	Basic Latin
003F	?	question	question mark	Basic Latin
0040	@	at	commercial at	Basic Latin
0041	A	A	latin capital letter a	Basic Latin
0042	B	B	latin capital letter b	Basic Latin
0043	C	C	latin capital letter c	Basic Latin
0044	D	D	latin capital letter d	Basic Latin
0045	E	E	latin capital letter e	Basic Latin
0046	F	F	latin capital letter f	Basic Latin
0047	G	G	latin capital letter g	Basic Latin
0048	H	H	latin capital letter h	Basic Latin
0049	I	I	latin capital letter i	Basic Latin
004A	J	J	latin capital letter j	Basic Latin
004B	K	K	latin capital letter k	Basic Latin
004C	L	L	latin capital letter l	Basic Latin
004D	M	M	latin capital letter m	Basic Latin
004E	N	N	latin capital letter n	Basic Latin
004F	O	O	latin capital letter o	Basic Latin
0050	P	P	latin capital letter p	Basic Latin
0051	Q	Q	latin capital letter q	Basic Latin
0052	R	R	latin capital letter r	Basic Latin
0053	S	S	latin capital letter s	Basic Latin
0054	T	T	latin capital letter t	Basic Latin
0055	U	U	latin capital letter u	Basic Latin
0056	V	V	latin capital letter v	Basic Latin
0057	W	W	latin capital letter w	Basic Latin
0058	X	X	latin capital letter x	Basic Latin
0059	Y	Y	latin capital letter y	Basic Latin
005A	Z	Z	latin capital letter z	Basic Latin
005B	[	bracketleft	left square bracket	Basic Latin
005C	\	backslash	reverse solidus	Basic Latin
005D	]	bracketright	right square bracket	Basic Latin
005E	^	asciicircum	circumflex accent	Basic Latin

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Unicode	Shape	Glyph name	Unicode Name	Unicode Block
005F	—	underscore	low line	Basic Latin
0060	`	grave	grave accent	Basic Latin
0061	a	a	latin small letter a	Basic Latin
0062	b	b	latin small letter b	Basic Latin
0063	c	c	latin small letter c	Basic Latin
0064	d	d	latin small letter d	Basic Latin
0065	e	e	latin small letter e	Basic Latin
0066	f	f	latin small letter f	Basic Latin
0067	g	g	latin small letter g	Basic Latin
0068	h	h	latin small letter h	Basic Latin
0069	i	i	latin small letter i	Basic Latin
006A	j	j	latin small letter j	Basic Latin
006B	k	k	latin small letter k	Basic Latin
006C	l	l	latin small letter l	Basic Latin
006D	m	m	latin small letter m	Basic Latin
006E	n	n	latin small letter n	Basic Latin
006F	o	o	latin small letter o	Basic Latin
0070	p	p	latin small letter p	Basic Latin
0071	q	q	latin small letter q	Basic Latin
0072	r	r	latin small letter r	Basic Latin
0073	s	s	latin small letter s	Basic Latin
0074	t	t	latin small letter t	Basic Latin
0075	u	u	latin small letter u	Basic Latin
0076	v	v	latin small letter v	Basic Latin
0077	w	w	latin small letter w	Basic Latin
0078	x	x	latin small letter x	Basic Latin
0079	y	y	latin small letter y	Basic Latin
007A	z	z	latin small letter z	Basic Latin
007B	{	braceleft	left curly bracket	Basic Latin
007C		bar	vertical line	Basic Latin
007D	}	braceright	right curly bracket	Basic Latin
007E	~	asciitilde	tilde	Basic Latin
00A0		uni00A0	no-break space	Latin-1 Supplement
00A1	¡	exclamdown	inverted exclamation mark	Latin-1 Supplement
00A2	¢	cent	cent sign	Latin-1 Supplement

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Unicode	Shape	Glyph name	Unicode Name	Unicode Block
00A3	£	sterling	pound sign	Latin-1 Supplement
00A4	¤	currency	currency sign	Latin-1 Supplement
00A5	¥	yen	yen sign	Latin-1 Supplement
00A6		brokenbar	broken bar	Latin-1 Supplement
00A7	§	section	section sign	Latin-1 Supplement
00A8	¨	dieresis	diaeresis	Latin-1 Supplement
00A9	©	copyright	copyright sign	Latin-1 Supplement
00AA	ª	ordfeminine	feminine ordinal indicator	Latin-1 Supplement
00AB	«	guillemotleft	left-pointing double angle quotation mark	Latin-1 Supplement
00AC	¬	logicalnot	not sign	Latin-1 Supplement
00AD		uni00AD	soft hyphen	Latin-1 Supplement
00AE	®	registered	registered sign	Latin-1 Supplement
00AF	—	macron	macron	Latin-1 Supplement
00B0	°	degree	degree sign	Latin-1 Supplement
00B1	±	plusminus	plus-minus sign	Latin-1 Supplement
00B2	²	uni00B2	superscript two	Latin-1 Supplement
00B3	³	uni00B3	superscript three	Latin-1 Supplement
00B4	´	acute	acute accent	Latin-1 Supplement
00B5	µ	mu	micro sign	Latin-1 Supplement
00B6	¶	paragraph	pilcrow sign	Latin-1 Supplement
00B7	·	periodcentered	middle dot	Latin-1 Supplement
00B8	¸	cedilla	cedilla	Latin-1 Supplement
00B9	¹	uni00B9	superscript one	Latin-1 Supplement
00BA	º	ordmasculine	masculine ordinal indicator	Latin-1 Supplement
00BB	»	guillemotright	right-pointing double angle quotation mark	Latin-1 Supplement
00BC	¼	onequarter	vulgar fraction one quarter	Latin-1 Supplement
00BD	½	onehalf	vulgar fraction one half	Latin-1 Supplement
00BE	¾	threequarters	vulgar fraction three quarters	Latin-1 Supplement
00BF	¿	questiondown	inverted question mark	Latin-1 Supplement
00C0	À	Agrave	latin capital letter a with grave	Latin-1 Supplement
00C1	Á	Aacute	latin capital letter a with acute	Latin-1 Supplement
00C2	Â	Acircumflex	latin capital letter a with circumflex	Latin-1 Supplement
00C3	Ã	Atilde	latin capital letter a with tilde	Latin-1 Supplement
00C4	Ä	Adieresis	latin capital letter a with diaeresis	Latin-1 Supplement
00C5	Å	Aring	latin capital letter a with ring above	Latin-1 Supplement

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Unicode	Shape	Glyph name	Unicode Name	Unicode Block
00C6	Æ	AE	latin capital letter ae	Latin-1 Supplement
00C7	Ç	Ccedilla	latin capital letter c with cedilla	Latin-1 Supplement
00C8	È	Egrave	latin capital letter e with grave	Latin-1 Supplement
00C9	É	Eacute	latin capital letter e with acute	Latin-1 Supplement
00CA	Ê	Ecircumflex	latin capital letter e with circumflex	Latin-1 Supplement
00CB	Ë	Edieresis	latin capital letter e with diaeresis	Latin-1 Supplement
00CC	Ì	Igrave	latin capital letter i with grave	Latin-1 Supplement
00CD	Í	Iacute	latin capital letter i with acute	Latin-1 Supplement
00CE	Î	Icircumflex	latin capital letter i with circumflex	Latin-1 Supplement
00CF	Ï	Idieresis	latin capital letter i with diaeresis	Latin-1 Supplement
00D0	Ð	Eth	latin capital letter eth	Latin-1 Supplement
00D1	Ñ	Ntilde	latin capital letter n with tilde	Latin-1 Supplement
00D2	Ò	Ograve	latin capital letter o with grave	Latin-1 Supplement
00D3	Ó	Oacute	latin capital letter o with acute	Latin-1 Supplement
00D4	Ô	Ocircumflex	latin capital letter o with circumflex	Latin-1 Supplement
00D5	Õ	Otilde	latin capital letter o with tilde	Latin-1 Supplement
00D6	Ö	Odieresis	latin capital letter o with diaeresis	Latin-1 Supplement
00D7	×	multiply	multiplication sign	Latin-1 Supplement
00D8	Ø	Oslash	latin capital letter o with stroke	Latin-1 Supplement
00D9	Ù	Ugrave	latin capital letter u with grave	Latin-1 Supplement
00DA	Ú	Uacute	latin capital letter u with acute	Latin-1 Supplement
00DB	Û	Ucircumflex	latin capital letter u with circumflex	Latin-1 Supplement
00DC	Ü	Udieresis	latin capital letter u with diaeresis	Latin-1 Supplement
00DD	Ý	Yacute	latin capital letter y with acute	Latin-1 Supplement
00DE	Þ	Thorn	latin capital letter thorn	Latin-1 Supplement
00DF	ß	germandbls	latin small letter sharp s	Latin-1 Supplement
00E0	à	agrave	latin small letter a with grave	Latin-1 Supplement
00E1	á	aacute	latin small letter a with acute	Latin-1 Supplement
00E2	â	acircumflex	latin small letter a with circumflex	Latin-1 Supplement
00E3	ã	atilde	latin small letter a with tilde	Latin-1 Supplement
00E4	ä	adieresis	latin small letter a with diaeresis	Latin-1 Supplement
00E5	å	aring	latin small letter a with ring above	Latin-1 Supplement
00E6	æ	ae	latin small letter ae	Latin-1 Supplement
00E7	ç	cedilla	latin small letter c with cedilla	Latin-1 Supplement
00E8	è	egrave	latin small letter e with grave	Latin-1 Supplement

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Unicode	Shape	Glyph name	Unicode Name	Unicode Block
00E9	é	eacute	latin small letter e with acute	Latin-1 Supplement
00EA	ê	ecircumflex	latin small letter e with circumflex	Latin-1 Supplement
00EB	ë	edieresis	latin small letter e with diaeresis	Latin-1 Supplement
00EC	ì	igrave	latin small letter i with grave	Latin-1 Supplement
00ED	í	iacute	latin small letter i with acute	Latin-1 Supplement
00EE	î	icircumflex	latin small letter i with circumflex	Latin-1 Supplement
00EF	ï	idieresis	latin small letter i with diaeresis	Latin-1 Supplement
00F0	ð	eth	latin small letter eth	Latin-1 Supplement
00F1	ñ	ntilde	latin small letter n with tilde	Latin-1 Supplement
00F2	ò	ograve	latin small letter o with grave	Latin-1 Supplement
00F3	ó	oacute	latin small letter o with acute	Latin-1 Supplement
00F4	ô	ocircumflex	latin small letter o with circumflex	Latin-1 Supplement
00F5	õ	otilde	latin small letter o with tilde	Latin-1 Supplement
00F6	ö	odieresis	latin small letter o with diaeresis	Latin-1 Supplement
00F7	÷	divide	division sign	Latin-1 Supplement
00F8	ø	oslash	latin small letter o with stroke	Latin-1 Supplement
00F9	ù	ugrave	latin small letter u with grave	Latin-1 Supplement
00FA	ú	uacute	latin small letter u with acute	Latin-1 Supplement
00FB	û	ucircumflex	latin small letter u with circumflex	Latin-1 Supplement
00FC	ü	udieresis	latin small letter u with diaeresis	Latin-1 Supplement
00FD	ý	yacute	latin small letter y with acute	Latin-1 Supplement
00FE	þ	thorn	latin small letter thorn	Latin-1 Supplement
00FF	ÿ	ydieresis	latin small letter y with diaeresis	Latin-1 Supplement
0100	Ā	Amacron	latin capital letter a with macron	Latin Extended-A
0101	ā	amacron	latin small letter a with macron	Latin Extended-A
0102	Ă	Abreve	latin capital letter a with breve	Latin Extended-A
0103	ă	abreve	latin small letter a with breve	Latin Extended-A
0104	Ą	Aogonek	latin capital letter a with ogonek	Latin Extended-A
0105	ą	aogonek	latin small letter a with ogonek	Latin Extended-A
0106	Ć	Cacute	latin capital letter c with acute	Latin Extended-A
0107	ć	cacute	latin small letter c with acute	Latin Extended-A
0108	Ĉ	Ccircumflex	latin capital letter c with circumflex	Latin Extended-A
0109	ĉ	ccircumflex	latin small letter c with circumflex	Latin Extended-A
010A	Č	Cdotaccent	latin capital letter c with dot above	Latin Extended-A
010B	č	cdotaccent	latin small letter c with dot above	Latin Extended-A

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Unicode	Shape	Glyph name	Unicode Name	Unicode Block
010C	Č	Ccaron	latin capital letter c with caron	Latin Extended-A
010D	č	ccaron	latin small letter c with caron	Latin Extended-A
010E	Ď	Dcaron	latin capital letter d with caron	Latin Extended-A
010F	ď	dcaron	latin small letter d with caron	Latin Extended-A
0110	Đ	Dcroat	latin capital letter d with stroke	Latin Extended-A
0111	đ	dcroat	latin small letter d with stroke	Latin Extended-A
0112	Ě	Emacron	latin capital letter e with macron	Latin Extended-A
0113	ě	emacron	latin small letter e with macron	Latin Extended-A
0114	Ě	Ebreve	latin capital letter e with breve	Latin Extended-A
0115	ě	ebreve	latin small letter e with breve	Latin Extended-A
0116	Ě	Edotaccent	latin capital letter e with dot above	Latin Extended-A
0117	ě	edotaccent	latin small letter e with dot above	Latin Extended-A
0118	Ę	Eogonek	latin capital letter e with ogonek	Latin Extended-A
0119	ę	eogonek	latin small letter e with ogonek	Latin Extended-A
011A	Ě	Ecaron	latin capital letter e with caron	Latin Extended-A
011B	ě	ecaron	latin small letter e with caron	Latin Extended-A
011C	Ĝ	Gcircumflex	latin capital letter g with circumflex	Latin Extended-A
011D	ĝ	gcircumflex	latin small letter g with circumflex	Latin Extended-A
011E	Ĝ	Gbreve	latin capital letter g with breve	Latin Extended-A
011F	ĝ	gbreve	latin small letter g with breve	Latin Extended-A
0120	Ĝ	Gdotaccent	latin capital letter g with dot above	Latin Extended-A
0121	ĝ	gdotaccent	latin small letter g with dot above	Latin Extended-A
0122	Ĝ	Gcommaaccent	latin capital letter g with cedilla	Latin Extended-A
0123	ĝ	gcommaaccent	latin small letter g with cedilla	Latin Extended-A
0124	Ĥ	Hcircumflex	latin capital letter h with circumflex	Latin Extended-A
0125	ĥ	hcircumflex	latin small letter h with circumflex	Latin Extended-A
0126	Ħ	Hbar	latin capital letter h with stroke	Latin Extended-A
0127	ħ	hbar	latin small letter h with stroke	Latin Extended-A
0128	İ	Itilde	latin capital letter i with tilde	Latin Extended-A
0129	ı	itilde	latin small letter i with tilde	Latin Extended-A
012A	Ī	I macron	latin capital letter i with macron	Latin Extended-A
012B	ī	imacron	latin small letter i with macron	Latin Extended-A
012C	İ	I breve	latin capital letter i with breve	Latin Extended-A
012D	ı	ibreve	latin small letter i with breve	Latin Extended-A
012E	Į	Iogonek	latin capital letter i with ogonek	Latin Extended-A

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Unicode	Shape	Glyph name	Unicode Name	Unicode Block
012F	ı	iogonek	latin small letter i with ogonek	Latin Extended-A
0130	İ	Idotaccent	latin capital letter i with dot above	Latin Extended-A
0131	ı	dotlessi	latin small letter dotless i	Latin Extended-A
0132	IJ	Ij	latin capital ligature ij	Latin Extended-A
0133	ij	ij	latin small ligature ij	Latin Extended-A
0134	Ĵ	Jcircumflex	latin capital letter j with circumflex	Latin Extended-A
0135	ĵ	jcircumflex	latin small letter j with circumflex	Latin Extended-A
0136	Ɔ	Kcommaaccent	latin capital letter k with cedilla	Latin Extended-A
0137	ƙ	kcommaaccent	latin small letter k with cedilla	Latin Extended-A
0138	ƚ	kgreenlandic	latin small letter kra	Latin Extended-A
0139	Ł	Lacute	latin capital letter l with acute	Latin Extended-A
013A	ł	lacute	latin small letter l with acute	Latin Extended-A
013B	Ɔ	Lcommaaccent	latin capital letter l with cedilla	Latin Extended-A
013C	ƙ	lcommaaccent	latin small letter l with cedilla	Latin Extended-A
013D	Ł	Lcaron	latin capital letter l with caron	Latin Extended-A
013E	ł	lcaron	latin small letter l with caron	Latin Extended-A
013F	Ł	Ldot	latin capital letter l with middle dot	Latin Extended-A
0140	ł	ldot	latin small letter l with middle dot	Latin Extended-A
0141	Ł	Lslash	latin capital letter l with stroke	Latin Extended-A
0142	ł	lslash	latin small letter l with stroke	Latin Extended-A
0143	Ń	Nacute	latin capital letter n with acute	Latin Extended-A
0144	ń	nacute	latin small letter n with acute	Latin Extended-A
0145	Ɔ	Ncommaaccent	latin capital letter n with cedilla	Latin Extended-A
0146	ƙ	ncommaaccent	latin small letter n with cedilla	Latin Extended-A
0147	Ń	Ncaron	latin capital letter n with caron	Latin Extended-A
0148	ň	ncaron	latin small letter n with caron	Latin Extended-A
0149	ƚ	napostrophe	latin small letter n preceded by apostrophe	Latin Extended-A
014A	Ɔ	Eng	latin capital letter eng	Latin Extended-A
014B	ɱ	eng	latin small letter eng	Latin Extended-A
014C	Ō	Omacron	latin capital letter o with macron	Latin Extended-A
014D	ō	omacron	latin small letter o with macron	Latin Extended-A
014E	Ȫ	Obreve	latin capital letter o with breve	Latin Extended-A
014F	ȯ	obreve	latin small letter o with breve	Latin Extended-A
0150	Ő	Ohungarumlaut	latin capital letter o with double acute	Latin Extended-A
0151	ő	ohungarumlaut	latin small letter o with double acute	Latin Extended-A

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Unicode	Shape	Glyph name	Unicode Name	Unicode Block
0152	Œ	OE	latin capital ligature oe	Latin Extended-A
0153	œ	oe	latin small ligature oe	Latin Extended-A
0154	Ŕ	Racute	latin capital letter r with acute	Latin Extended-A
0155	ŕ	racute	latin small letter r with acute	Latin Extended-A
0156	Ŗ	Rcommaaccent	latin capital letter r with cedilla	Latin Extended-A
0157	ŗ	rcommaaccent	latin small letter r with cedilla	Latin Extended-A
0158	Ř	Rcaron	latin capital letter r with caron	Latin Extended-A
0159	ř	rcaron	latin small letter r with caron	Latin Extended-A
015A	Ś	Sacute	latin capital letter s with acute	Latin Extended-A
015B	ś	sacute	latin small letter s with acute	Latin Extended-A
015C	Ŝ	Scircumflex	latin capital letter s with circumflex	Latin Extended-A
015D	ŝ	scircumflex	latin small letter s with circumflex	Latin Extended-A
015E	Ş	Scedilla	latin capital letter s with cedilla	Latin Extended-A
015F	ş	scedilla	latin small letter s with cedilla	Latin Extended-A
0160	Š	Scaron	latin capital letter s with caron	Latin Extended-A
0161	š	scaron	latin small letter s with caron	Latin Extended-A
0162	Ţ	Tcommaaccent	latin capital letter t with cedilla	Latin Extended-A
0163	ţ	tcommaaccent	latin small letter t with cedilla	Latin Extended-A
0164	Ť	Tcaron	latin capital letter t with caron	Latin Extended-A
0165	ť	tcaron	latin small letter t with caron	Latin Extended-A
0166	Ʀ	Tbar	latin capital letter t with stroke	Latin Extended-A
0167	ƥ	tbar	latin small letter t with stroke	Latin Extended-A
0168	Ŭ	Utilde	latin capital letter u with tilde	Latin Extended-A
0169	ũ	utilde	latin small letter u with tilde	Latin Extended-A
016A	Ū	Umacron	latin capital letter u with macron	Latin Extended-A
016B	ū	umacron	latin small letter u with macron	Latin Extended-A
016C	Ů	Ubreve	latin capital letter u with breve	Latin Extended-A
016D	ů	ubreve	latin small letter u with breve	Latin Extended-A
016E	Ű	Uring	latin capital letter u with ring above	Latin Extended-A
016F	ű	uring	latin small letter u with ring above	Latin Extended-A
0170	Ű	Uhungarumlaut	latin capital letter u with double acute	Latin Extended-A
0171	ű	uhungarumlaut	latin small letter u with double acute	Latin Extended-A
0172	Ų	Uogonek	latin capital letter u with ogonek	Latin Extended-A
0173	ų	uogonek	latin small letter u with ogonek	Latin Extended-A
0174	Ŵ	Wcircumflex	latin capital letter w with circumflex	Latin Extended-A

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Unicode	Shape	Glyph name	Unicode Name	Unicode Block
0175	Ŵ	wcircumflex	latin small letter w with circumflex	Latin Extended-A
0176	Ŷ	Ycircumflex	latin capital letter y with circumflex	Latin Extended-A
0177	ŷ	ycircumflex	latin small letter y with circumflex	Latin Extended-A
0178	ÿ	Ydieresis	latin capital letter y with diaeresis	Latin Extended-A
0179	Ź	Zacute	latin capital letter z with acute	Latin Extended-A
017A	ź	zacute	latin small letter z with acute	Latin Extended-A
017B	Ż	Zdotaccent	latin capital letter z with dot above	Latin Extended-A
017C	ż	zdotaccent	latin small letter z with dot above	Latin Extended-A
017D	Ž	Zcaron	latin capital letter z with caron	Latin Extended-A
017E	ž	zcaron	latin small letter z with caron	Latin Extended-A
017F	ƒ	longs	latin small letter long s	Latin Extended-A
0192	ƒ	florin	latin small letter f with hook	Latin Extended-B
01FA	Ā	Aringacute	latin capital letter a with ring above and acute	Latin Extended-B
01FB	ā	aringacute	latin small letter a with ring above and acute	Latin Extended-B
01FC	Æ	AEacute	latin capital letter ae with acute	Latin Extended-B
01FD	æ	aeacute	latin small letter ae with acute	Latin Extended-B
01FE	Ø	Oslashacute	latin capital letter o with stroke and acute	Latin Extended-B
01FF	ø	oslashacute	latin small letter o with stroke and acute	Latin Extended-B
02C6	ˆ	circumflex	modifier letter circumflex accent	Spacing Modifier Letters
02C7	ˇ	caron	caron	Spacing Modifier Letters
02C9	ˉ	uni02C9	modifier letter macron	Spacing Modifier Letters
02D8	˘	breve	breve	Spacing Modifier Letters
02D9	˙	dotaccent	dot above	Spacing Modifier Letters
02DA	˚	ring	ring above	Spacing Modifier Letters
02DB	˛	ogonek	ogonek	Spacing Modifier Letters
02DC	˜	tilde	small tilde	Spacing Modifier Letters
02DD	˝	hungarumlaut	double acute accent	Spacing Modifier Letters
0384	ˊ	tonos	greek tonos	Greek and Coptic
0385	ˋ	dieresistonos	greek dialytika tonos	Greek and Coptic
0386	Α	Alphatonos	greek capital letter alpha with tonos	Greek and Coptic
0387	·	anoteleia	greek ano teleia	Greek and Coptic
0388	Ε	Epsilontonos	greek capital letter epsilon with tonos	Greek and Coptic
0389	Η	Etatonos	greek capital letter eta with tonos	Greek and Coptic
038A	Ι	Iotatonos	greek capital letter iota with tonos	Greek and Coptic
038C	Ο	Omicrontonos	greek capital letter omicron with tonos	Greek and Coptic

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Unicode	Shape	Glyph name	Unicode Name	Unicode Block
038E	Υ	Upsilon-tonos	greek capital letter upsilon with tonos	Greek and Coptic
038F	Ω	Omegatonos	greek capital letter omega with tonos	Greek and Coptic
0390	ϊ	iotadieresis-tonos	greek small letter iota with dialytika and tonos	Greek and Coptic
0391	Α	Alpha	greek capital letter alpha	Greek and Coptic
0392	Β	Beta	greek capital letter beta	Greek and Coptic
0393	Γ	Gamma	greek capital letter gamma	Greek and Coptic
0394	Δ	uni0394	greek capital letter delta	Greek and Coptic
0395	Ε	Epsilon	greek capital letter epsilon	Greek and Coptic
0396	Ζ	Zeta	greek capital letter zeta	Greek and Coptic
0397	Η	Eta	greek capital letter eta	Greek and Coptic
0398	Θ	Theta	greek capital letter theta	Greek and Coptic
0399	Ι	Iota	greek capital letter iota	Greek and Coptic
039A	Κ	Kappa	greek capital letter kappa	Greek and Coptic
039B	Λ	Lambda	greek capital letter lamda	Greek and Coptic
039C	Μ	Mu	greek capital letter mu	Greek and Coptic
039D	Ν	Nu	greek capital letter nu	Greek and Coptic
039E	Ξ	Xi	greek capital letter xi	Greek and Coptic
039F	Ο	Omicron	greek capital letter omicron	Greek and Coptic
03A0	Π	Pi	greek capital letter pi	Greek and Coptic
03A1	Ρ	Rho	greek capital letter rho	Greek and Coptic
03A3	Σ	Sigma	greek capital letter sigma	Greek and Coptic
03A4	Τ	Tau	greek capital letter tau	Greek and Coptic
03A5	Υ	Upsilon	greek capital letter upsilon	Greek and Coptic
03A6	Φ	Phi	greek capital letter phi	Greek and Coptic
03A7	Χ	Chi	greek capital letter chi	Greek and Coptic
03A8	Ψ	Psi	greek capital letter psi	Greek and Coptic
03A9	Ω	uni03A9	greek capital letter omega	Greek and Coptic
03AA	ϊ	lotadieresis	greek capital letter iota with dialytika	Greek and Coptic
03AB	Υ̂	Upsilondieresis	greek capital letter upsilon with dialytika	Greek and Coptic
03AC	ά	alphatonos	greek small letter alpha with tonos	Greek and Coptic
03AD	έ	epsilontonos	greek small letter epsilon with tonos	Greek and Coptic
03AE	ή	etatonos	greek small letter eta with tonos	Greek and Coptic
03AF	ί	iotatonos	greek small letter iota with tonos	Greek and Coptic
03B0	ϋ	upsilondieresis-tonos	greek small letter upsilon with dialytika and tonos	Greek and Coptic
03B1	α	alpha	greek small letter alpha	Greek and Coptic

# WGL Character Set

Unicode	Shape	Glyph name	Unicode Name	Unicode Block
03B2	β	beta	greek small letter beta	Greek and Coptic
03B3	γ	gamma	greek small letter gamma	Greek and Coptic
03B4	δ	delta	greek small letter delta	Greek and Coptic
03B5	ε	epsilon	greek small letter epsilon	Greek and Coptic
03B6	ζ	zeta	greek small letter zeta	Greek and Coptic
03B7	η	eta	greek small letter eta	Greek and Coptic
03B8	θ	theta	greek small letter theta	Greek and Coptic
03B9	ι	iota	greek small letter iota	Greek and Coptic
03BA	κ	kappa	greek small letter kappa	Greek and Coptic
03BB	λ	lambda	greek small letter lamda	Greek and Coptic
03BC	μ	uni03BC	greek small letter mu	Greek and Coptic
03BD	ν	nu	greek small letter nu	Greek and Coptic
03BE	ξ	xi	greek small letter xi	Greek and Coptic
03BF	ο	omicron	greek small letter omicron	Greek and Coptic
03C0	π	pi	greek small letter pi	Greek and Coptic
03C1	ρ	rho	greek small letter rho	Greek and Coptic
03C2	ς	sigma1	greek small letter final sigma	Greek and Coptic
03C3	σ	sigma	greek small letter sigma	Greek and Coptic
03C4	τ	tau	greek small letter tau	Greek and Coptic
03C5	υ	upsilon	greek small letter upsilon	Greek and Coptic
03C6	φ	phi	greek small letter phi	Greek and Coptic
03C7	χ	chi	greek small letter chi	Greek and Coptic
03C8	ψ	psi	greek small letter psi	Greek and Coptic
03C9	ω	omega	greek small letter omega	Greek and Coptic
03CA	ϊ	iotadieresis	greek small letter iota with dialytika	Greek and Coptic
03CB	ϋ	upsilondieresis	greek small letter upsilon with dialytika	Greek and Coptic
03CC	ό	omicrontonos	greek small letter omicron with tonos	Greek and Coptic
03CD	ύ	upsilontonos	greek small letter upsilon with tonos	Greek and Coptic
03CE	ώ	omegatonos	greek small letter omega with tonos	Greek and Coptic
0401	Ё	afii10023	cyrillic capital letter io	Cyrillic
0402	Ђ	afii10051	cyrillic capital letter dje	Cyrillic
0403	Ѓ	afii10052	cyrillic capital letter gje	Cyrillic
0404	Є	afii10053	cyrillic capital letter ukrainian ie	Cyrillic
0405	Є	afii10054	cyrillic capital letter dze	Cyrillic
0406	І	afii10055	cyrillic capital letter byelorussian-ukrainian i	Cyrillic

# WGL Character Set

Unicode	Shape	Glyph name	Unicode Name	Unicode Block
0407	Ѐ	afii10056	cyrillic capital letter yi	Cyrillic
0408	Ј	afii10057	cyrillic capital letter je	Cyrillic
0409	Љ	afii10058	cyrillic capital letter lje	Cyrillic
040A	Њ	afii10059	cyrillic capital letter nje	Cyrillic
040B	Ѧ	afii10060	cyrillic capital letter tshe	Cyrillic
040C	Ќ	afii10061	cyrillic capital letter kje	Cyrillic
040E	Ѹ	afii10062	cyrillic capital letter short u	Cyrillic
040F	Ѻ	afii10145	cyrillic capital letter dzhe	Cyrillic
0410	А	afii10017	cyrillic capital letter a	Cyrillic
0411	Б	afii10018	cyrillic capital letter be	Cyrillic
0412	В	afii10019	cyrillic capital letter ve	Cyrillic
0413	Г	afii10020	cyrillic capital letter ghe	Cyrillic
0414	Д	afii10021	cyrillic capital letter de	Cyrillic
0415	Е	afii10022	cyrillic capital letter ie	Cyrillic
0416	Ж	afii10024	cyrillic capital letter zhe	Cyrillic
0417	З	afii10025	cyrillic capital letter ze	Cyrillic
0418	И	afii10026	cyrillic capital letter i	Cyrillic
0419	Й	afii10027	cyrillic capital letter short i	Cyrillic
041A	К	afii10028	cyrillic capital letter ka	Cyrillic
041B	Л	afii10029	cyrillic capital letter el	Cyrillic
041C	М	afii10030	cyrillic capital letter em	Cyrillic
041D	Н	afii10031	cyrillic capital letter en	Cyrillic
041E	О	afii10032	cyrillic capital letter o	Cyrillic
041F	П	afii10033	cyrillic capital letter pe	Cyrillic
0420	Р	afii10034	cyrillic capital letter er	Cyrillic
0421	С	afii10035	cyrillic capital letter es	Cyrillic
0422	Т	afii10036	cyrillic capital letter te	Cyrillic
0423	У	afii10037	cyrillic capital letter u	Cyrillic
0424	Ф	afii10038	cyrillic capital letter ef	Cyrillic
0425	Х	afii10039	cyrillic capital letter ha	Cyrillic
0426	Ц	afii10040	cyrillic capital letter tse	Cyrillic
0427	Ч	afii10041	cyrillic capital letter che	Cyrillic
0428	Ш	afii10042	cyrillic capital letter sha	Cyrillic
0429	Щ	afii10043	cyrillic capital letter shcha	Cyrillic
042A	Ъ	afii10044	cyrillic capital letter hard sign	Cyrillic

# WGL Character Set

Unicode	Shape	Glyph name	Unicode Name	Unicode Block
042B	Ы	afii10045	cyrillic capital letter yeru	Cyrillic
042C	Ь	afii10046	cyrillic capital letter soft sign	Cyrillic
042D	Э	afii10047	cyrillic capital letter e	Cyrillic
042E	Ю	afii10048	cyrillic capital letter yu	Cyrillic
042F	Я	afii10049	cyrillic capital letter ya	Cyrillic
0430	а	afii10065	cyrillic small letter a	Cyrillic
0431	б	afii10066	cyrillic small letter be	Cyrillic
0432	в	afii10067	cyrillic small letter ve	Cyrillic
0433	г	afii10068	cyrillic small letter ghe	Cyrillic
0434	д	afii10069	cyrillic small letter de	Cyrillic
0435	е	afii10070	cyrillic small letter ie	Cyrillic
0436	ж	afii10072	cyrillic small letter zhe	Cyrillic
0437	з	afii10073	cyrillic small letter ze	Cyrillic
0438	и	afii10074	cyrillic small letter i	Cyrillic
0439	й	afii10075	cyrillic small letter short i	Cyrillic
043A	к	afii10076	cyrillic small letter ka	Cyrillic
043B	л	afii10077	cyrillic small letter el	Cyrillic
043C	м	afii10078	cyrillic small letter em	Cyrillic
043D	н	afii10079	cyrillic small letter en	Cyrillic
043E	о	afii10080	cyrillic small letter o	Cyrillic
043F	п	afii10081	cyrillic small letter pe	Cyrillic
0440	р	afii10082	cyrillic small letter er	Cyrillic
0441	с	afii10083	cyrillic small letter es	Cyrillic
0442	т	afii10084	cyrillic small letter te	Cyrillic
0443	у	afii10085	cyrillic small letter u	Cyrillic
0444	ф	afii10086	cyrillic small letter ef	Cyrillic
0445	х	afii10087	cyrillic small letter ha	Cyrillic
0446	ц	afii10088	cyrillic small letter tse	Cyrillic
0447	ч	afii10089	cyrillic small letter che	Cyrillic
0448	ш	afii10090	cyrillic small letter sha	Cyrillic
0449	щ	afii10091	cyrillic small letter shcha	Cyrillic
044A	ъ	afii10092	cyrillic small letter hard sign	Cyrillic
044B	ы	afii10093	cyrillic small letter yeru	Cyrillic
044C	ь	afii10094	cyrillic small letter soft sign	Cyrillic
044D	э	afii10095	cyrillic small letter e	Cyrillic

# WGL Character Set

Unicode	Shape	Glyph name	Unicode Name	Unicode Block
044E	Ю	afii10096	cyrillic small letter yu	Cyrillic
044F	Я	afii10097	cyrillic small letter ya	Cyrillic
0451	ё	afii10071	cyrillic small letter io	Cyrillic
0452	ђ	afii10099	cyrillic small letter dje	Cyrillic
0453	ѓ	afii10100	cyrillic small letter gje	Cyrillic
0454	є	afii10101	cyrillic small letter ukrainian ie	Cyrillic
0455	ѕ	afii10102	cyrillic small letter dze	Cyrillic
0456	і	afii10103	cyrillic small letter byelorussian-ukrainian i	Cyrillic
0457	ї	afii10104	cyrillic small letter yi	Cyrillic
0458	ј	afii10105	cyrillic small letter je	Cyrillic
0459	љ	afii10106	cyrillic small letter lje	Cyrillic
045A	њ	afii10107	cyrillic small letter nje	Cyrillic
045B	ћ	afii10108	cyrillic small letter tshe	Cyrillic
045C	ќ	afii10109	cyrillic small letter kje	Cyrillic
045E	ў	afii10110	cyrillic small letter short u	Cyrillic
045F	џ	afii10193	cyrillic small letter dzhe	Cyrillic
0490	Ґ	afii10050	cyrillic capital letter ghe with upturn	Cyrillic
0491	ґ	afii10098	cyrillic small letter ghe with upturn	Cyrillic
1E80	Ŵ	Wgrave	latin capital letter w with grave	Latin Extended Additional
1E81	ŵ	wgrave	latin small letter w with grave	Latin Extended Additional
1E82	Ŷ	Wacute	latin capital letter w with acute	Latin Extended Additional
1E83	ŷ	wacute	latin small letter w with acute	Latin Extended Additional
1E84	Ÿ	Wdieresis	latin capital letter w with diaeresis	Latin Extended Additional
1E85	ÿ	wdieresis	latin small letter w with diaeresis	Latin Extended Additional
1EF2	Ỳ	Ygrave	latin capital letter y with grave	Latin Extended Additional
1EF3	ỳ	ygrave	latin small letter y with grave	Latin Extended Additional
2013	—	endash	en dash	General Punctuation
2014	—	emdash	em dash	General Punctuation
2015	—	afii00208	horizontal bar	General Punctuation
2017	=	underscoredbl	double low line	General Punctuation
2018	‘	quoteleft	left single quotation mark	General Punctuation
2019	’	quoteright	right single quotation mark	General Punctuation
201A	,	quotesingbase	single low-9 quotation mark	General Punctuation
201B	’	quotereversed	single high-reversed-9 quotation mark	General Punctuation
201C	“	quotedblleft	left double quotation mark	General Punctuation

# WGL Character Set

Unicode	Shape	Glyph name	Unicode Name	Unicode Block
201D	”	quotedblright	right double quotation mark	General Punctuation
201E	„	quotedblbase	double low-9 quotation mark	General Punctuation
2020	†	dagger	dagger	General Punctuation
2021	‡	daggerdbl	double dagger	General Punctuation
2022	•	bullet	bullet	General Punctuation
2026	…	ellipsis	horizontal ellipsis	General Punctuation
2030	‰	perthousand	per mille sign	General Punctuation
2032	'	minute	prime	General Punctuation
2033	”	second	double prime	General Punctuation
2039	‹	guilsinglleft	single left-pointing angle quotation mark	General Punctuation
203A	›	guilsinglright	single right-pointing angle quotation mark	General Punctuation
203C	!!	exclamdbl	double exclamation mark	General Punctuation
203E	–	uni203E	overline	General Punctuation
2044	/	fraction	fraction slash	General Punctuation
207F	ⁿ	uni207F	superscript latin small letter n	Superscripts And Subscripts
20A3	₣	franc	french franc sign	Currency Symbols
20A4	₤	lira	lira sign	Currency Symbols
20A7	₧	peseta	peseta sign	Currency Symbols
20AC	€	Euro	euro sign	Currency Symbols
2105	‰	afii61248	care of	Letterlike Symbols
2113	ℓ	afii61289	script small l	Letterlike Symbols
2116	№	afii61352	numero sign	Letterlike Symbols
2122	™	trademark	trade mark sign	Letterlike Symbols
2126	Ω	Omega	ohm sign	Letterlike Symbols
212E	₯	estimated	estimated symbol	Letterlike Symbols
215B	⅛	oneeighth	vulgar fraction one eighth	Number Forms
215C	⅜	threeeighths	vulgar fraction three eighths	Number Forms
215D	⅝	fiveeighths	vulgar fraction five eighths	Number Forms
215E	⅞	seveneighths	vulgar fraction seven eighths	Number Forms
2190	←	arrowleft	leftwards arrow	Arrows
2191	↑	arrowup	upwards arrow	Arrows
2192	→	arrowright	rightwards arrow	Arrows
2193	↓	arrowdown	downwards arrow	Arrows
2194	↔	arrowboth	left right arrow	Arrows
2195	↕	arrowupdn	up down arrow	Arrows




























# WGL Character Set

Unicode	Shape	Glyph name	Unicode Name	Unicode Block
21A8	↕	arrowupdnbse **	up down arrow with base	Arrows
2202	∂	partialdiff	partial differential	Mathematical Operators
2206	Δ	Delta	increment	Mathematical Operators
220F	∏	product	n-ary product	Mathematical Operators
2211	∑	summation	n-ary summation	Mathematical Operators
2212	−	minus	minus sign	Mathematical Operators
2215	/	uni2215	division slash	Mathematical Operators
2219	·	uni2219	bullet operator	Mathematical Operators
221A	√	radical	square root	Mathematical Operators
221E	∞	infinity	infinity	Mathematical Operators
221F	⊥	orthogonal	right angle	Mathematical Operators
2229	∩	intersection	intersection	Mathematical Operators
222B	∫	integral	integral	Mathematical Operators
2248	≈	approxequal	almost equal to	Mathematical Operators
2260	≠	notequal	not equal to	Mathematical Operators
2261	≡	equivalence	identical to	Mathematical Operators
2264	≤	lessequal	less-than or equal to	Mathematical Operators
2265	≥	greaterequal	greater-than or equal to	Mathematical Operators
2302	⏏	house **	house	Miscellaneous Technical
2310	⌞	revlogicalnot **	reversed not sign	Miscellaneous Technical
2320	∫	integraltp **	top half integral	Miscellaneous Technical
2321	∫	integralbt **	bottom half integral	Miscellaneous Technical
2500	—	SF100000	box drawings light horizontal	Box Drawing
2502		SF110000	box drawings light vertical	Box Drawing
250C	└	SF010000	box drawings light down and right	Box Drawing
2510	└	SF030000	box drawings light down and left	Box Drawing
2514	└	SF020000	box drawings light up and right	Box Drawing
2518	└	SF040000	box drawings light up and left	Box Drawing
251C	└	SF080000	box drawings light vertical and right	Box Drawing
2524	└	SF090000	box drawings light vertical and left	Box Drawing
252C	└	SF060000	box drawings light down and horizontal	Box Drawing
2534	└	SF070000	box drawings light up and horizontal	Box Drawing
253C	└	SF050000	box drawings light vertical and horizontal	Box Drawing
2550	═	SF430000	box drawings double horizontal	Box Drawing
2551	║	SF240000	box drawings double vertical	Box Drawing

# WGL Character Set

Unicode	Shape	Glyph name	Unicode Name	Unicode Block
2552		SF510000	box drawings down single and right double	Box Drawing
2553		SF520000	box drawings down double and right single	Box Drawing
2554		SF390000	box drawings double down and right	Box Drawing
2555		SF220000	box drawings down single and left double	Box Drawing
2556		SF210000	box drawings down double and left single	Box Drawing
2557		SF250000	box drawings double down and left	Box Drawing
2558		SF500000	box drawings up single and right double	Box Drawing
2559		SF490000	box drawings up double and right single	Box Drawing
255A		SF380000	box drawings double up and right	Box Drawing
255B		SF280000	box drawings up single and left double	Box Drawing
255C		SF270000	box drawings up double and left single	Box Drawing
255D		SF260000	box drawings double up and left	Box Drawing
255E		SF360000	box drawings vertical single and right double	Box Drawing
255F		SF370000	box drawings vertical double and right single	Box Drawing
2560		SF420000	box drawings double vertical and right	Box Drawing
2561		SF190000	box drawings vertical single and left double	Box Drawing
2562		SF200000	box drawings vertical double and left single	Box Drawing
2563		SF230000	box drawings double vertical and left	Box Drawing
2564		SF470000	box drawings down single and horizontal double	Box Drawing
2565		SF480000	box drawings down double and horizontal single	Box Drawing
2566		SF410000	box drawings double down and horizontal	Box Drawing
2567		SF450000	box drawings up single and horizontal double	Box Drawing
2568		SF460000	box drawings up double and horizontal single	Box Drawing
2569		SF400000	box drawings double up and horizontal	Box Drawing
256A		SF540000	box drawings vertical single and horizontal double	Box Drawing
256B		SF530000	box drawings vertical double and horizontal single	Box Drawing
256C		SF440000	box drawings double vertical and horizontal	Box Drawing
2580		upblock **	upper half block	Block Elements
2584		dnblock	lower half block	Block Elements
2588		block	full block	Block Elements
258C		lfblock	left half block	Block Elements
2590		rtblock **	right half block	Block Elements
2591		ltshade **	light shade	Block Elements
2592		shade	medium shade	Block Elements

# WGL Character Set

Unicode	Shape	Glyph name	Unicode Name	Unicode Block
2593		dkshade	dark shade	Block Elements
25A0		filledbox	black square	Geometric Shapes
25A1		H22073	white square	Geometric Shapes
25AA		H18543	black small square	Geometric Shapes
25AB		H18551	white small square	Geometric Shapes
25AC		filledrect **	black rectangle	Geometric Shapes
25B2		triagup	black up-pointing triangle	Geometric Shapes
25BA		triagrt **	black right-pointing pointer	Geometric Shapes
25BC		triagdn	black down-pointing triangle	Geometric Shapes
25C4		triaglf **	black left-pointing pointer	Geometric Shapes
25CA		lozenge	lozenge	Geometric Shapes
25CB		circle	white circle	Geometric Shapes
25CF		H18533	black circle	Geometric Shapes
25D8		invbullet **	inverse bullet	Geometric Shapes
25D9		invcircle **	inverse white circle	Geometric Shapes
25E6		openbullet	white bullet	Geometric Shapes
263A		smileface **	white smiling face	Miscellaneous Symbols
263B		invsmileface **	black smiling face	Miscellaneous Symbols
263C		sun **	white sun with rays	Miscellaneous Symbols
2640		female	female sign	Miscellaneous Symbols
2642		male	male sign	Miscellaneous Symbols
2660		spade	black spade suit	Miscellaneous Symbols
2663		club	black club suit	Miscellaneous Symbols
2665		heart	black heart suit	Miscellaneous Symbols
2666		diamond **	black diamond suit	Miscellaneous Symbols
266A		musicalnote	eighth note	Miscellaneous Symbols
266B		musicalnotedbl **	beamed eighth notes	Miscellaneous Symbols
FB01	<b>fi</b>	uniFB01	latin small ligature fi	Alphabetic Presentation Forms
FB02	<b>fl</b>	uniFB02	latin small ligature fl	Alphabetic Presentation Forms

\*\* Denotes an optional character.

The information in this chart is provided courtesy of [Microsoft Typography](https://www.microsoft.com/typography/).