Mup Version 7.1 Statement Summary

context

*staffs voices & staffs voices***:** *chord* **;** *....*

[*staffs voices & staffs voices***;** *staffs voices***] :** *chord* **;** *....*

lyrics *place staff* **using** *staff voice***:** *time_valuelist* **[** *verses* **] "***text***";** *...*

linetype bartype **pad** *num ending_mark* **rehearsal** *fontfamily font* **(***size***)** *rehearsal_mark* **mnum=***num* **=***tag* **hidechanges**

*parameter***=***value*

multirest *num*

newscore leftmargin=*num* **rightmargin=***num*

newpage leftmargin=*num* **rightmargin=***num*

samescorebegin *....measures of input...* **samescoreend**

samepagebegin *....measures of input or blocks...* **samepageend**

fontfamily font **(***size***)** *modifier place staffs* **dist** *num* **! align** *num* **:** *beat* **"***text* **("***text***") til** *til_value***;** *....*

mussym (*size***)** *place staffs* **:** *beat* **"***mus_symbol***" til** *til_value***;** *....*

linetype **phrase** *place staffs* **:** *beat* **til** *til_value***;** *....*

octave *place staffs* **:** *beat* **"***text***" til** *til_value***;** *....*

pedal *place staffs* **:** *beat* *** ;** *....*

cres_mark place staffs **:** *beat* **til** *til_value***;** *....*

midi *staffs voices* **:** *beat* **"***midi_keyword***=***value***" til** *til_value***;** *....*

roll *direction staffnum voicenum* **to** *staffnum voicenum* **:** *num* **;** *....*

printcmd location **"***text***"**

postscript *postscript_location* **with** *tag* **=** *tag* **file "***text***"**

mirrored title *fontfamily font* **(***size***) "***text***" "***text***" "***text***"**

justifytype **paragraph** *fontfamily font* **(***size***) "***text***"**

linetype **line** *location* **to** *location* **with** *fontfamily font* **(***size***) "***text***"**

linetype **curve** *location* **to** *location* **to** *location ....*

linetype **curve** *location* **to** *location* **bulge** *num ....*

define *MACRO_NAME***(***mac_params***)** *macro_definition* @

ifdef *MACRO_NAME .....* **else** *.....* **endif**

ifndef *MACRO_NAME .....* **else** *.....* **endif**

undef *MACRO_NAME*

eval *MACRO_NAME* **=** *expression* @

exit

savemacros "*name***"**

restoremacros "*name***"**

if *expression .....* **else** *.....* **endif**

include "*filename***"**

fontfile "*filename***"**

// *comment—arbitrary text that will be ignored.*

Values used in Mup statements

accidental	**#**, **&**, **x**, **&&**, **n** or **{"***acc_name***"}**	
acc_spec	accidental symbol name in quotes followed by *pitch_spec*	
bartype	**bar**, **dblbar**, **repeatstart**, **repeatend**, **repeatboth**, **endbar**, **invisbar**, or **restart**	
beat	number from 0.0 to time signature denominator plus 1.0, optionally followed	
	by how many grace notes to back up from there, as a negative number in parentheses,	
	and an offset as a signed number in square brackets	
chord	**<<***parm_contxt parameter*=*value***>>** **[***chord_style***]** *time_value pitch(es) note_attributes inter-chord_attr*	
	Tuplets specified by **{** *chord* **;** .... **}** *side num tupstyle, time_value* **slope** *num***;**	
	On tablature staff, the *pitch* is: *string fret* **"***bend***"**	
bend	**full**, or *num* and/or a fraction as *num***/***num*	
chord_style	one or more (semicolon-separated) from the following:	
	grace, **cue**, **xnote**, **diam**, **with** *withlist*, **pad** *num*, **slash** *num*, *stemdir*, **len** *num*, **dist** *num*,	
	ho *num*, **hs** **"***headshape***"**, or **=***tag*	
	Putting **...** after the **]** will repeat the *chord_style* until **[-]** or end of measure.	
clef	**treble**, **soprano**, **mezzosoprano**, **alto**, **8bass** (these have default octave of 4)	
	treble8, **tenor**, **baritone**, **bass** (these have default octave of 3)	
	frenchviolin, **8treble** (these have default octave of 5)	
	bass8, **subbass** (these have default octave of 2)	
control_command	**saveparms "***name***"** or **restoreparms "***name***"**	
context	One of the following:	
	parm_context	followed by list of parameters
	acctable "*acc_table_name***"**	followed by *acc_spec*
	control	followed by *control_commands*
	music	followed by commands for printing music
	headfoot_context	followed by commands for printing text
	block	followed by **paragraph** commands
	grids	followed by pairs of strings: name and frets
	headshapes	followed by pairs of strings: name and list of 4 note head characters
	keymap "*keymap_name***"**	followed by pairs of strings: pattern and replacement
	shapes "*shapes_name***"**	followed by pairs of strings; symbol name and replacement
	symbol	followed by
		bbox=*num***,***num***,***num***,***num*
		postscript="*text***"**
		ystemoffset=*num***,***num*
cres_mark	**<** (crescendo) or **>** (decrescendo)	
direction	**up** or **down**	
ending_mark	**ending "***text***"** or **endending** or **openendending** or **closedendending**	
expression	see operator table on page 5	
filename	path to a file on your system; uses MUPPATH to find, if not in current directory	
	and not absolute path	
font	**rom**, **ital**, **bold**, or **boldital**	
fontfamily	**avantgarde**, **bookman**, **courier**, **helvetica**, **newcentury**, **palatino, or times**	
fret	number from 0 to 99	
headfoot_context	**header, footer, header2, footer2, top, bottom, top2,** or **bottom2**	
hex_data	even number of hexadecimal digits	
inter-chord_attr	*tieslur_style* **tie** *direction*, *tieslur_style* **slur** *direction*, **bm**, **bm with staff** *side*, **ebm**, **esbm**,	
	abm, **eabm**, **slope** *num*, **ph** *side*, **eph**, or **alt** *num*	
interval	**perfect**, **major**, **minor**, **augmented**, or **diminished**	
justifytype	**justified**, or **ragged**	
linetype	**medium**, **wide**, **dashed**, or **dotted** (if omitted, *linetype* is narrow)	
location	**(***x_expr, y_expr* **)** can contain *tag*, *steps*, **time** *num*, **sqrt**, **sin**, **cos**, **tan**, **asin**, **acos**, **atan**, **atan2**, **hypot**	
mac_params	comma-separated list of parameter names, same naming rules as *MACRO_NAME*	
MACRO_NAME	upper case letters, digits, and/or underscores, beginning with a letter	
macro_definition	arbitrary text that will be used wherever *MACRO_NAME* appears in input	

midi_keyword **tempo=***num* **program=***num* **parameter=***num***,***num* **port=***num*
onvelocity=*num* **offvelocity=***num* **channel=***num* **chanpressure=***num*
seqnum=*num* **text=***text* **copyright=***text* **name=***text*
instrument=*num* **marker=***text* **cue=***text* **hex=***hex_data*

modifier **chord**, **analysis**, **figbass**, or omitted

mus_symbol musical symbol; see chart on page 8 for complete list.

note_attributes one or more of the following: *tieslur_style* **~** *direction* (tie), *tieslur_style* **< >** *direction) (slur),*
? (small), **^***pitch* (bend), **hs "***headshape***"**, **_"***text***"** or **=***tag*

num some number; valid values depend on where it appears

octave number from **0** to **9** or one or more **+** or **-** signs

parameter See parameter table on page 5 for complete list

parm_context **score** or **staff** *num(s)* or **voice** *staffnum(s) voicenum(s)*

pitch letter from **a** to **g**, optionally followed by *accidental* and/or *octave*,
or **r** (rest), **s** (space), **us** (uncollapseable space), or **rpt** (repeat)

pitch_adjustment **+***num* **cents**
or **-***num* **cents**
or *num* **/** *num*
or *num*

pitch_spec **all** *pitch_adjustment*
or one or more instances of a letter a-g followed by a *pitch_adjustment*

place **above**, **below**, or **between**. If **between**, *staffs* must be of the form *num***&***num*

printcmd **left**, **right**, **center**, or **print**

postscript_location *location* or **afterprolog**, **beforetrailer**, **atpagebegin**, **atpageend**, **atscorebegin**, or **atscoreend**

rehearsal_mark **let**, **num**, **mnum**, or **"***text***"**

side **above** or **below**

size number from 1 to 100 (points)

staffnum number from 1 to 40

staffs number from 1 to 40, or comma-separated list of dash-separated ranges

stemdir **up** or **down**

stemlen a number, in stepsizes

steps a number of stepsizes, where a stepsize is 1/2 the distance between two staff lines

string in tablature chord: *pitch accidental* followed by zero or more **'** marks

tab_string list of tablature strings. Each includes a *pitch*, optional **'** marks, and optional *octave.*

tag a lower case letter, or an underscore followed by lower case letters, digits, and/or underscores
Each has 6 associated values: **x**, **y**, **n**, **s**, **e**, and **w**
Predefined tag names are **_win**, **_page**, **_score**, **_staff.***N* and **_cur**

text arbitrary text; use **\"** to include quotes, **\f(***fontfamily font***)** to change font, **\s(***num***)** to change size,
\(*xx***)** to include special characters, **\v(***num***)** for vertical motion, **\:** to toggle piling, **\|** or **\^** for alignment

time_value **1/8**, **1/4**, **1/2**, **1**, **2**, **4**, **8**, **16**, **32**, **64**, **128**, or **256** with optional dots, **+** or **-**; or **m** (measure)
or (only with rpt) **dbl m** or **quad m**

tieslur_style **dotted**, **dashed**, or omitted

til_value *num* or *num***m+***num*, plus optional **(-***num***)** and/or signed *steps* in square brackets

tuplet See *chord*

tupstyle **y** (always print bracket), **n** (no number or bracket), **num** (number only), or omitted (default)

value See information about the item to the left of the = for valid values

verses number or comma-separated list of dash-separated ranges

voicenum **1**, **2**, or **3**

voices *comma-separated list of dash-separated ranges of voicenum*s

withlist comma-separated list of the following: **.** (stacatto), **-** (legato), **^** (accent), **>** (accent), or **"***text***"**

X **x**, **w**, or **e** (x, west, or east)

Y **y**, **n**, or **s** (y, north, or south)

Font/size changes in text strings

To change font inside a quoted text string, use **\f(***fontfamily font***)** or **\f(***font_abbr***)** from the table:

font	*fontfamily*						
	avantgarde	bookman	courier	helvetica	newcentury	palatino	times
rom	AR	BR	CR	HR	NR	PR	TR
bold	AB	BB	CB	HB	NB	PB	TB
ital	AI	BI	CI	HI	NI	PI	TI
boldital	AX	BX	CX	HX	NX	PX	TX

\f(previous) or **\f(PV)** changes to previous font.
\f(rom) or **\f(R)** changes to roman in current family.
\f(ital) or **\f(I)** changes to ital in current family.
\f(bold) or **\f(I)** changes to bold in current family.
\f(boldital) or **\f(X)** changes to boldital in current family.
\s(*num***)** changes to point size *num*, 1 to 100.
\s(+*num***)** increases the size by *num* while **\s(-***num***)** decreases it by *num* points.
\s(previous) or **\s(PV)** reverts to previous size.

Mup command line arguments

-c *num*	combine *num* or more measures of rest into multirest
-C	used with -E, keep comments rather than discarding them
-d *num*	turn on debugging level *num*
-D *MACRO***=***def*	define *MACRO* as *def*
-e *errfile*	put error output into *errfile*
-E	just expand macros and "include" files and write result to standard output
-f *outfile*	put output into *outfile*
-F	put output into file, deriving output file name from input file name
-l	print the Mup license and exit
-m *midifile*	generate MIDI output into *midifile*
-M	generate MIDI output, derive file name
-o *pagelist*	only print pages in *pagelist*, list of numbers or ranges, optional **odd** or **even**, or **reversed**
-p *num*	start numbering pages at *num*
-q	quiet mode; omit version and copyright notice on startup
-s *stafflist*	print only the staffs listed in *stafflist*; add **v***N* to restrict to voice *N*
-v	print version number and exit
-x *M***,***N*	extract measures *M* through *N*, negative relative to end, 0 for pickup

Mupdisp commands

num<Enter>	go to page *num*
+ or <space> or <cntl-E> or <cntl-F>	forward 1/8"
f or <Enter> or <cntl-D> or <cntl-N>	forward 1"
- or <backspace> or <cntl-Y> or <cntl-B>	backward 1/8"
b or <cntrl-U> or <cntl-P> or <cntl-B>	backward 1"
h or **?**	help
m	toggle between full and partial page modes
n	next page
p	previous page
q or **ZZ**	quit
r	repaint the screen

Arithmetic operator precedence and associativity

These are the arithmetic operators supported by eval expressions and generalized conditionals.
Operators on each line have equal precedence, which is higher than the precedence of those on the lines below them.

operators	operations	associativity
( )	grouping	left to right
! ~ − +	not, one’s complement, unary minus, unary plus	right to left
* / %	multiply, divide, modulo	left to right
+ −	add, subtract	left to right
<< >>	left shift, right shift	left to right
< <= > >=	less than, less or equal, greater than, greater or equal	left to right
== !=	equal, not equal	left to right
&	bitwise AND	left to right
^	bitwise XOR	left to right
|	bitwise OR	left to right
&&	logical AND	left to right
||	logical OR	left to right
? :	interrogation	right to left

Note: generalized conditionals can also use "defined()"

Functions for location tag arithmetic and eval expressions

Name	Argument(s)	Result
sqrt	number	square root of the number
sin	angle (degrees)	sin of the angle
cos	angle (degrees)	cosine of the angle
tan	angle (degrees)	tangent of the angle
asin	number	arc sine of the number (degrees)
acos	number	arc cosine of the number (degrees)
atan	number	arc tangent of the number (degrees)
atan2	number,number	arc tangent of the ratio of the numbers (degrees)
hypot	number,number	square root of sum of the squares of the numbers
round	number	number rounded to nearest whole
floor	number	number rounded down to whole number
ceiling	number	number rounded up to whole number

Note: round, floor, and ceiling return whole numbers, and are only supported for eval expressions.
The others return decimals numbers and are supported for both location tag arithmetic and eval expressions.

Mup Parameters

Parameter	Score	Staff	Voice	Hd/Ft	Valid Values	Default
a4freq	•				100.0 to 1000.0	440.0
aboveorder	•	•			**mussym,octave,dyn&othertext&chord,lyrics,ending,reh**	as listed
acctable	•				**"***table_name***"**	**""**
addtranspose	•	•			**up** or **down**, followed by *interval* and *num*, then optional **notes** or **chords**	up perfect 1
alignlabels	•				**center**, or **left**, or **right**	right
alignped	•	•			**y** or **n**	y
alignrests	•	•	•		**y** or **n**	n
barstyle	•				optional **between** comma-separated lists of staffs or dash-separated ranges, or **all**	
beamslope	•	•	•		0.0 to 1.0, 0.0 to 45.0	0.7,20.0
beamstyle	•	•	•		comma-separated list of *time_values* that add up to a measure	
beloworder	•	•			**mussym,octave,dyn&othertext&chord,lyrics,pedal**	as listed
betweenorder	•	•			**mussym,dyn&othertext&chord,lyrics**	as listed
bottommargin	•				0.0 to pageheight minus 0.5 inches	0.5 inches
brace	•				comma-separated list of staffs or dash-separated ranges	
bracket	•				comma-separated list of staffs or dash-separated ranges	
bracketrepeats	•				**y** or **n**	n
cancelkey	•	•			**y** or **n**	n
carryaccs	•	•			**y** or **n**	y
chorddist	•	•			0.0 to 50.0 (stepsizes)	3.0
chordtranslation	•	•			nothing or "German" or string like "do re mi fa sol la si"	
clef	•	•			**treble,treble8,8treble,frenchviolin,soprano,mezzosoprano,alto,tenor,baritone,bass,8bass,bass8,subbass**	treble
cue	•	•	•		**y** or **n**	n
defaultkeymap	•	•			**"***keymap_name***"**	""
defaultphraseside	•	•	•		**above**, **below**, or nothing	
defoct	•	•	•		0 to 9	based on clef
dist	•	•			0.0 to 50.0 (stepsizes)	2.0
division	•				MIDI division, 1 to 1536 (ticks per quarter note)	192
dyndist	•	•			0.0 to 50.0 (stepsizes)	2.0

Parameter	Score	Staff	Voice	Hd/Ft	Valid Values	Default
emptymeas	•	•	•		string containing music input	"ms;"
endingkeymap	•	•			**"***keymap_name***"**	""
endingstyle	•				**top**, **barred**, or **grouped**	top
extendlyrics	•	•	•		**y** or **n**	n
firstpage	•				1 to 5000	1
flipmargins	•				**y** or **n**	n
font	•	•		•	**rom**, **bold**, **ital**, or **boldital**	rom
fontfamily	•	•		•	**avantgarde**, **bookman**, **courier**, **helvetica**, **newcentury**, **palatino**, or **times**	times
gridfret	•	•			2 to 99	4
gridsatend	•	•			**y** or **n**	n
gridswhereused	•	•			**y** or **n**	n
gridscale	•	•			0.1 to 10.0	1.0
indentrestart	•				**y** or **n**	n
key	•	•			*pitch* **major** or **minor**; or 0 to 7 **#** or **&** and optional **major** or **minor**	c major
label2	•	•			**"***text***"**	""
label	•	•			**"***text***"**	" "
labelkeymap	•	•			**"***keymap_name***"**	""
leftmargin	•				0.0 to pagewidth minus 0.5 inches	0.5 inches
leftspace	•				0.0 to 0.5, 0.0 to 100.0	0.15, 5.0
lyricsalign	•	•			0.0 to 1.0	0.25
lyricsdist	•	•			0.0 to 50.0 (stepsizes)	2.0
lyricsfont	•	•			**rom**, **bold**, **ital**, or **boldital**	rom
lyricsfontfamily	•	•			**avantgarde**, **bookman**, **courier**, **helvetica**, **newcentury**, **palatino**, or **times**	times
lyricskeymap	•	•			**"***keymap_name***"**	""
lyricssize	•	•			1 to 100 (points)	12
maxmeasures	•				1 to 1000	1000
maxscores	•				1 to 1000	1000
measnum	•				**y**, **n**, or **every** *N*	n
measnumfont	•				**rom**, **bold**, **ital**, or **boldital**	rom
measnumfontfamily	•				**avantgarde**, **bookman**, **courier**, **helvetica**, **newcentury**, **palatino**, or **times**	times
measnumsize	•				1 to 100 (points)	11
measnumstyle	•				**boxed**, **circled**, or **plain**	plain

Parameter	Score	Staff	Voice	Hd/Ft	Valid Values	Default
midlinestemfloat	•	•	•		**y** or **n**	n
minalignscale	•	•			0.1 to 1.0	0.667
mingridheight	•	•			2 to 99	4
musicscale	•				0.1 to 10.0	1.0
noteheads	•	•	•		string containing 1 or 7 headshape names	"norm"
noteinputdir	•	•	•		**up**, **down**, or **any**	any
noteleftfont	•	•	•		**rom**, **bold**, **ital**, or **boldital**	rom
noteleftfontfamily	•	•	•		**avantgarde**, **bookman**, **courier**, **helvetica**, **newcentury**, **palatino**, or **times**	times
noteleftsize	•	•	•		1 to 100	10
numbermrpt	•	•			**y** or **n**	y
numbermultrpt	•	•			**y** of **n**	y
ontheline	•	•	•		**y** or **n**	y
packexp	•				0.0 to 1.0	0.8
packfact	•				0.0 to 10.0	1.0
pad	•	•	•		-5.0 to 50.0	0.0
pageheight	•				2.0 to 24.0 inches or 5.0 to 61.0 cm	11.0 inches
pagesize	•				**letter, legal, flsa, halfletter, a4, a5, a6** then optional **portrait** or **landscape**	letter
pagewidth	•				2.0 to 24.0 inches or 5.0 to 61.0 cm	8.5 inches
panelsperpage	•				1 or 2	1
pedstyle	•	•			**line**, **pedstar**, or **alt pedstar**	line
printedtime	•	•			times signature or one or two strings	
printkeymap	•			•	**"***keymap_name***"**	""
printmultnum	•	•			**y** or **n**	y
rehearsalkeymap	•	•			**"***keymap_name***"**	""
rehstyle	•	•			**boxed**, **circled**, or **plain**	boxed
release	•	•	•		0 to 500 (milliseconds)	20
repeatdots	•	•			**standard** or **all**	standard
restcombine	•				2 to 1000	not set
restsymmult	•	•			**y** or **n**	n
rightmargin	•				0.0 to pagewidth minus 0.5 inches	0.5 inches
scale	•				0.1 to 10.0	1.0
scorepad	•				*num* or *num***,***num*, negative pageheight to pageheight (stepsizes)	2.0,2.0
scoresep	•				*num* or *num***,***num*, 6.0 to pageheight (stepsizes)	12.0,20.0

Parameter	Score	Staff	Voice	Hd/Ft	Valid Values	Default
shapes	•	•	•		shapes context name as a string	empty
size	•	•		•	1 to 100	12
slashesbetween	•				**y** or **n**	n
stafflines	•	•			**1**, **1n**, **5**, **5n**, **5 drum**, **1 drum**, or **tab (***tab_strings***)** optionally followed by **y** or **n**	5
staffpad	•	•			negative pageheight to pageheight (stepsizes)	0.0
staffs	•				1 to 40	1
staffscale	•	•			0.1 to 10.0	1.0
staffsep	•	•			6.0 to pageheight (stepsizes)	10.0
stemlen	•	•	•		0.0 to 100.0 (stepsizes)	7.0
stemshorten	•	•	•		0.0 to 2.0, 0.0 to 7.0, -4 to 50, -4 to 50 (stepsizes)	1.0,2.0,1,6
subbarstyle	•				*linetype bartype appearance staff_list* **time** *counts*	
swingunit	•	•	•		time value or nothing	nothing
sylposition	•	•			-100 to 100 (points)	-5
tabwhitebox	•	•	•		**y** or **n**	n
textkeymap	•	•			**"***keymap_name***"**	""
time	•				**common**, **cut** or *N***/***D* where *N* is 1 to 99 and *D* is **1**, **2**, **4**, **8**, **16**, **32**, or **64**	4/4
timeunit	•	•	•		*time_value* (can include dots)	*D* of time sig
topmargin	•				0.0 to pageheight minus 0.5 inches	0.5 inches
transpose	•	•			**up** or **down**, followed by *interval* and *num*, then optional **notes** or **chords**	up perfect 1
tuning	•				**equal**, **pythagorean**, or **meantone**	equal
tupletslope	•	•	•		0.1 to 1.0 for factor, 0.0 to 45.0 for max slope	0.7, 20.0
units	•				**inches** or **cm**	inches
useaccs	•	•			**n**, **y none**, **y all**, **y nonnat**, **y noneremuser**, **y nonnatremuser**	n
visible	•	•	•		**y**, **n**, or **whereused**	y
vcombine	•	•			*voices* then optional **nooverlap**, **shareone**, **stepsapart**, **overlap**, or **restsonly**, and **bymeas**	nothing
vscheme	•	•			**1**, **2o**, **2f**, **3o**, or **3f**	1
warn	•				**y** or **n**	y
withfont	•	•	•		**rom**, **bold**, **ital**, or **boldital**	rom
withfontfamily	•	•	•		**avantgarde**, **bookman**, **courier**, **helvetica**, **newcentury**, **palatino**, or **times**	times
withkeymap	•	•			**"***keymap_name***"**	""
withsize	•	•	•		1 to 100	12

Music symbols can be used in text strings by using **\(***symbol_name*), or **\(sm***symbol_name*) for smaller version.

gclef	fclef	cclef	octwhole	quadwhole	dblwhole	altdblwhole	1n	2n	4n	upflag	dnflag
owhrest	qwhrest	dwhrest	1rest	2rest	4rest	8rest	16rest	32rest	64rest	128rest	256rest
ll1rest	ll2rest	dot	nat	sharp	flat	dblsharp	dblflat	xnote	dwhdiamond	diamond	filldiamond
up2n	dn2n	up4n	dn4n	com	cut	begped	pedal	endped	dnbow	upbow	wedge
uwedge	ferm	uferm	sign	coda	mor	invmor	turn	invturn	acc_gt	acc_hat	acc_uhat
tr	leg	rr	dim	halfdim	triangle	measrpt	copyright	up8n	dn8n	up16n	dn16n
up32n	dn32n	up64n	dn64n	up128n	dn128n	up256n	dn256n	dwhrighttriangle	righttriangle	fillrighttriangle	udwhrighttriangle
urighttriangle	ufillrighttriangle	dwhrectangle	rectangle	fillrectangle	dwhisostriangle	isostriangle	fillisostriangle	dwhpiewedge	piewedge	fillpiewedge	dwhsemicircle
semicircle	fillsemicircle	dwhslashhead	slashhead	fillslashhead	blankhead	perfmaior	perfminor	imperfmaior	imperfminor	perfmaiordim	perfminordim
imperfmaiordim	imperfminordim	dblmeasrpt	quadmeasrpt	mensurdiamond	mensurfilldiamond	mensurdblwhole	mensurdwhrest	mensur1rest	mensurll1rest	mensur2rest	mensurll2rest
mensur4rest	mensur8rest	mensur16rest	mensurupflag	mensurdnflag							

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