DAISY Music Braille Project:

Braille Mapping of SMuFL Glyphs

Haipeng Hu, 21 January 2019

The Standard Music Font Layout (SMUFL) is a standard of presenting musical glyphs in fonts, developed by W3C Music Notation Community Group. It will be used as the general standard of future development of mainstream notation softwares, such as Finale, Musescore and Dorico. There are circumstances where some of the glyphs are exported into MusicXML as symbol names or unicode characters instead of standard MusicXML/MNX/MNX elements. In order to capture such glyphs in braille to get the correct symbols, a braille mapping to the mostly used glyphs is created, so that software developers can incorporate them into their packages.

The layout of this list is very fixed. Glyph names are given as combined words or abbreviations, which are standardized as SMUFL glyph names. Under every name, a SMUFL character codepoint is given, sometimes with an alternative codepoint. The description gives a simple information of the name. The braille is written using dot numbers. In multiple-celled braille symbols, every cell is separated by a comma. Some glyphs are useful, but have no appropriate braille equivalents. These are marked as "reserved", so that the transcriber can define their own braille symbols.

Not all glyphs are chosen. Apart from those very rarely used by both music notation and notation softwares, some glyphs are impossible to be mapped, because the braille equivalents should be determined according to context rather than a fixed mapping.

All braille equivalents are written using dot numbers, and every cell is separated by a comma. Available as a .json file.

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 "description": "Three-quarter-tones flat"

 "braille": "456,126"

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 "braille": "236,46,236"

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 "braille": "6,236"

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 "description": "Staccatissimo stroke below"

 "braille": "reserved"

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 "articStaccatissimoWedgeAbove": {

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 "description": "Staccatissimo wedge above"

 "braille": "6,236,4,236"

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 "braille": "5,236"

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 "articTenutoStaccatoBelow": {

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 "description": "Lour\u00e9 (tenuto-staccato) below"

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 "articUnstressBelow": {

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 "barlineDotted": {

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 "braille": "space,13,space"

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 "description": "Double barline"

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 "barlineFinal": {

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 "description": "Heavy double barline"

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 "codepoint": "U+E033",

 "description": "Reverse final barline"

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 "description": "Breath mark (comma)"

 "braille": "345,2"

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 "description": "Breath mark (Salzedo)"

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 "breathMarkTick": {

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 "description": "Breath mark (tick-like)"

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 "breathMarkUpbow": {

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 "description": "Breath mark (upbow-like)"

 "braille": "345,2"

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 "description": "Buzz roll"

 "braille": "45,2"

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 "cClef": {

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 "codepoint": "U+E05C",

 "description": "C clef"

 "braille": "345,346,123"

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 "description": "C clef ottava bassa"

 "braille": "345,346,123,3456,236"

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 "description": "Short caesura"

 "braille": "6,34"

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 "caesuraThick": {

 "codepoint": "U+E4D2",

 "description": "Thick caesura"

 "braille": "6,34"

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 "clef15": {

 "codepoint": "U+E07E",

 "description": "15 for clefs"

 "braille": "3456,1,15 for above, 3456,2,26 for below"

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 "codepoint": "U+E07D",

 "description": "8 for clefs"

 "braille": "3456,125 for above, 3456,236 for below"

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 "coda": {

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 "codepoint": "U+E048",

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 "description": "Square coda"

 "braille": "346,123"

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 "codepoint": "U+ED64",

 "description": "Double flat"

 "braille": "126,126"

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 "csymAccidentalSharp": {

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 "description": "Triple sharp"

 "braille": "146,146,146"

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 "csymAugmented": {

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 "description": "Augmented"

 "braille": "346"

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 "csymBracketLeftTall": {

 "codepoint": "U+E877",

 "description": "Double-height left bracket"

 "braille": "56,3"

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 "csymBracketRightTall": {

 "codepoint": "U+E878",

 "description": "Double-height right bracket"

 "braille": "6,23"

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 "csymDiagonalArrangementSlash": {

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 "description": "Slash for chord symbols arranged diagonally"

 "braille": "3456,34"

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 "codepoint": "U+E870",

 "description": "Diminished"

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 "csymHalfDiminished": {

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 "braille": "256,3"

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 "csymMajorSeventh": {

 "codepoint": "U+E873",

 "description": "Major seventh"

 "braille": "6,134,3456,1245"

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 "csymMinor": {

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 "csymParensLeftTall": {

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 "description": "Double-height left parenthesis"

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 "csymParensLeftVeryTall": {

 "codepoint": "U+E879",

 "description": "Triple-height left parenthesis"

 "braille": "2356"

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 "csymParensRightTall": {

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 "braille": "345,145,3,14,3"

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 "dynamicCombinedSeparatorColon": {

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 "braille": "36"

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 "braille": "34"

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 "description": "Space separator for combined dynamics"

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 "description": "Right bracket (for hairpins)"

 "braille": "6,23"

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 "description": "Left parenthesis (for hairpins)"

 "braille": "6,3"

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 "dynamicHairpinParenthesisRight": {

 "codepoint": "U+E543",

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 "braille": "6,3"

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 "description": "Rinforzando 2"

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 "description": "Sforzando-piano"

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 "description": "Sforzatissimo"

 "braille": "234,124,124,1356, add 345 before if required"

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 "description": "Sforzato-piano"

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 "codepoint": "U+E525",

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 "codepoint": "U+E062",

 "description": "F clef"

 "braille": "345,3456,123"

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 "fClef15ma": {

 "codepoint": "U+E066",

 "description": "F clef quindicesima alta"

 "braille": "345,3456,123,3456,1,15"

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 "fClef15mb": {

 "codepoint": "U+E063",

 "description": "F clef quindicesima bassa"

 "braille": "345,3456,123,3456,2,26"

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 "fClef8va": {

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 "codepoint": "U+E065",

 "description": "F clef ottava alta"

 "braille": "345,3456,123,3456,125"

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 "fClef8vb": {

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 "codepoint": "U+E064",

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 "fermataAbove": {

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 "codepoint": "U+E4C0",

 "description": "Fermata above"

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 "fermataBelow": {

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 "codepoint": "U+E4C1",

 "description": "Fermata below"

 "braille": "126,123"

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 "fermataLongAbove": {

 "codepoint": "U+E4C6",

 "description": "Long fermata above"

 "braille": "45,126,123"

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 "fermataLongBelow": {

 "codepoint": "U+E4C7",

 "description": "Long fermata below"

 "braille": "45,126,123"

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 "codepoint": "U+E4C4",

 "description": "Short fermata above"

 "braille": "reserved"

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 "fermataShortBelow": {

 "codepoint": "U+E4C5",

 "description": "Short fermata below"

 "braille": "reserved"

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 "fermataVeryLongAbove": {

 "codepoint": "U+E4C8",

 "description": "Very long fermata above"

 "braille": "45,126,123"

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 "fermataVeryLongBelow": {

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 "codepoint": "U+E4C2",

 "description": "Very short fermata above"

 "braille": "reserved"

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 "fermataVeryShortBelow": {

 "codepoint": "U+E4C3",

 "description": "Very short fermata below"

 "braille": "reserved"

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 "fingering0": {

 "codepoint": "U+ED10",

 "description": "Fingering 0 (open string)"

 "braille": "13"

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 "codepoint": "U+ED80",

 "description": "Fingering 0 italic (open string)"

 "braille": "13"

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 "fingering1": {

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 "description": "Fingering 1 (thumb)"

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 "description": "Fingering 1 italic (thumb)"

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 "fingering2": {

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 "description": "Fingering 2 (index finger)"

 "braille": "12"

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 "fingering2Italic": {

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 "description": "Fingering 2 italic (index finger)"

 "braille": "12"

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 "description": "Fingering 3 (middle finger)"

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 "fingering3Italic": {

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 "description": "Fingering 3 italic (middle finger)"

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 "description": "Fingering 5 (little finger)"

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 "description": "Fingering 5 italic (little finger)"

 "braille": "13"

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 "fingering6": {

 "codepoint": "U+ED24",

 "description": "Fingering 6"

 "braille": "reserved"

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 "fingering6Italic": {

 "codepoint": "U+ED86",

 "description": "Fingering 6 italic"

 "braille": "reserved"

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 "fingering7": {

 "codepoint": "U+ED25",

 "description": "Fingering 7"

 "braille": "reserved"

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 "description": "Fingering 7 italic"

 "braille": "reserved"

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 "description": "Fingering 8"

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 "description": "Fingering 8 italic"

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 "description": "Fingering 9 italic"

 "braille": "reserved"

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 "description": "Fingering a (anular; right-hand ring finger for guitar)"

 "braille": "1"

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 "description": "Fingering c (right-hand little finger for guitar)"

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 "codepoint": "U+ED1E",

 "description": "Fingering e (right-hand little finger for guitar)"

 "braille": "15"

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 "fingeringILower": {

 "codepoint": "U+ED19",

 "description": "Fingering i (indicio; right-hand index finger for guitar)"

 "braille": "24"

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 "fingeringLeftBracket": {

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 "description": "Fingering left bracket"

 "braille": "56,3"

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 "description": "Fingering left bracket italic"

 "braille": "56,3"

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 "description": "Fingering left parenthesis"

 "braille": "6,3"

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 "braille": "6,3"

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 "braille": "134"

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 "description": "Multiple notes played by thumb or single finger"

 "braille": "reserved"

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 "codepoint": "U+ED1F",

 "description": "Fingering o (right-hand little finger for guitar)"

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 "fingeringPLower": {

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 "description": "Fingering right bracket"

 "braille": "6,23"

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 "description": "Fingering right bracket italic"

 "braille": "6,23"

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 "description": "Fingering right parenthesis"

 "braille": "6,3"

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 "codepoint": "U+ED8B",

 "description": "Fingering right parenthesis italic"

 "braille": "6,3"

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 "fingeringSeparatorMiddleDot": {

 "codepoint": "U+ED2C",

 "description": "Fingering middle dot separator"

 "braille": "reserved"

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 "fingeringSeparatorMiddleDotWhite": {

 "codepoint": "U+ED2D",

 "description": "Fingering white middle dot separator"

 "braille": "reserved"

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 "fingeringSeparatorSlash": {

 "codepoint": "U+ED2E",

 "description": "Fingering forward slash separator"

 "braille": "reserved"

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 "fingeringSubstitutionAbove": {

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 "description": "Finger substitution above"

 "braille": "reserved"

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 "fingeringSubstitutionBelow": {

 "codepoint": "U+ED21",

 "description": "Finger substitution below"

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 "fingeringSubstitutionDash": {

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 "description": "Finger substitution dash"

 "braille": "14"

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 "fingeringTLower": {

 "codepoint": "U+ED18",

 "description": "Fingering t (right-hand thumb for guitar)"

 "braille": "2345"

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 "fingeringTUpper": {

 "codepoint": "U+ED16",

 "description": "Fingering T (left-hand thumb for guitar)"

 "braille": "2345"

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 "fingeringXLower": {

 "codepoint": "U+ED1D",

 "description": "Fingering x (right-hand little finger for guitar)"

 "braille": "1346"

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 "gClef": {

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 "codepoint": "U+E050",

 "description": "G clef"

 "braille": "345,34,123"

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 "gClef15ma": {

 "codepoint": "U+E054",

 "description": "G clef quindicesima alta"

 "braille": "345,34,123,3456,1,15"

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 "gClef15mb": {

 "codepoint": "U+E051",

 "description": "G clef quindicesima bassa"

 "braille": "345,34,123,3456,2,26"

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 "gClef8va": {

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 "codepoint": "U+E053",

 "description": "G clef ottava alta"

 "braille": "345,34,123,3456,125"

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 "gClef8vb": {

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 "codepoint": "U+E052",

 "description": "G clef ottava bassa"

 "braille": "345,34,123,3456,236"

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 "gClef8vbCClef": {

 "codepoint": "U+E056",

 "description": "G clef ottava bassa with C clef"

 "braille": "345,34,123,3456,236,345,346,123"

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 "gClef8vbOld": {

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 "description": "G clef ottava bassa (old style)"

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 "gClef8vbParens": {

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 "description": "G clef, optionally ottava bassa"

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 "keyboardBebung2DotsAbove": {

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 "description": "Clavichord bebung, 2 finger movements (above)"

 "braille": "4,236,236"

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 "keyboardBebung2DotsBelow": {

 "codepoint": "U+E669",

 "description": "Clavichord bebung, 2 finger movements (below)"

 "braille": "4,236,236"

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 "keyboardBebung3DotsAbove": {

 "codepoint": "U+E66A",

 "description": "Clavichord bebung, 3 finger movements (above)"

 "braille": "4,236,236,236"

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 "keyboardBebung3DotsBelow": {

 "codepoint": "U+E66B",

 "description": "Clavichord bebung, 3 finger movements (below)"

 "braille": "4,236,236,236"

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 "keyboardBebung4DotsAbove": {

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 "description": "Clavichord bebung, 4 finger movements (above)"

 "braille": "4,236,236,236,236"

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 "keyboardBebung4DotsBelow": {

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 "description": "Clavichord bebung, 4 finger movements (below)"

 "braille": "4,236,236,236,236"

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 "codepoint": "U+E650",

 "description": "Pedal mark"

 "braille": "126,14"

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 "keyboardPedalUp": {

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 "codepoint": "U+E655",

 "description": "Pedal up mark"

 "braille": "16,14"

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 "ornamentMordent": {

 "codepoint": "U+E56D",

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 "braille": "5,235"

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 "ornamentSchleifer": {

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 "description": "Schleifer (long mordent)"

 "braille": "4,123"

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 "ornamentTrill": {

 "alternateCodepoint": "U+1D196",

 "codepoint": "U+E566",

 "description": "Trill"

 "braille": "235"

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 "ornamentTurn": {

 "alternateCodepoint": "U+1D197",

 "codepoint": "U+E567",

 "description": "Turn"

 "braille": "256"

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 "ornamentTurnInverted": {

 "alternateCodepoint": "U+1D198",

 "codepoint": "U+E568",

 "description": "Inverted turn"

 "braille": "256,123"

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 "repeat1Bar": {

 "alternateCodepoint": "U+1D10E",

 "codepoint": "U+E500",

 "description": "Repeat last bar"

 "braille": "2356"

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 "repeat2Bars": {

 "alternateCodepoint": "U+1D10F",

 "codepoint": "U+E501",

 "description": "Repeat last two bars"

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 "repeat4Bars": {

 "codepoint": "U+E502",

 "description": "Repeat last four bars"

 "braille": "3456,145"

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 "repeatLeft": {

 "alternateCodepoint": "U+1D106",

 "codepoint": "U+E040",

 "description": "Left (start) repeat sign"

 "braille": "126,2356"

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 "repeatRight": {

 "alternateCodepoint": "U+1D107",

 "codepoint": "U+E041",

 "description": "Right (end) repeat sign"

 "braille": "126,23"

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 "repeatRightLeft": {

 "codepoint": "U+E042",

 "description": "Right and left repeat sign"

 "braille": "126,23,space,126,2356"

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 "rightRepeatSmall": {

 "codepoint": "U+E04D",

 "description": "Right repeat sign within bar"

 "braille": "126,23"

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 "segno": {

 "alternateCodepoint": "U+1D10B",

 "codepoint": "U+E047",

 "description": "Segno"

 "braille": "346"

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 "stringsDownBow": {

 "alternateCodepoint": "U+1D1AA",

 "codepoint": "U+E610",

 "description": "Down bow"

 "braille": "126,12"

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 "stringsThumbPosition": {

 "codepoint": "U+E624",

 "description": "Thumb position"

 "braille": "16,13"

 },

 "stringsUpBow": {

 "alternateCodepoint": "U+1D1AB",

 "codepoint": "U+E612",

 "description": "Up bow"

 "braille": "126,3"

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 "timeSigBracketLeft": {

 "codepoint": "U+EC80",

 "description": "Left bracket for whole time signature"

 "braille": "6,2356"

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 "timeSigBracketLeftSmall": {

 "codepoint": "U+EC82",

 "description": "Left bracket for numerator only"

 "braille": "6,2356"

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 "timeSigBracketRight": {

 "codepoint": "U+EC81",

 "description": "Right bracket for whole time signature"

 "braille": "2356,3"

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 "timeSigBracketRightSmall": {

 "codepoint": "U+EC83",

 "description": "Right bracket for numerator only"

 "braille": "2356,3"

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 "timeSigCommon": {

 "alternateCodepoint": "U+1D134",

 "codepoint": "U+E08A",

 "description": "Common time"

 "braille": "46,14"

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 "timeSigCut2": {

 "codepoint": "U+EC85",

 "description": "Cut time (Bach)"

 "braille": "456,14"

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 "timeSigCutCommon": {

 "alternateCodepoint": "U+1D135",

 "codepoint": "U+E08B",

 "description": "Cut time"

 "braille": "456,14"

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 "timeSigEquals": {

 "codepoint": "U+E08F",

 "description": "Time signature equals"

 "braille": "123456"

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 "timeSigFractionHalf": {

 "codepoint": "U+E098",

 "description": "Time signature fraction \u00bd"

 "braille": "3456,1,34,12"

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 "timeSigFractionOneThird": {

 "codepoint": "U+E09A",

 "description": "Time signature fraction \u2153"

 "braille": "3456,1,34,14"

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 "timeSigFractionQuarter": {

 "codepoint": "U+E097",

 "description": "Time signature fraction \u00bc"

 "braille": "3456,1,34,145"

 },

 "timeSigFractionThreeQuarters": {

 "codepoint": "U+E099",

 "description": "Time signature fraction \u00be"

 "braille": "3456,14,34,145"

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 "timeSigFractionTwoThirds": {

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 "description": "Time signature fraction \u2154"

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