# The GUIDO Music Notation Format

## Additionnal and new specifications

**Supported by the GUIDO Engine version 1.5.2**
Grame - October 2013

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### 1. Meter

**\meter**<*type, size, autoBarlines*>

Sets the meter of the voice. Meter can be complex : numerator can be a sum. See examples.

- **Parameters** (in the order of their default positions):

    - **type** (*optional*) - meter type
        - *value type:* **string**
        - *default value:* **"4/4"**

    - **size** (*optional*) - graphic size of the meter
        - *value type:* **unit**
        - *default value:* **1**

    - **autoBarlines** (*optional*) - sets auto barlines on or off
        - *value type:* **string**
        - *standard values:*
            - **"on"**
            - **"off"**
        - *default value:* **"on"**

- **Range:** *none*

- **Semantics:**
    - Meter corresponds to the segmentation of music part's duration.

- **Examples:**

    - [ \meter<"2+2+3/4"> a a c2 a1 e2 e d c ]



    - [ \meter<"C"> a b c d e ]



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### 2. Tuplet

**\tuplet**<*format, dy1, dy2, lineThickness, bold, textSize*>(*notes*)

Sets a *tuplet*.

- **Parameters** (in the order of their default positions):

    - **format** (*optional*) - meter format
        - *value type:* **string**
        - *syntax:* **"[leftBrace][numerator]:[denominator][rightBrace]"**
        - *examples:*
            - **"-3-"**
            - **"3:5-"**
            - **"2:7"**
        - *default value:* **"--"**

    - **dy1, dy2** (*optional*) - graphic vertical offsets of the two ends of the *tuplet*'s line (defines *tuplet*'s line slope)
        - *value type:* **unit**
        - *default value:* **0**

- **lineThickness** (*optional*) - graphic thickness of *tuplet*'s line
    - *value type:* **unit**
    - *default value:* **0.08**

- **bold** (*optional*) - defines if the text is bold or not
    - *value type:* **string**
    - *standard values:*
        - **"true"**
        - **"false"**
    - *default value:* **"false"**

- **textSize** (*optional*) - graphic size of the text
    - *value type:* **unit**
    - *default value:* **1**

- **Range:** *obligatory*

- **Semantics:**
    - A *tuplet* corresponds to any rhythm that involves dividing the beat into a different number of equal subdivisions from that usually permitted by the time-signature.

- **Examples:**

    - [ \tuplet<"-3-", textSize=1.5, bold="true", lineThickness=0.2, dy1=10> (a/3 a a) ]

    

    - [ \tuplet<"2:5-", dy1=7, dy2=9> (g b b) ]

    

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## 3. Staff format

**\staffFormat***<style, size, lineThickness>*

Changes the appearance of the staff.

- **Parameters** (*in the order of their default positions*):

    - **style** (*optional*) - staff style
        - *value type:* **string**
        - *syntax:* **"[n]-lines"**, where *n* is the number of lines to display
        - *default value:* **"5-lines"**

    - **size** (*optional*) - graphic size of the staff
        - *value type:* **unit**
        - *default value:* **1**

    - **lineThickness** (*optional*) - defines the staff lines thickness
        - *value type* **unit**
        - *default value:* **0.08**

- **Range:** *none*

- **Examples:**

    - [ \staffFormat<size=5pt, lineThickness=0.3> c d e f g a h c2 ]

    

    - [ \staffFormat<style="1-line"> \clef<"none"> g g g g g e h ]

    

## 4. Accelerando - Ritardando

**\accel**<*dx, dy, color, tempo, abstempo, font, fattrib, fsize*>(*notes*)

**\rit**<*dx, dy, color, tempo, abstempo, font, fattrib, fsize*>(*notes*)

Places the text "accel." or "rit." under the staff where it occurs, and draws a dotted line to the end position.

- **Parameters** (*in the order of their default positions*):
    - **dx, dy** (*optional*) - graphic offsets of the *accelerando / ritardando*
        - *value type:* **unit**
        - *default value:* **0**
    - **color** (*optional*) - graphic color of the *accelerando / ritardando*
        - *value type:* **color string**
        - *default value:* **"black"**
    - **tempo** (*optional*) - tempo for the beginning note
        - *value type:* **tempo string**
        - *examples:*
            - **"60"**
            - **"80"**
        - *default value:* **""**
    - **abstempo** (*optional*) - tempo for the ending note
        - *value type:* **tempo string**
        - *examples:*
            - **"60"**
            - **"80"**
        - *default value:* **""**
    - **font** (*optional*) - the font name for the text accel or rit
        - *type value:* **font string**
        - *examples:*
            - **"Arial"**
            - **"Andalus"**
        - *default value:* "Times new Roman"
    - **fattrib** (*optional*) - the font attributes
        - *value type:* **attributes string**
        - *standard values:*
            - **"b"** (for bold)
            - **"i"** (for italic)
        - *default value:* **""**
    - **fsize** (*optional*) - the font size
        - *value type:* unit
        - *default value:* **9pt**

- **Range:** *obligatory*

- **Semantics:**
    - Acceleration or deceleration within a group of notes.

- **Examples:**
    - [ \rit<fattrib="b">(e g b f a) \accel<tempo="60", color="red", abstempo="80", dy=22, font="Andalus">(e d e2 e3 f1 a) ]



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## 5. Marcato

**\marcato**<*position, dx, dy*>(*notes*)

Places a *marcato* on a note.

- **Parameters** (*in the order of their default positions*):
    - **position** (*optional*) - *marcato* position
        - *value type:* **string**
        - *standard values:*
            - **"above"**
            - **"below"**
        - *default value:* **""**, let the *marcato* places itself automatically
    - **dx, dy** (*optional*) - graphic offsets of the *marcato*
        - *value type:* **unit**
        - *default value:* **0**

- **Range:** *obligatory*

- **Semantics:**
    - The *marcato* is a musical instruction indicating a note, chord, or passage which has to be played louder or more forcefully than surrounding music.

- **Examples:**

○ [ \marcato(b) \marcato(a) \marcato<position="above", dy=4>(a) \marcato<"below", dx=3, dy=-4>(b) ]



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## 6. Crescendo - Decrescendo

**\cresc**<dx1, dx2, dy, deltaY, color>(notes)

**\decresc**<dx1, dx2, dy, deltaY, color>(notes)

Places a *crescendo / decrescendo* under selected notes.

- **Parameters** (in the order of their default positions):

    ○ **dm** (optional) - *dynamic marking*, displays intensity at the symbol's right
      - *value type:* **intensity string**
      - *examples:*
        - **"ppp"**
        - **"f"**
        - **"mf"**
      - *default value:* **""**

    ○ **dx1** (optional) - graphic horizontal offset of the symbol's left
      - *value type:* **unit**
      - *default value:* **0**

    ○ **dx2** (optional) - graphic horizontal offset of the symbol's right
      - *value type:* **unit**
      - *default value:* **0**

    ○ **dy** (optional) - graphic vertical offset of the symbol
      - *value type:* **unit**
      - *default value:* **0**

    ○ **deltaY** (optional) - graphic vertical spacing between the two symbol's lines
      - *value type:* **unit**
      - *default value:* **3**

    ○ **color** (optional) - graphic color of the symbol
      - *value type:* **color string**
      - *default value:* **"black"**

    ○ **size** (optional) - graphic size of the *marking*
      - *value type:* **unit**
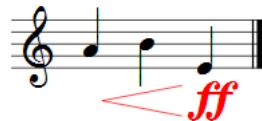      - *default value:* **1**

- **Range:** *obligatory*

- **Semantics:**
    ○ The *crescendo* (*decrescendo*) marks a passage of a music during which the volume gradually increases (decreases).

- **Examples:**

    ○ [ \cresc<dm="ff", dx1=2, dx2=-4, dy=1.5, deltaY=5, color="red", size=1.5>(a b c) ]



[ \decresc<thickness=0.5>(a f/2 f/4 empty) ]



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## 7. Accolade

**\accol**<id, range, type, dx>

Changes the style and position of *accolade(s)* joining the staves.

- **Parameters** (in the order of their default positions):

    ○ **id** (required) - *accolade*'s id
      - *value type:* **integer**

    ○ **range** (required) - beginning and ending staves concerned by the *accolade*
      - *value type:* **string**
      - *syntax:* **"[m]-[n]"** (with **m** the beginning staff, **n** the ending staff)
      - *examples:*

- **"1-3"**
- **"2-2"** (concerns only staff 2)

- *type* (*optional*) - *accolade*'s style
  - *value type:* **string**
  - *standard values:*
    - **""**
    - **"none"**
    - **"straightBrace"**
    - **"thinBrace"**
  - *default value:* **""**

- *dx* (*optional*) - graphic horizontal offset of the *accolade*
  - *value type:* **unit**
  - *default value:* **0**

- **Range:** *none*

- **Examples:**

  - { [ \accol<id=1, range="1-3", dx=-4, type="straightBrace"> a b c ], [ \accol<id=2, range="2-3", type="thinBrace"> \clef<"f"> ], [ f f e ]