libmusicxml2: architecture overview

(light gray indicates items not yet available)

MusicXML
(text)

Guido
(text)

xmlelement
tree

RandomMusic

tools

xmlToGuido

MSR
(graph)

xml2lilypond

MDSR
(?)

LPSR
(graph)

MIDI
(binary)
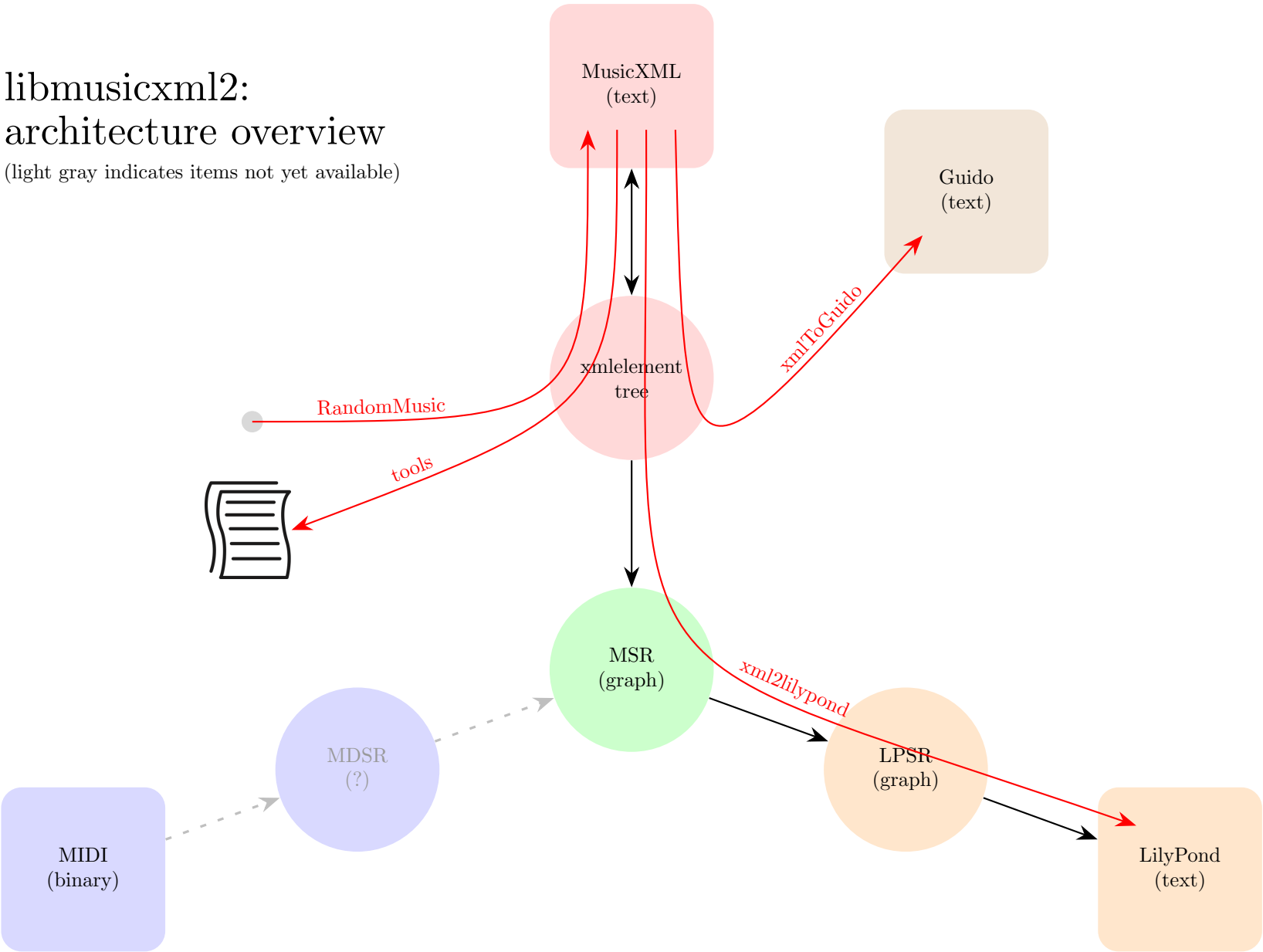
LilyPond
(text)

Entity	Description
xmlelement tree	a tree representing the MusicXML markups such as `<part-list>`, `<time>` and `<note>`
MSR	Music Score Representation, in terms of part groups, parts, staves, voices, notes, . . .
LPSR	LilyPond Score Representation, i.e. MSR plus LilyPond-specific items such as `\score` blocks
MDSR	MIDI Score Representation, to be designed
RandomMusic	generates an xmlelement tree containing random music and writes it as MusicXML
tools	a set of other demo programs such as `countnotes` and `partsummary`, showing the use of the library
xml2lilypond	performs the 4 hops from MusicXML to LilyPond to translate the former into the latter

• Note: LilyPond can generate MIDI files from its input