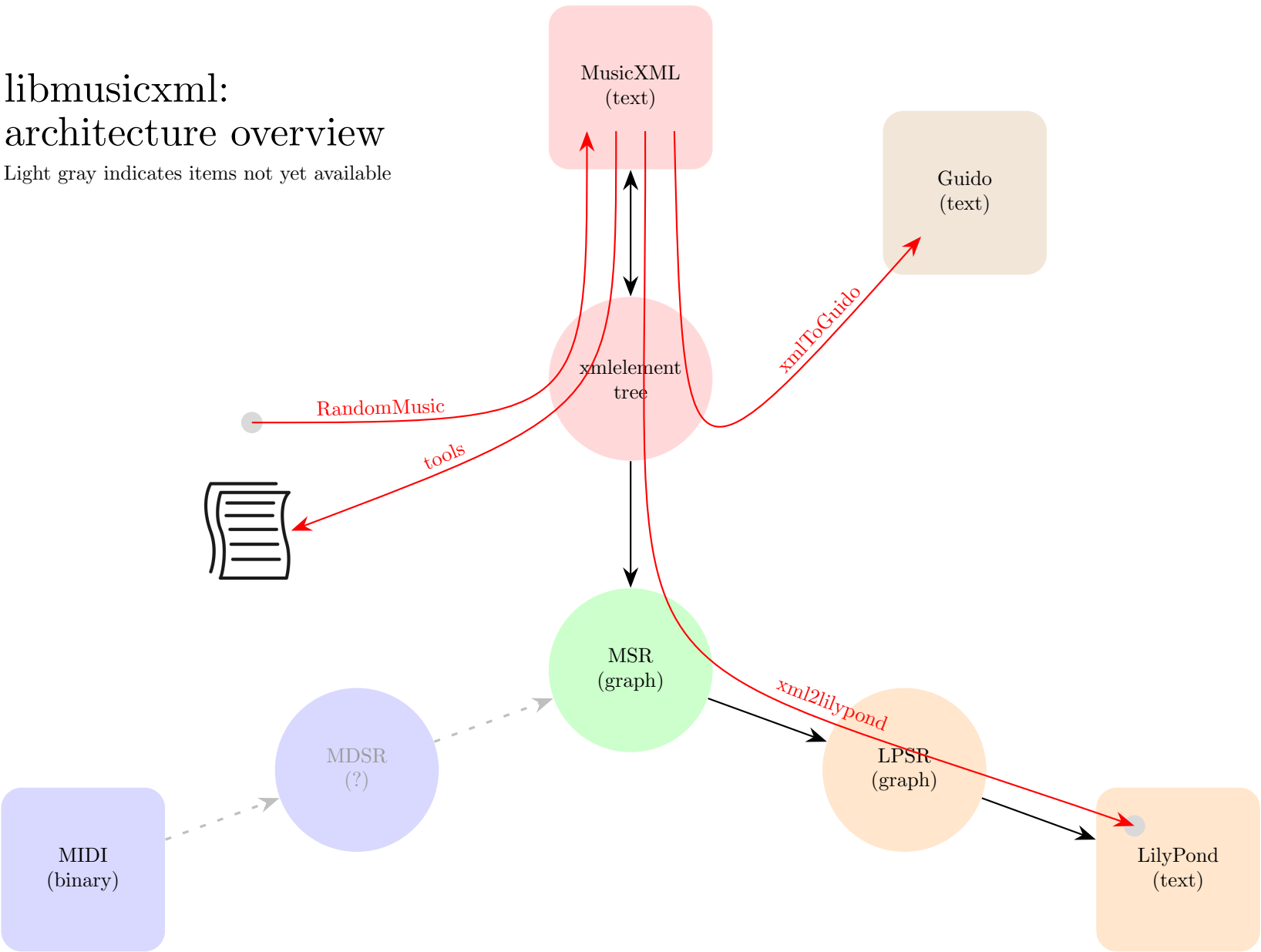# libmusicxml:
architecture overview

Light gray indicates items not yet available

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 data representing the `\score` block
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

• note: LilyPond can generate MIDI files from its input