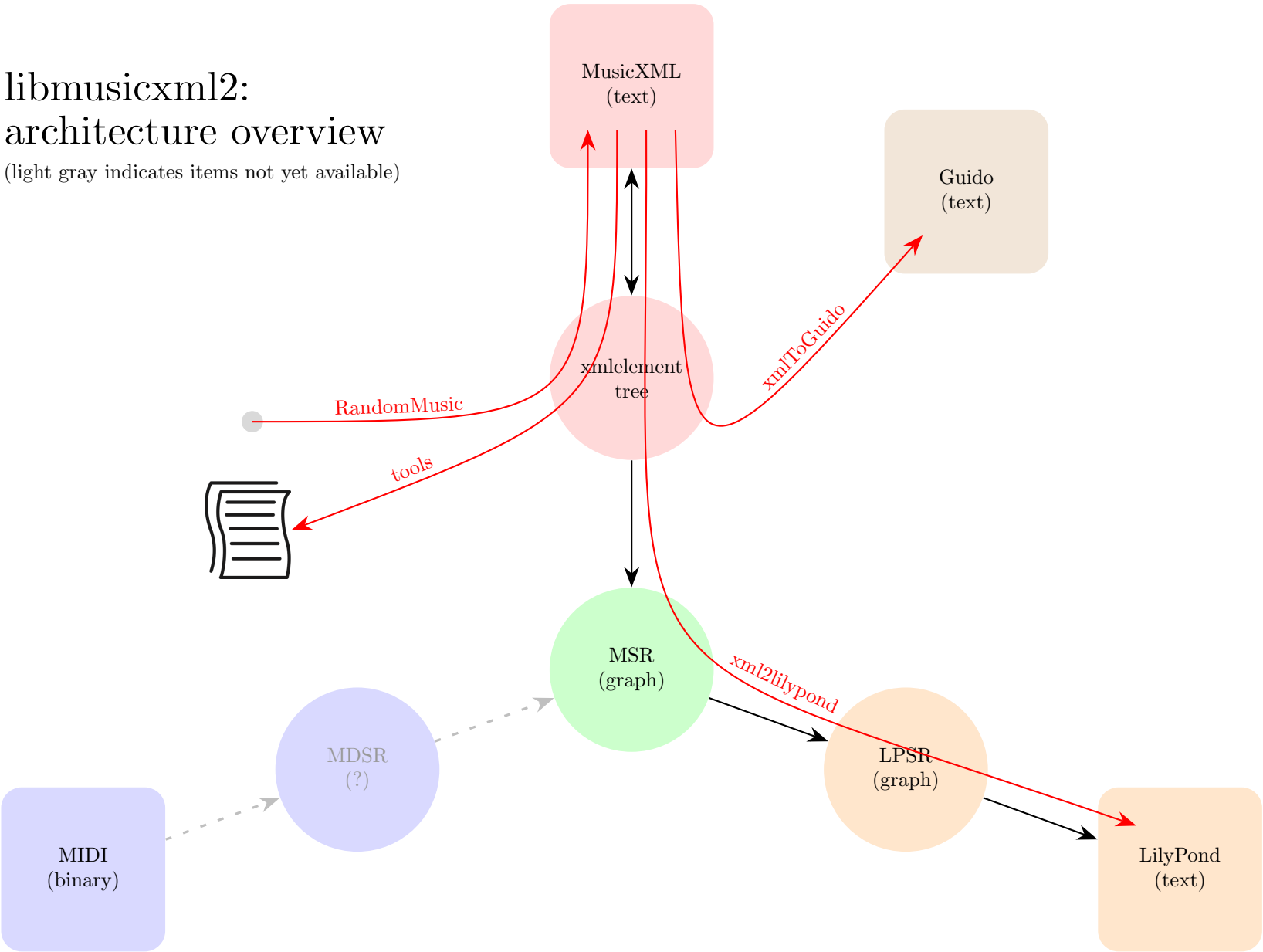# libmusicxml2:
## architecture overview

(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 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