

MusicFormats API guide

<https://github.com/jacques-menu/musicformats>

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Jacques Menu

Minimal score



```
1 S_lpsrScore translateMsrToLpsr (  
2   S_msrScore          originalMsrScore,  
3   S_msrOahGroup       msrOpts,  
4   S_lpsrOahGroup      lpsrOpts,  
5   string              passNumber,  
6   string              passDescription,  
7   S_mfcMultiComponent multiComponent)  
8 {  
9   // ... ..  
10  
11   // create an msr2lpsrTranslator  
12   msr2lpsrTranslator  
13     translator (  
14       originalMsrScore);  
15  
16   // build the LPSR score  
17   S_lpsrScore  
18     resultingLpsr =  
19     translator.translateMsrToLpsr (  
20       originalMsrScore,  
21       multiComponent);  
22  
23   // ... ..  
24  
25   return resultingLpsr;  
26 }
```

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Acknowledgements

Many thanks to Dominique Fober, the designer and maintainer of the `libmusicxml2` library. This author would not have attempted to work on a MusicXML to LilyPond converter without his work being already available.

In particular, the conversion of MusicXML data to a tree is extremely well done directly from the MusicXML DTD, and that was a necessary step to produce LilyPond code. Dominique also provided a nice way to browse this tree with a two-phase visitor design pattern, which this author uses extensively in his own code. The interested reader can find information about that in [libmusicxml2.pdf](#), and more technical details in [MusicFormatsMaintenanceGuide.pdf](#).

`xml2ly` and some of the specific examples presented in this document started as this author's contribution to `libmusicxml2`, and was later moved to a separate GitHub repository for practical reasons.

Part I

MusicFormats API principles

Chapter 2

API principles

Part II

The MXSR API

Chapter 3

Creating scores with the MXSR API

Part III

The MSR API

Chapter 4

Creating scores with the MSR API

Part IV

The LPSR API

Chapter 5

Creating scores with the LPSR API

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The BSR API

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Creating scores with the BSR API

Part VI

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