

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.

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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

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Creating scores with the MSR API

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