



The Recordare MusicXML Finale Converter

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Outline

- Introduction to MusicXML and Finale
- Exchanging with MuseData
- Reading from music scanning software: SharpEye Music Reader and Middle C
- Writing to FreeHand Music Manager
- Converting between Finale versions
- Making Finale data more accessible



Introduction to MusicXML

- MusicXML represents symbolic musical data such as pitches and rhythms
- Supports notation, analysis, information retrieval, and performance applications
- Augments, but does not replace, specialized proprietary formats
- Most successful music interchange format since MIDI



MusicXML for



```
<direction placement="above">
 <direction-type>
  <dynamics>
   </dynamics>
 </direction-type>
</direction>
<note>
 <pitch>
  <step>G</step>
  <octave>4</octave>
 </pitch>
 <duration>6</duration>
```

```
<voice>1</voice>
 <type>quarter</type>
 <stem>up</stem>
 <notations>
  <articulations>
    <staccato/>
  </articulations>
 </notations>
 <lyric>
  <syllabic>begin</syllabic>
  <text>schla</text>
 </lyric>
</note>
```



Introduction to Finale

- Market leader in music notation software
- Used both by composers writing music and engravers/copyists preparing music for publication
- Has a plug-in developer's kit (PDK) for third-party developers
- File format partially documented in PDK

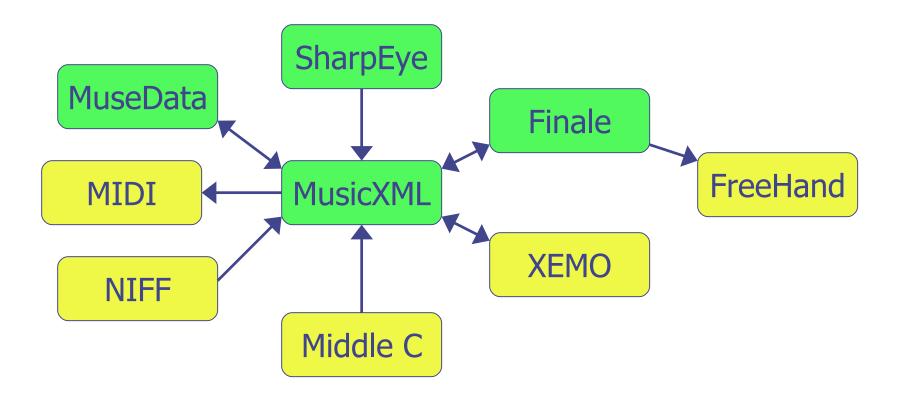
The MusicXML Finale Converter



- Runs as a Finale plug-in on Windows
- Converts between Finale, MusicXML, and MuseData formats
- Allows other programs that support MusicXML to interchange music with Finale and related programs
- Improves forwards compatibility between Finale 2000 and Finale 2002



MusicXML Interchange



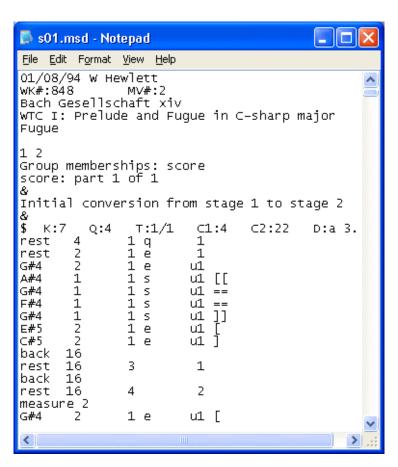


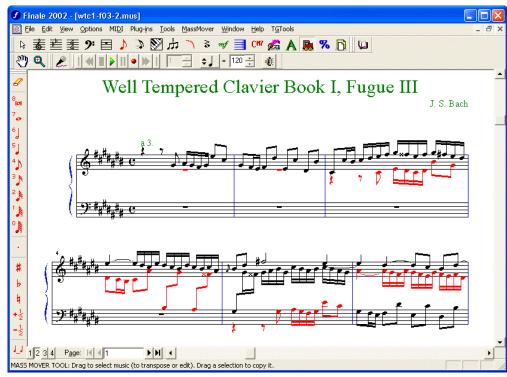
Exchanging with MuseData

- Leading academic music format developed by Walter Hewlett
- Large library of online music available from Center for Computer Assisted Research in the Humanities
- Database at <u>www.musedata.org</u>
- Converter allows two-way interchange between Finale and MuseData



MuseData to Finale Example



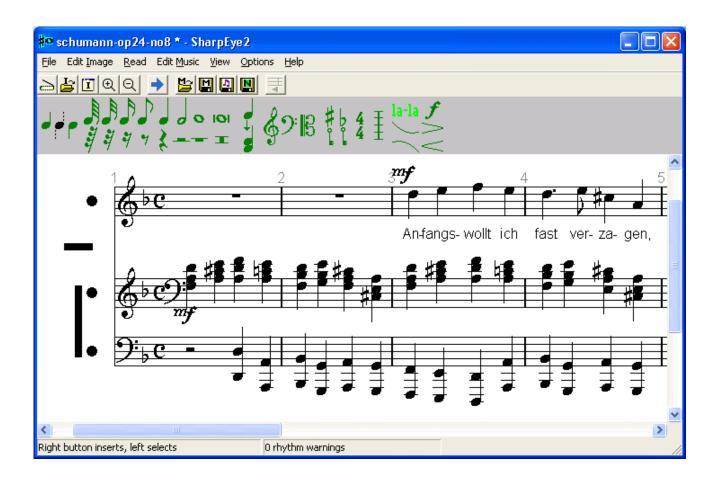


Reading from Music Scanning Software

- In the past, scanning and notation programs were coupled one-to-one:
 - Finale and Musitek products
 - Sibelius and PhotoScore products
- MusicXML enables more competition between scanning programs
- SharpEye Music Reader available now
- Middle C Software under development

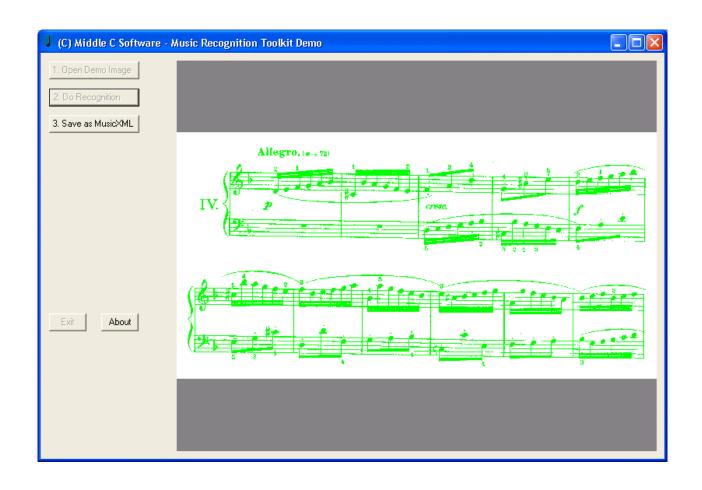


SharpEye Example





Middle C Example



Writing to FreeHand Music Manager

- Downloadable sheet music should travel with you, away from the PC
- FreeHand Systems is introducing its MusicPad Pro – a first generation electronic sheet music reader
- Includes annotations and bookmarks
- Music Manager software simulates the MusicPad interface on a PC



FreeHand Example



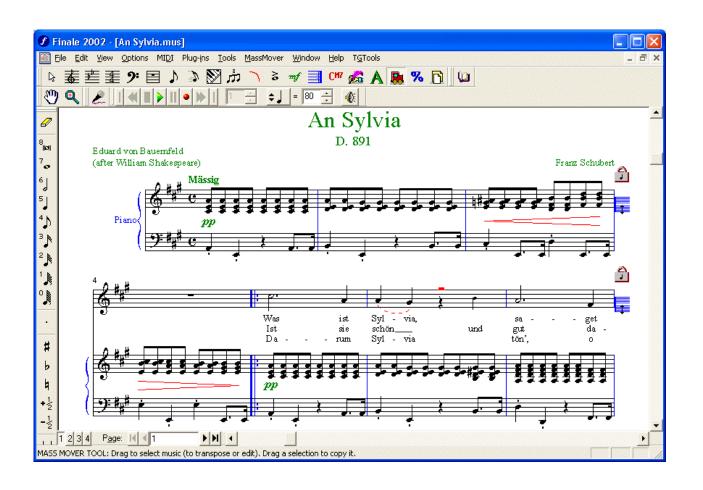
Converting Between Finale Versions



- Earlier versions of Finale cannot read files produced by later versions
- Only interchange possible was via MIDI files
- MusicXML provides much greater Finale forwards compatibility than MIDI



Finale Conversion Example



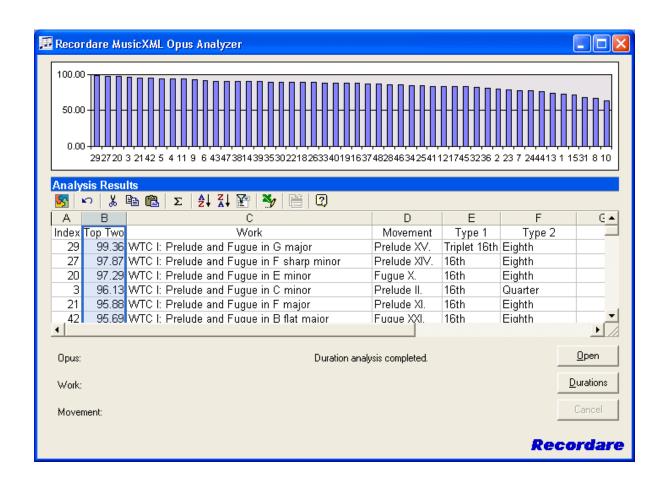
Making Finale Data More Accessible



- Finale files can be exported to MusicXML
- Thus they can be used by programs that read and analyze MusicXML data
- A boon to music analysis research, with greater benefits as more programs support MusicXML



Visual Basic Example





Conclusions

- MusicXML supports a full music data flow from scanner to digital music stand
- Extends Finale's role as the most open music notation software
- Makes Finale files accessible to music analysis applications
- Working to get more support from new and existing music applications