Recordare



Demonstration: Using MusicXML 2.0 to Create Symbolic Data Sets

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Outline

- Issues with using other formats for symbolic music data sets
- Introduction to MusicXML 2.0
- Examples of creating your own symbolic data sets from
 - Finale files
 - Sibelius files
 - PDF files created by notation programs

Other Formats for Symbolic Music Data Sets

MIDI

- Lots of files available
- Very little symbolic data present in format
- Humdrum and MuseData
 - Rich symbolic data
 - Humdrum very well suited for harmonic analysis
 - Limited ability to represent contemporary pop and jazz
 - Limited tools for creating files

What is MusicXML?

- The first standard computer format for common Western music notation
- Covers 17th century onwards
- Available via a royalty-free license
- Supported by over 100 applications, including Finale, Sibelius, Cubase, and music scanners
- Useful for music display, performance, retrieval, and analysis applications
- Based on industry standard XML technology

Products Shipping Now Beta/Prototype Software Sibelius Finale Allegro Cubase **PrintMusic** Nuendo PriMus **MuseData Finale NotePad** Songwriter Humdrum **SmartScore** CapXML MusicXML Library **PROGRESSION** MuseScore **NoteWorthy Composer** NOTION **GUIDO Ossia Viewer Harmony Assistant Encore QuickScore Elite Level II NoteEdit Nightingale Notelist** MIDI **Guitar Pro KGuitar Audimus Notes** Lime M **ProxyMusic JFugue KOffice MagicScore TablEdit Speech Analyzer TaBazar** u **Free Clef Pizzicato** Forte S capella professional SharpEye **PDFtoMusic Pro** Seguoia **Amadeus Music Prototyping Studio Notation Composer** Samplitude abc **Power Tab** capella-scan Rosegarden **PhotoScore Ultimate FOMUS jChing Audiveris** NIFF **BUZZIe AudioScore Professional JMSL** SCORE Middle C ScoreMaker FX2 Max/MSP C **Plaine and Easie TuxGuitar SimpleChord** muscript **Virtual Composer** Django Sibelius First **musicRAIN Sibelius Student** SCORE **MuseBook Score OrganMuse** capella playAlong **Overture** Xenoage **Finale Reader Myriad Music Plug-in Score Writer GLozart BrailleMUSE** Myriad QuickLook Plug-in LilyPond NtEd musicxml2mid **Melody Assistant** abc **FreeDots Melody Player KlavarScript** MelodicMatch **Igor Engraver Shout Music Editor Pro MusicEase Personal Composer** THoTH **Archivarius 3000 Turandot**

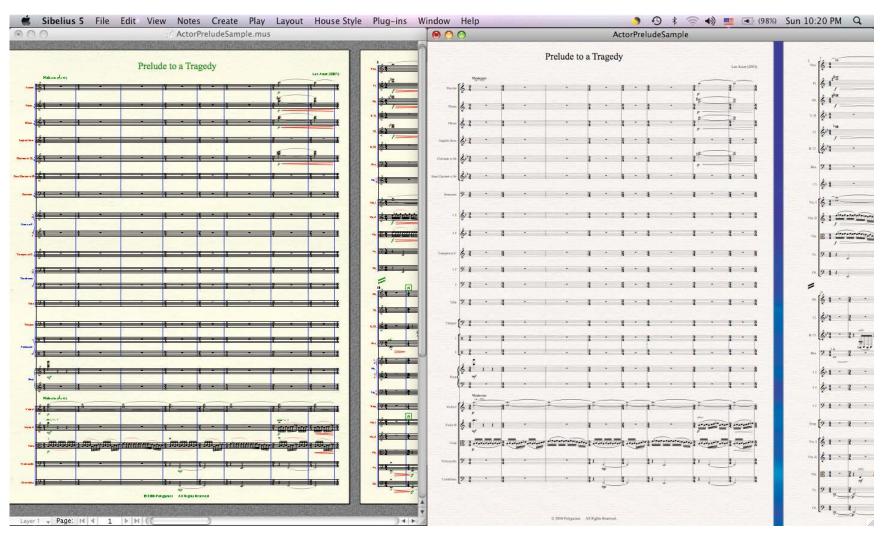
What's New in MusicXML 2.0

- Standard compressed zip format (.mxl)
- A single file can now contain images, audio, bibliographic data, and variants - all linked together
- W3C XML Schema (XSD) definition for more reliable interchange
- 95 new features, including music formatting
- New applications include
 - MelodicMatch for Music IR
 - Free web browser plug-in from Myriad
 - Upcoming Finale NotePad and Finale Reader

Using MusicXML 2.0 for Symbolic Data Sets

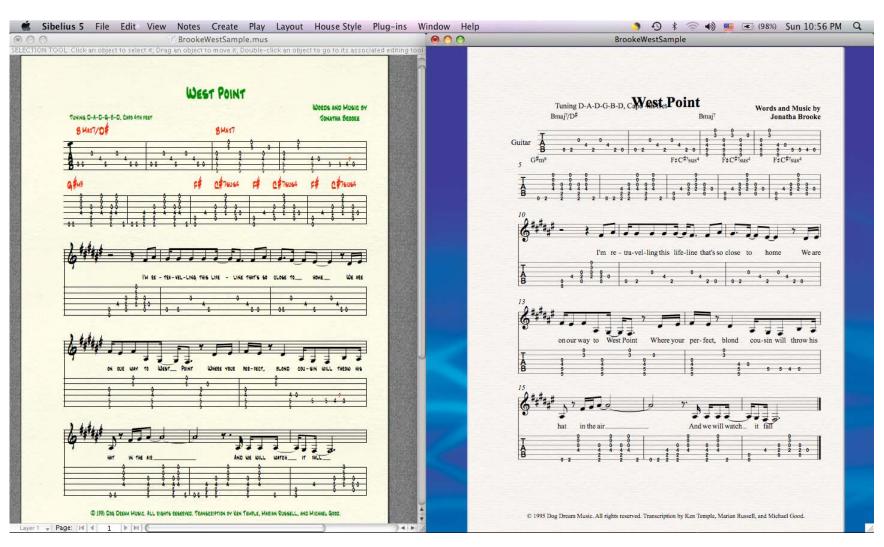
- Represents not just classical music, but contemporary pop and jazz
- You can create data sets using nearly any music notation program
- MusicXML-compatible files becoming more widely available (e.g. Wikifonia, Sheet Music Digital, CPDL)
- MusicXML 2.0 .mxl files are the same size as MIDI files, but contain much more symbolic data

Finale to Sibelius - Orchestral



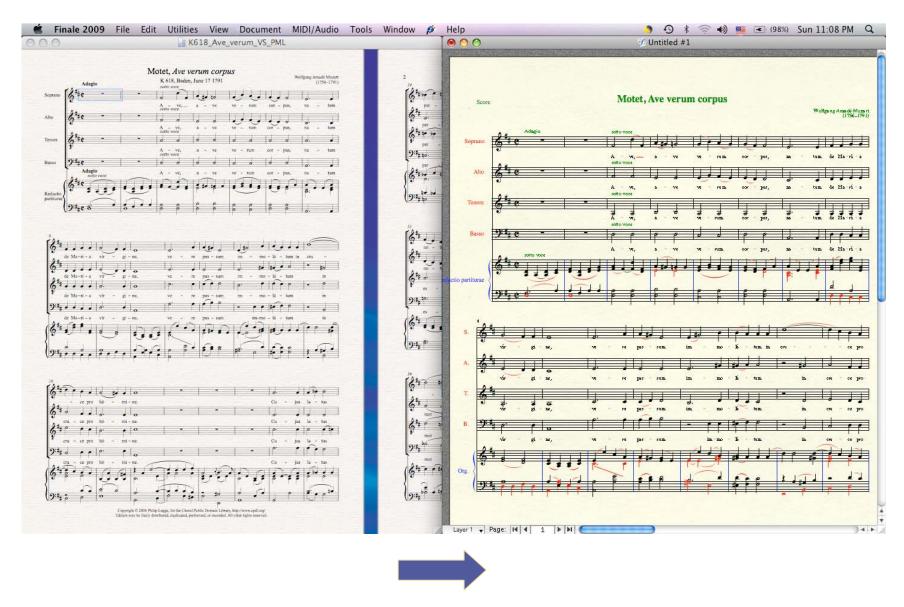


Finale to Sibelius - Tablature

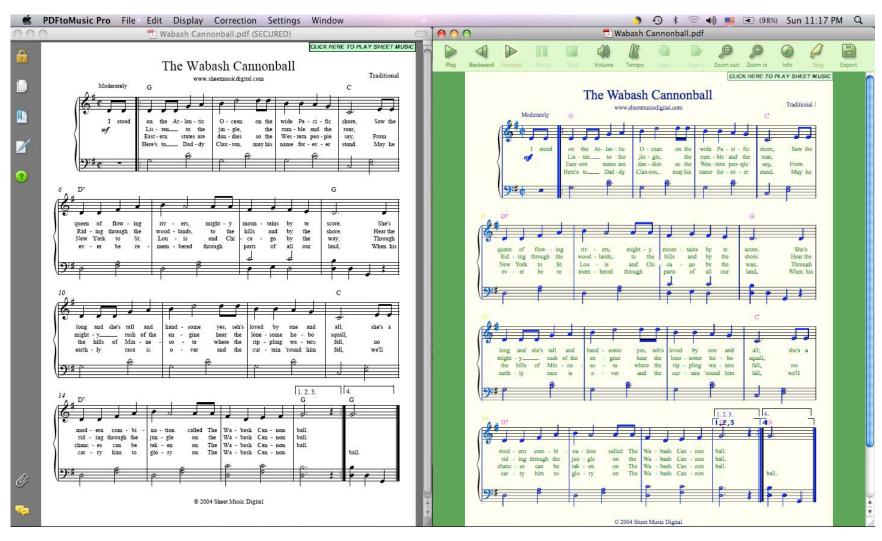




Sibelius to Finale - From CPDL



PDF to MusicXML - Pop





For More Information

- www.musicxml.org/xml.html
- Site includes
 - Specification (MusicXML DTD and XSD)
 - Tutorial
 - Example files
 - Links to MusicXML software
 - Publications list at www.musicxml.org/xml/publications.html
- MusicXML questions?
 - Mailing list signup: www.musicxml.org/lists#MusicXML
 - E-mail to info@recordare.com