Variations2: Moving Beyond Access to Pedagogy

Mark Notess 24 September 2004 IU Digital Library Brownbag Series





Outline

- project overview
- current status
- beyond access to use
- Variations2 demo
- possible future directions
- broader applicability?



Variations2 Overview

- \$3M grant funded by NSF/NEH
- Establish a digital music library testbed system supporting multiple formats: audio, video, score images, score notation
- Develop multiple interfaces for specific user applications in the music library and the classroom
- Conduct research in metadata, usability, copyright, and networking
- Planning to replace VARIATIONS with Variations2 by Summer 2005



Variations2 Staffing

Principal Investigator:

Michael A. McRobbie

Project Investigators (Abridged):

- Kristine R. Brancolini, Director, Digital Library Program
- Kenneth D. Crews, Professor of Law, Associate Professor of Library and Information Science, and Director, Copyright Management Center
- Philip Ponella, Director, William and Gayle Cook Music Library
- Mary Wallace Davidson, Former Head, William and Gayle Cook Music Library
- Jon W. Dunn, Associate Director for Technology, Digital Library Program, and Senior Technology Advisor, University Libraries
- James Lloyd Fern, Assistant Professor of Music and Manager of Online Learning,
 University Information Technology Services
- Harriette Hemmasi, Associate Dean and Director of Technical Services, University Libraries
- Eric J. Isaacson, Associate Professor of Music
- Roberta L. Lindsey, Visiting Assistant Professor of Music, IUPUI
- Jenn Riley, Metadata Librarian, Digital Library Program



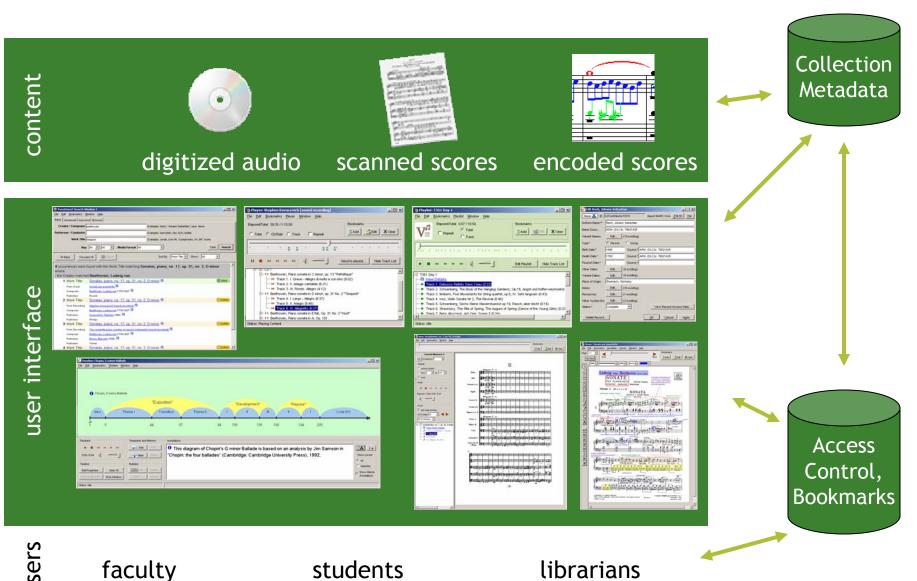
Variations2 Staffing

Project Staff and Graduate Students:

- Andy Barrett, Graduate Assistant, Music Instruction / Oncourse
- Don Byrd, Research Programmer
- Jim Halliday, Software Analyst/Programmer, System Design/Development
- Caitlin Hunter, Graduate Assistant, Metadata
- Jennifer Jobst, Graduate Assistant, Usability
- Inna Kouper, Graduate Assistant, Usability
- Manoj Kulchania, Software Analyst/Programmer, System Design/Development
- Richard Li, Graduate Assistant, System Design/Development
- Mark Notess, Development Manager
- Ryan Scherle, Software Analyst/Programmer, System Design/Development
- Mona Seghatoleslami, Student Hourly Staff, Metadata
- Ann Shaffer, Graduate Assistant, Metadata
- Dallas Smith, Graduate Assistant, Instructional Design
- Brent Yorgason, Graduate Assistant, Music Theory



Variations2 Overview



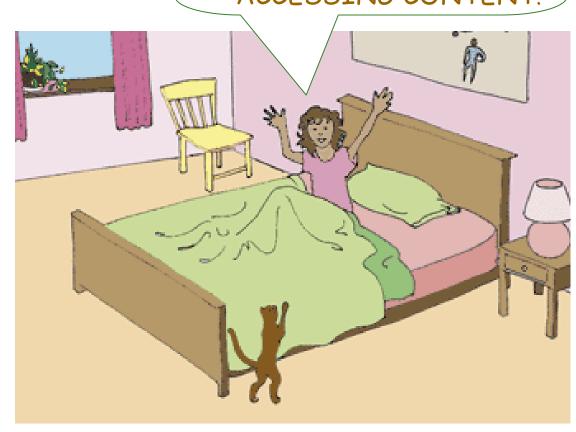
V°Current Status (September 2004)

- 427 recordings & scores
- 660 "creator" records (composers, lyricists...)
- 922 "performers" (individuals, ensembles...)
- 2068 distinct musical works
- Version 3 deployed at IUB and IUPUI
- In third year of pilot projects—6 classes using it this fall
- Pilots include installation of Variations2 client software on students' own computers; access control limits media use outside library to course reserve material



Beyond Access to Use

HEY KITTY, ANOTHER EXCITING DAY OF ACCESSING CONTENT!



What do users want to do AFTER finding what they want?

$abla^{"}$

Beyond Access to Use - Teaching



Teaching

- create course reserves list
- present, analyze, compare excerpts in class
- create/grade assignments
- give quizzes & exams



Beyond Access to Use - Learning



Learning

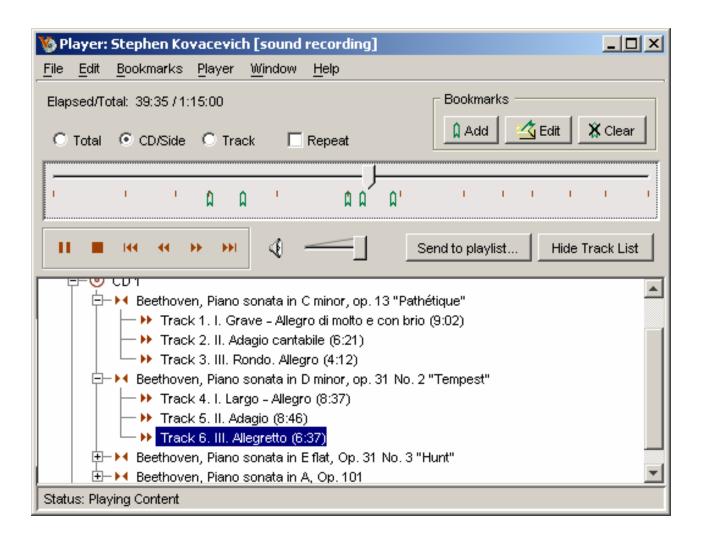
- prepare for class (well, sometimes)
- complete & submit assignments
- prepare class presentations
- study for quizzes & exams



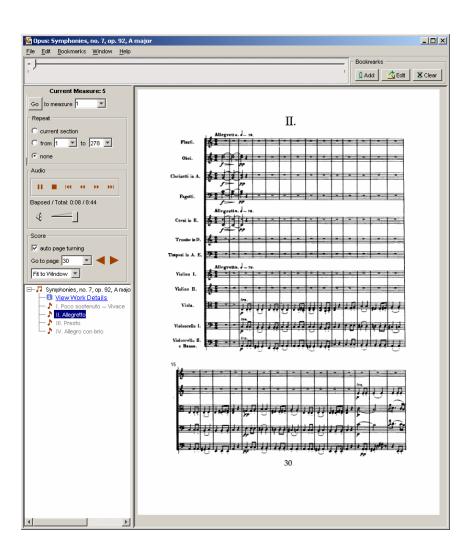
♥ Variations2 Search Window 1			
<u>File Edit Bookmarks Window Help</u>			
Basic Advanced Keyword Browse			
Creator / Composer beethoven		Examples: bach, "Johann Sebastian", moz, faure	
Performer / Conductor		Examples: bernstein, nbc orch, beatle	
Work Title	empest	Examples: sonat, sym 94, "symphonies, H.I, 9	94", hymn
Кеу	All Media Format All	▼	Clear Search
⇔ Back Forwa	rd ➡ Sancel	Sort By: Work Title Show:	All
4 occurrences were found with the Work Title matching Sonatas, piano, no. 17, op. 31, no. 2, D minor where: - the Creator matched Beethoven, Ludwig van			
1. Work Title:	Sonatas, piano, no. 17, op. 31, no. 2	, D minor 📵	■ View
From Score:	Sonate per pianoforte 1		
Composer:	Beethoven, Ludwig van 1770-1827 🗓		
Publisher:	Ricordi		
2. Work Title:	Sonatas, piano, no. 17, op. 31, no. 2,	, D minor 🗓	
From Recording:	Stephen Kovacevich [sound recording]		
Composer:	Beethoven, Ludwig van 1770-1827 🗓		
Performer:	Kovacevich, Stephen 1940- 1		
Publisher:	Philips		
3. Work Title:	Sonatas, piano, no. 17, op. 31, no. 2,	, D minor 🗓	○ Listen
From Recording:	The complete piano sonatas on period instrumen	rts [sound recording] 🗓	
Composer:	Beethoven, Ludwig van 1770-1827 🗓		
Performer:	Bilson, Malcolm 1935- 🗓		
Publisher:	Claves		
4. Work Title:	Sonatas, piano, no. 17, op. 31, no. 2,	, D minor 🗓	○ Listen



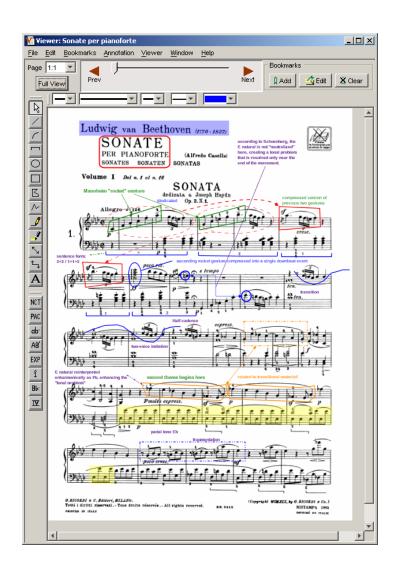




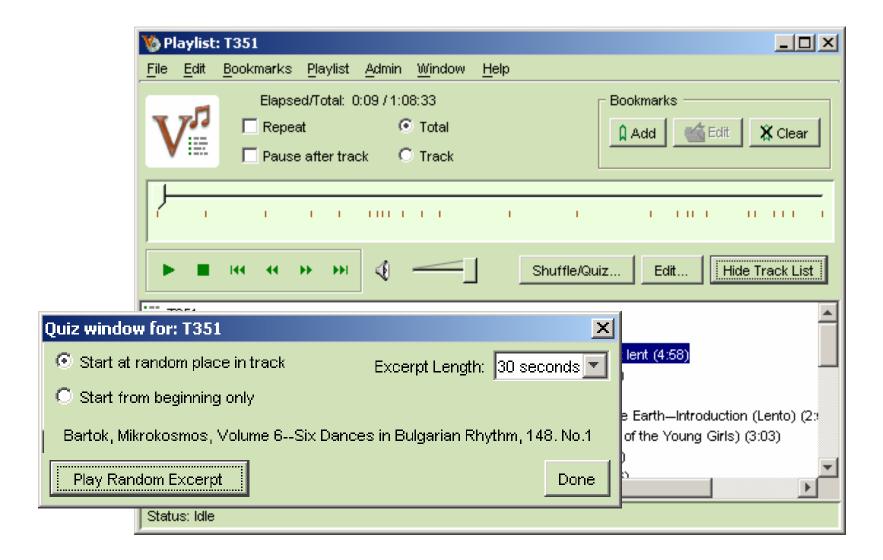




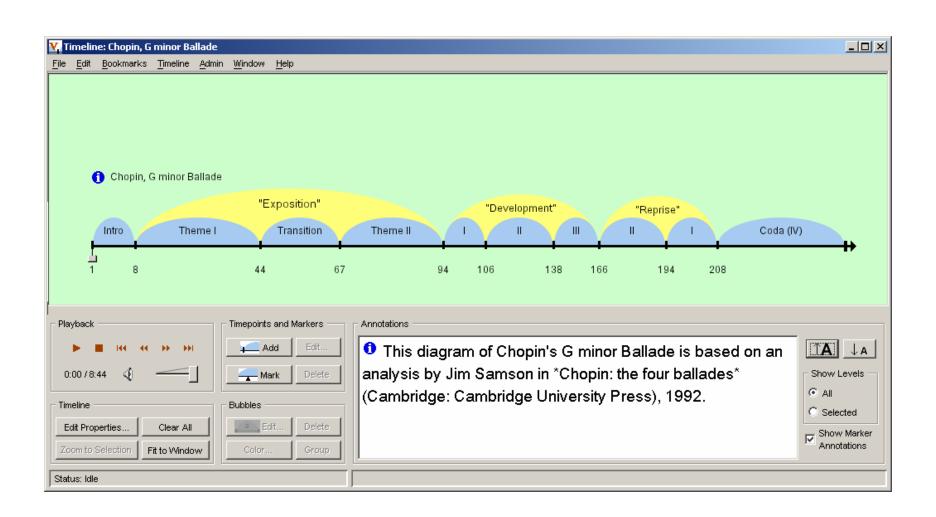














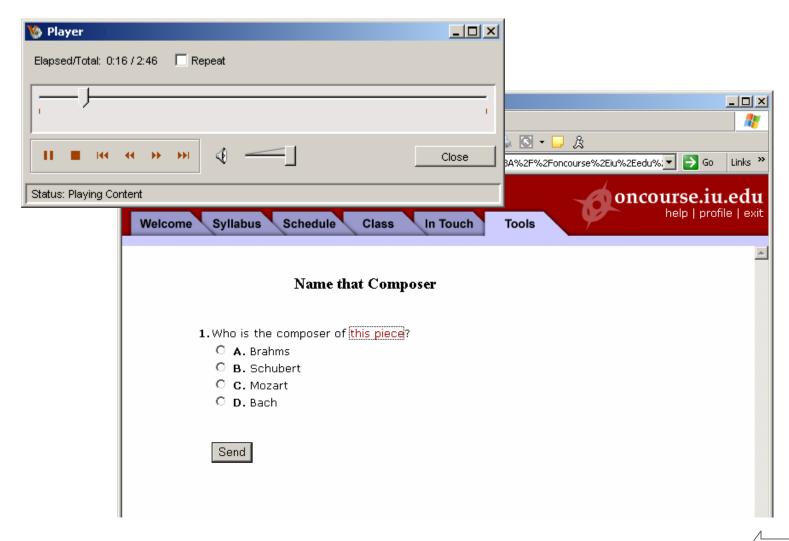
Possible Future Directions

- Oncourse/Sakai-integration
 - quiz/test
 - assignment submittal
- Integration into full presentation framework
 - multimedia presentation for lecture
 - real-time interaction/modification
- Collaboration support, e.g. for online study groups
- Genetically improved syllabi



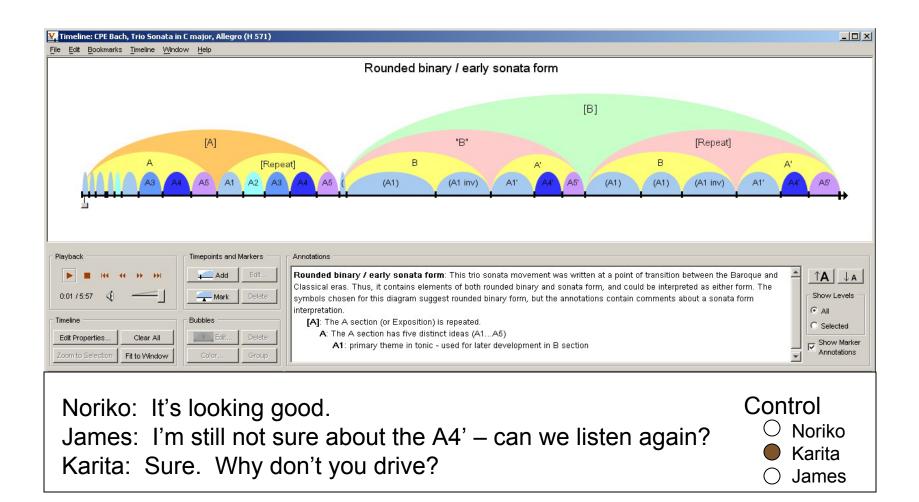


Quiz/Test Integration



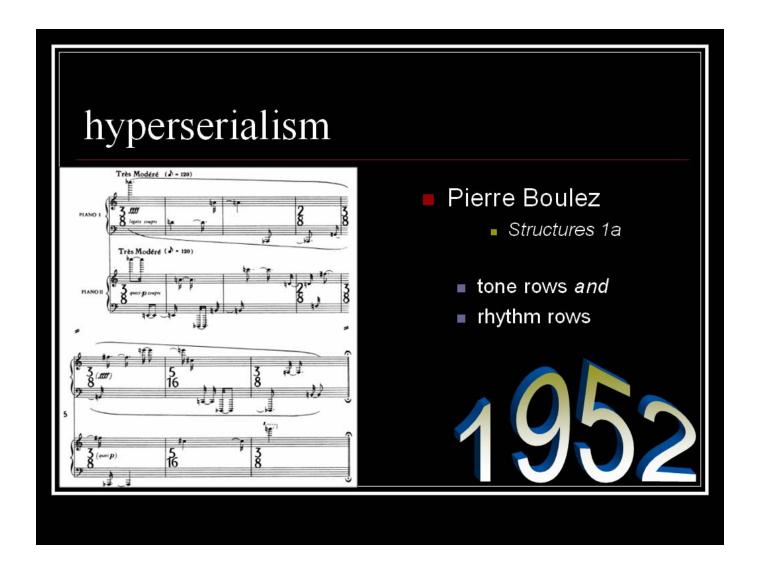


Online Study Groups



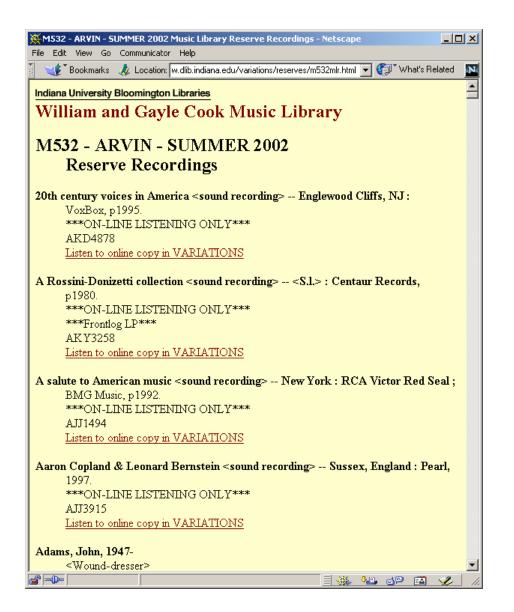


Multimedia Presentation





Today's Syllabi



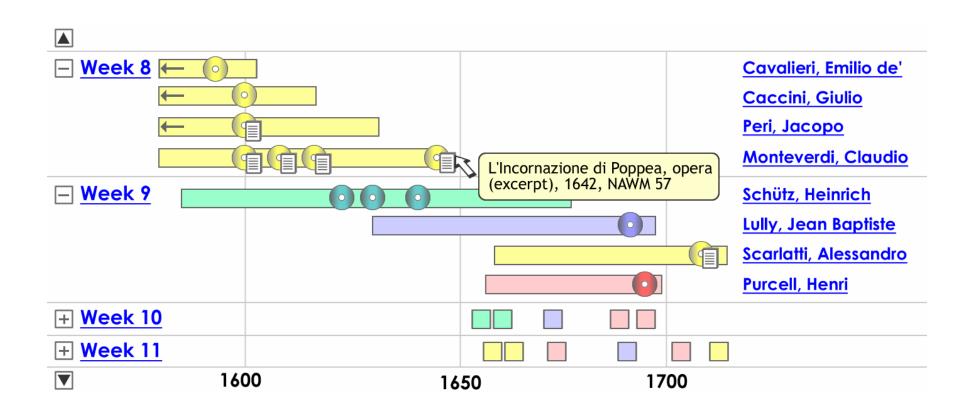
Tuesday, Nov. 5	Schubert	
Thursday, Nov. 7	The Mendelssohns	
Tuesday, Nov. 12	The Schumanns	
Thursday, Nov. 14	Brahms	
Tuesday, Nov. 19	Wolf	
Thursday, Nov. 21	The Mahlers	
Tuesday, Nov. 26	Strauss	

(paper syllabus)

Is there a better way?



Genetically-Improved Syllabi







A Challenge

"The Task Force agreed unequivocally that the faculty, the library, and the IT and instructional design departments need to collaborate in developing sustainable and seamless infrastructure. ... very few institutions have systemically attained such a coherent strategic approach, principally because there is no common shared language on which to build strategic initiatives."

- OCLC-sponsored task force



Other Challenges

- Client-side software installation
- Intellectual property issues
- Sustainability
- Building tools that will be adopted by more than early adopters
- Getting more content in
- Getting more metadata in



Broader Applicability?

Questions for discussion

- What other IU digital library projects have gone beyond access to address use?
- How have non-IU projects done this?
- What tools can be used across disciplines?
- Which opportunities offer the greatest ROI?



More Information

on Variations2

http://variations2.indiana.edu

contact me

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Disclaimer

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