

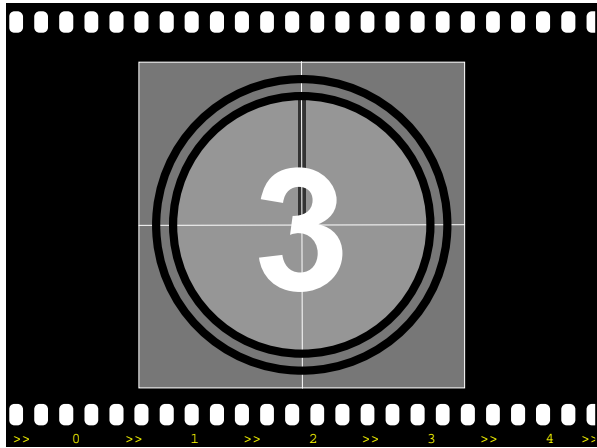
Using Open Source
Software to Develop and
Deliver a Digital Video
Library

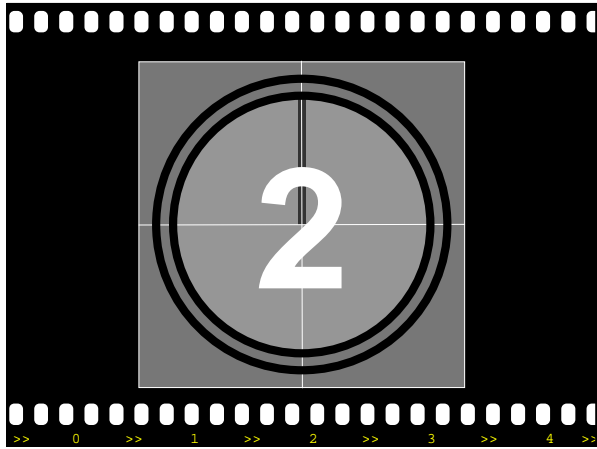
Leanne Strum, Ph.D.
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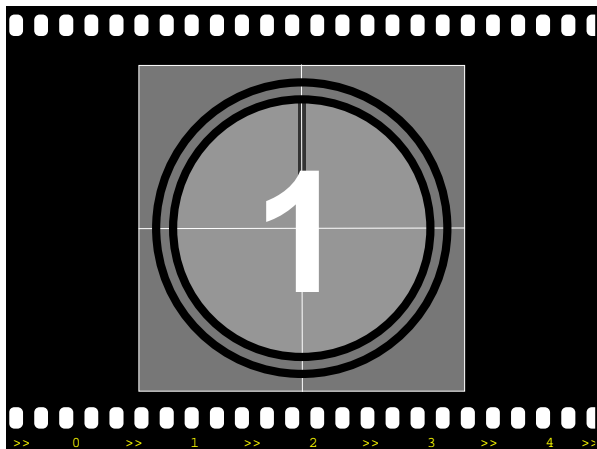
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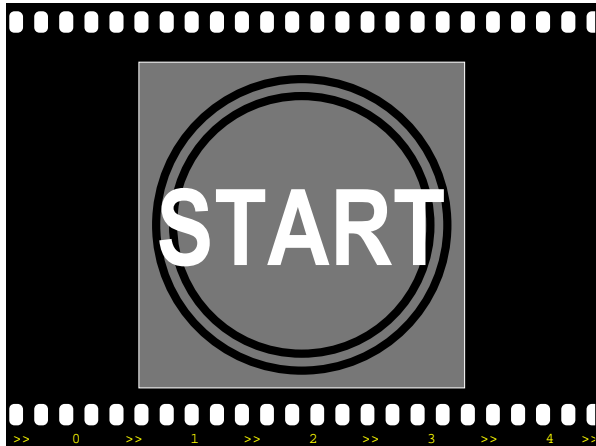
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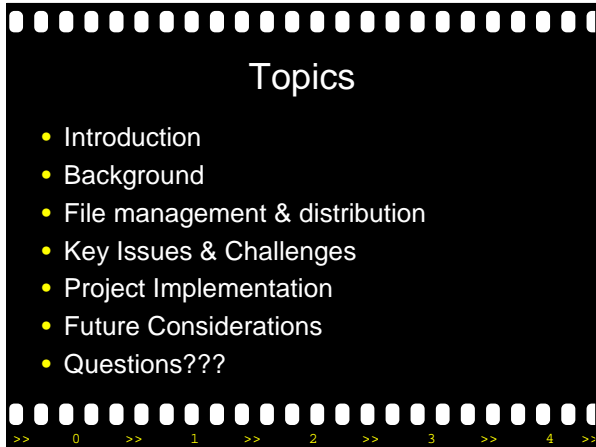
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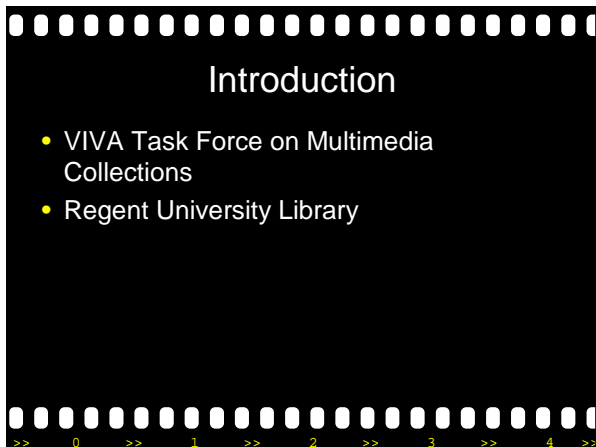












VIVA Task Force on Multimedia Collections

Established to provide secure, reliable online access to VIVA multimedia collection for VIVA member institutions.

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Regent University Library

- Virginia Beach, VA
- Private University
 - Population Served
 - Graduate and undergraduate programs
 - 3400 FTE
- Part of the Virtual Libraries of Virginia (VIVA) -- Privates

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Background

- PBS Collection
- VIVA Task Force Charge

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PBS Collection

- The VIVA PBS streaming video collection includes
 - 498 full-length documentaries representing over 500 hours of video.
 - documentaries by Ken Burns and series such as *American Experience* and *Frontline*.

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PBS Collection

- The collection covers a broad range of disciplines in the humanities, arts, social sciences and sciences.
- The collection is particularly strong in American history and American studies.
- This is the first major multimedia collection licensed by VIVA.

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Task Force Charge

- Forum for exchanging information
- Develop expertise among the members
- Develop recommendations
 - On technical specifications and technical support
 - On cataloging, organizing and preserving digital collections
 - On distribution models and access control

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Task Force Charge...

- Identify human resources, technology investments and organizational structures
- Develop recommendations for user support
- Consider service integration issues – develop recommendations on how to integrate multimedia content with existing library services and campus learning environments.

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File Management & Distribution

- Scenarios
 - VIVA licenses, vendor hosts
 - VIVA purchases and centrally hosts
 - VIVA out sources hosting to members

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Key Issues

- Hosting (Local or Off-site)
- Format(s)
- Encoding
- Access Control/Authentication
- Cataloging, Database Management and Resource Discovery

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Challenges

- PBS Videos can be offered only through network distribution by streaming only.
 - Downloading of videos prohibited
 - No hard copy substitute
- Programs distributed in their entirety.
- Distribution limited to “authorized users.”
- Distribution protected by electronic ID and password .

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Challenges ...

- Inform users of license and copyright law restrictions on program use
- Users may not perform programs for any purpose involving an admissions fee or indirect profit.

➤ Source: VIVA Task Force Committee (3/20/06)

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Project Implementation

- Goal
- Hosting
- Open Source Software: Encoding
- Open Source Software: User Interface
- Open Source Software: Access Control / Authentication
- Cataloging Issues

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Goal

Provide secure, reliable online access to VIVA multimedia collection for VIVA member institutions.
— VIVA

Provide secure, reliable online access to Regent multimedia collections for our students, staff, and faculty.
— Regent University Library

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Hosting

- Two options for accessing the video
 1. joining the InCommon federation and installing Shibboleth software to use the VIVA streaming service , or
 2. setting up a secure server on a VIVA member campus and hosting the video under the terms of the license.

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Our Media Server

- Server: HP dual Xeon 2.4GHz with 2GB RAM with a RAID level 5 disk array with 2TB of usable space
- Operating System: MS Windows Server 2003, Service Pack 1
- Web Server: Apache 2.0.54 (Win 32)
- PHP 5.0.4
- MySQL 4.1.11 -nt

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**Open Source Software:
Encoding**

- Windows Media Format
 - Software used: Sorenson Squeeze \$\$
- Quicktime Format
 - Received from VIVA
 1. Quicktime mp4 300kbit/sec and the size is(400x300)
 2. Quicktime mp4 800kbit/sec and the size is(512x384)

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**Open Source Software: User
Interface**

- Joomla! 1.0.8 Stable

Joomla! is a free, open source content management system for publishing content on the World Wide Web and intranets.

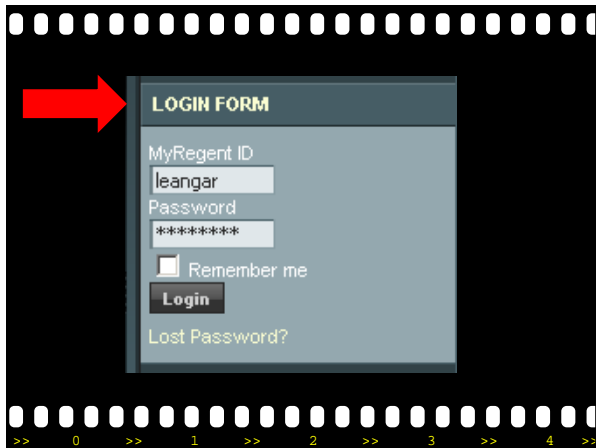
 - Use a component called mosMedia 1.0.8
 - Media database
 - Media template from Joomla!Art

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**Open Source Software: Access
Control/Authentication**

- Ran a Script called Idaphack9
 - To recognize pop3 as an authenticator
 - Our POP is based on LDAP
- All of our content is flagged for registered users only.

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Cataloging Issues

- Cataloging records have been created for each of the individual program episodes.
- Records are in MARC format and were designed to represent items in streaming media format.
- Records comply with OCLC guidelines on cataloging streaming media.

What do the Catalog Records Include?

- Catalog records include
 - basic bibliographic information,
 - production information and credits,
 - a URL to link to the video,
 - a brief description of the video program,
 - a root file name for the video file,
 - notes on access restrictions & requirements and when available,
 - a link to sources of additional information on the PBS web site.
- Example: <http://library.regent.edu/record=b1550908-S0>

Future Considerations

- Shibboleth
- JOOMLA Updates

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Federation

- A federation is a group of organizations which have established a trust relationship and agreed to share resources and services under the terms of that relationship. The trust relationship is governed by a policies, practices and protocols.

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Shibboleth

- Shibboleth is an Internet2 technology for providing secure, private, single sign-on access to federated resources and services.

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InCommon

- InCommon is the primary federation supporting single sign-on federated access to research and educational resources and services in the US.

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JOOMLA Updates

- Upgraded to Joomla! 1.5.6
- Seyret Video Component Pro for Joomla 1.5.6

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Demonstration

Regent University Library

Digital Collections Library

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Credits

Dr. Ralph Alberico, Director, James Madison University & Chair of the VIVA Task Force Committee on Multimedia Collections

Mark Zillges, Systems Manger, Regent University Library

Members of the VIVA Task Force Committee on Multimedia Collections

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Questions???

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The End

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