Digital Libraries (Survey)

Norbert Fuhr
Content

• Introduction to DLs
• Digital Preservation: An Introduction
• Image Digitization
• Introduction to Metadata
• Identifiers and Reference Links
• Interoperability
• Repositories
• Social and Economic factors
• Access
• Multivalent Documents
• Evaluation
Introduction to DLs

(Gary Marchionini)

- Definitions and characteristics of DLs
- Library Extension: Current Digital Library R&D
- Toward Augmentation: The Sharium Model
- The Open Video DL Case
- DL Evaluation
- Implications of DLs
Digital Preservation: An Introduction

(Seamus Ross)

- Background to Preservation
- Obstacles
- Mechanisms for Preservation
- Case study of Electronic Records (e.g. email & digital documents)
- What is Authenticity
Image Digitization
(Anne Kenney)

- resolution and threshold
- bit depth
- image enhancement
- color management
- compression
- system performance
- operator judgment and care
Introduction to Metadata

(Thomas Baker)

• What is Metadata
• Dublin Core
• Encoding Metadata: HTML, XML, RDF
• Metadata Harvesting OAI
• Metadata Infrastructure
• Metadata Landscape
Identifiers and Reference Links

(William Arms)

• Properties of handles

• Elements of the handle system

• Application of identifiers
Interoperability

(arms)

- Heterogeneous distributed systems
- DIENST
- Standardization
- Z39.50
Repositories

(Arms)

- Layers and interfaces
- Object models
- Protocols
- Access management
Access Management

(Arms)

- Copyright
- Digital objects
- Users and roles
- Permitted operations
- Enforcement
- Roles and permitted operations
- Policies
- Encryption
- Authentication
- Subsequent use
Social and Economic Factors

(Lin)

- Social factors
- Dissemination
- Intellectual property
- Economic factors
- Knowledge economy
Multivalent Documents (Phelps/Wilensky)

- Functionality and architecture
- Browser
- Behaviors
- data structures
- Protocols
- Events
- GIS viewer
Evaluation

(Saracevic)

- State of the art in evaluation
- construct
- context
- criteria
- measures
- methods