



**Advanced workshop
on the
Greenstone
Digital Library
Software**

**University of Namibia
Monday 1 Oct 2007 – Friday 5 Oct 2007**

**Ian Witten (University of Waikato)
Repke de Vries (Netherlands National Library)
Renate Morgenstern (University of Namibia)**

Notes prepared by
New Zealand Digital Library Project
Computer Science Department
University of Waikato
New Zealand
nzdl.org
2007

Schedule

Monday 1 October 2007

Morning: Introductions and overview

Introductions: participants introduce themselves and their planned DL projects

Discussion: where the raw material for a DL might come from

Lecture: Overview of Greenstone, with examples of its use elsewhere

Lab 1 (Review) Installing Greenstone, building collections, adding metadata

1.1 Installing Greenstone (local library version)

1.2 Updating a Greenstone installation

1.3 Small collection of HTML files

1.4 Simple image collection

1.5 Collection of Word and PDF files

1.6 Exporting a collection to CD-ROM/DVD

Afternoon: Greenstone collection design

Lab 2: Designing collections

2.1 A large collection of HTML files—Tudor

2.2 Enhanced collection of HTML files—Tudor

Lecture (Renate): CDS/ISIS and Greenstone

Lab 3: Collections of bibliographic material

3.1 Bibliographic collection

3.2 CDS/ISIS collection

Tuesday 2 October 2007

Morning: Introduction to iMARK

Lecture (Repke): Intro to iMARK Digitization and Digital Libraries Units 1/2
(covers copyright, and electronic documents and formats)

iMARK Lab 1: Familiarization with iMARK

Lab 4: Greenstone formatting exercises

4.1 Formatting the HTML collection—Tudor

4.2 Formatting the Word and PDF collection

Lecture: Advanced collection configuration: formatting, section tagging,
advanced PDF handling, exploding bibliographic collections

Lab 5: Advanced collection configuration

5.1 Pointing to documents on the web

5.2 Enhanced PDF handling

5.3 Enhanced Word document handling

5.4 Section tagging for HTML documents

Wednesday 3 October 2007

Morning: Digitization

Demo (Renate): Scanning and OCRing with ABBY FineReader

Lecture (Repke): Intro to the iMARK Digitization and Digital Libraries Unit 4
(covers digitization and document handling)

iMARK Lab 2: Familiarization with iMARK

Lecture: Sharing collections with OAI-PMH

Lab 6: Sharing collections with OAI-PMH

6.1 Open Archives Initiative (OAI) collection

6.2 Downloading over OAI

Afternoon: Greenstone collections of multimedia and scanned images

Lecture: Two examples—multimedia and scanned images

Lab 7: Two examples—multimedia and scanned images

7.1 Looking at a multimedia collection

7.2 Building the multimedia collection

7.3 Scanned image collection

7.4 Advanced scanned image collection

Thursday 4 October 2007

Morning: Student projects

Project 1: students work on collections of their own material
(or on the material scanned during the Scanning demo)

Afternoon: Greenstone customization

Lecture: Customization: macro files and stylesheets

Lab 8: Customization

8.1 Customization: Macro files and spreadsheets

Friday 5 October 2007

Morning: (Repke) Logistics and promotion

Uses iMARK Unit 5.1 “Creating a digital library collection”
and Unit 5.2 “Facilities and requirements”

Lecture: Planning, organizing, financing and promoting digital libraries

Discussion: Experience of participants and other case studies

Afternoon: Student projects and wrap-up

Project 2: Students work on collections of their own material

Discussion of Greenstone support organization and needs

Discussion of lessons learned and their implications for future workshops

Materials

1. Workbook containing
 - Introduction
 - Greenstone Digital Library Software factsheet
 - PowerPoint slides for all workshop sessions
 - Laboratory exercises
 - How to format the output of your collection
2. Tutorial CD-ROM containing
 - Greenstone software v2.74
 - Documented example collections (14, including Greenstone Wiki collection)
 - Full documentation (4 manuals, each in English, French, Spanish and Russian)
 - Java runtime environment
 - ImageMagick (required for building image collections)
 - Ghostscript (required for advanced PDF/PPT conversion)
 - Windows installer for all this (+ .zip installs for Linux, Mac)
 - Workshop materials
 - Tutorial exercises
 - Sample files for tutorial exercises
 - Full source code
3. iMARK CD-ROM Module *Digitization and Digital Libraries*
4. CD-ROM put together by Repke with case studies, checklists, etc.
 - Includes Sun's "The Digital Library Toolkit"

Sample files for tutorial exercises

- Small set of HTML files (*simple_html*)
- Word and PDF documents (*Word_and_PDF*)
- Difficult PDF documents (*difficult_documents*)
- Image files (*images*)
- Large set of HTML files (*tudor*)
- MARC records (*marc*)
- Multimedia collection (*beatles/advbeat_large*)
- Small multimedia collection (*beatles/advbeat_small*)
- Scanned image collection (*niupepa*)
- Files exported from OAI (*oai*)
- Files exported from DSpace (*dspace*)
- CDS/ISIS files (*isis*)
- Files for interface customization exercise (*custom*)

Further documentation on the Tutorial CD-ROM

- Greenstone Digital Library Installation Guide
- Greenstone Digital Library User's Guide
- Greenstone Digital Library Developer's Guide
- Greenstone Digital Library: From Paper to Collection