Information Management Resource Kit

Module on Digitization and Digital Libraries

UNIT 6. EXAMPLE OF DIGITAL LIBRARY SOFTWARE: GREENSTONE

LESSON 4. DOCUMENTED EXAMPLE GREENSTONE COLLECTIONS

NOTE

Please note that this PDF version does not have the interactive features offered through the IMARK courseware such as exercises with feedback, pop-ups, animations etc.

We recommend that you take the lesson using the interactive courseware environment, and use the PDF version for printing the lesson and to use as a reference after you have completed the course.



Learning Objective

At the end of this lesson you will able to:

• identify the role of the **collection configuration file** in the Greenstone collection building process, and

• identify a source for learning more about the **customization of collections** built using Greenstone.





папи	ng User Interface Features
arious fe	atures are available for the user interface. How does Greenstone manage them?
Collec	tion Searching
	rt various search features, Greenstone builds indexes for different components of
	cuments, including words from the full text as well as text associated with various fields, at the time of collection building.
metadata	
metadata The requi	fields, at the time of collection building.





You probably noticed that the search, browse and presentation features are mainly determined by the collection configuration file (collect.cfg).

Each Greenstone collection has its own collection configuration file, which acts as a collection model to serve specific types of source documents with specific indexing, browsing, and search features.

Greenstone uses the collect.cfg file during the collection building process, to construct search and browse structures and also during presentation of results.

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COMPONENTS OF	CONFIGURATION FILE				
creator	E-mail address of the collection's creator				
maintainer	E-mail address of the collection's maintainer				
public	Whether collection is to be made public or not				
beta	Whether collection is beta version or not				
indexes	List of indexes to build (used in searching)				
defaultindex	The default index				
subcollection	Define a subcollection based on metadata				
indexsubcollections	Specify which subcollections to index				
defaultsubcollection	The default indexsubcollection				
languages	List of languages to build indexes in				
defaultlanguage	Default index language				
collectionmeta	Defines collection-level metadata				
plugin	Specify a plugin to use at build time (to extract text and convert it into GA format)				
format	A format string - to control presentation of results				
classify	Specify a classifier to use at build time – for building browse structures				
searchtype	specify plain or form-based searching				





Example Collections simple image Simple image collection: This is a very basic image collection containing no text and no explicit metadata. The configuration file is probably the simplest! collection Simple image collection Bibliography Collection: This has about 4,000 bibliography (BibTeX) entries made bibliography from the Computational Learning Theory (COLT) Bibliography. This collection collection incorporates a form-based search interface that allows fielded searching. It also supports browsing by 'dates' and 'phrases'. Collection configuration is fairly complex. Bibliography collection (with fielded searching) OAI OAI Example: This collection demonstrates Greenstone's ability to retrieve ('harvest') metadata from an OAI-compliant (Open Archives Initiative example interoperability protocol). This collection consists of metadata retrieved from a collection of photographs taken at the inaugural Joint Conference on Digital OAI demonstration collection Libraries







Exercises

The following three exercises will help you test your understanding of the concepts covered in the lesson and provide you with feedback.

Good luck!



Exercise 1 What happens "behind the scenes"?			
To provide the following features	To provide the following features		
COLLECTION SEARCHING	COLLECTION SEARCHING		
DOCUMENT BROWSING	DOCUMENT BROWSING		
PRESENTATION OF SEARCH RE	PRESENTATION OF SEARCH RESULTS		
MULTILINGUAL SUPPORT	Γ		
macros stored in files .dm indexes	fc	rmat strings	
Click on each option and click on	drag it to the co Check Answer.	prrect box. Then	





If you want to know more ...

Online resources:

Ian H. Witten et al. Inside Greenstone collections. Department of Computer Science, University of Waikato, New Zealand. June 2003. http://www.cs.waikato.ac.nz/~ihw/greenstone/inside.pdf

New Zealand Digital Library website: http://www.nzdl.org

Home page customization:

Customizing your collection. In: Greenstone training workshop material. Greenstone Digital Library Project and NCSI, IISc. 2003 (document gsdl-6-Home-page-etc.pdf). http://www.greenstone.org/

Customizing the Greenstone User Interface. An illustrated guide to customizing the Greenstone user interface. Written by Allison Zhang of the Washington Research Library Consortium. http://www.wrlc.org/dcpc/UserInterface/interface.htm

