

Format Statements: Components

❖ HTML

❖ [Text] displays document text

❖ [Title],[Howto] ... displays metadata

❖ [link] ... [/link] links to document

[srclink] ... [/srclink] links to original file

ficon], [srcicon]
page/book/bookshelf

source icons

If and Or statements conditional processing

Format Statements

{If}{test, if true, if false}

❖ Test can be:

[metadata] exists

[metadata] eq 'value' equalS

[metadata] ne 'value' NOT equalS

Examples

```
{If}{[ex.Source],(<i>[ex.Source]</i>)}
```

{If}{[numleafdocs],[ex.Title],[dc.Creator]}

{If}{[ex.FileFormat] eq PDF, [srclink] PDF

document [/srclink]}

Format Statements

```
{Or}{[metadata1],[metadata2],...
```

- Chooses the first metadata that exists
- ❖ Last item can be plain text
- Examples

```
{Or}{[dls.Title],[dc.Title],[ex.Title],Untitled}
{Or}{[ex.thumbicon],[ex.srcicon]}
```

HTML page

```
<html>
    <head>
        <title>The page title</title>
        </head>
        <body formatting-attributes>
            Page content goes here
        </body>
        </html>
```

HTML elements

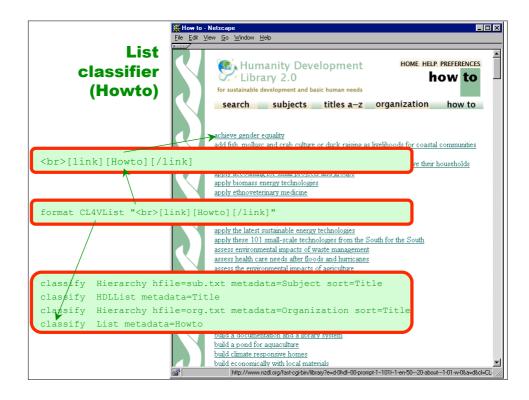
```
<b>Bold</b>, <i>italics</i>, <u>underline</u>
<br/>
<br/>
    a line break

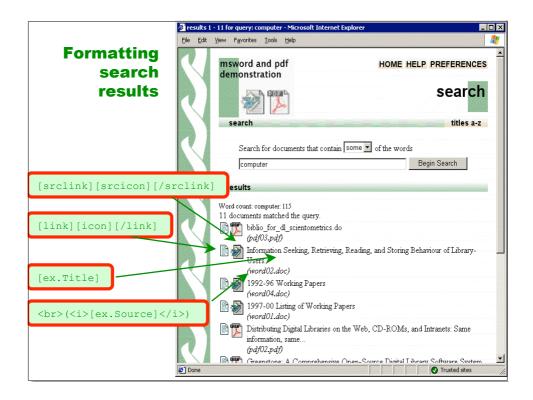
a paragraph
cell content
<a href="link address">link text</a>
<img src="path to image"/>
```

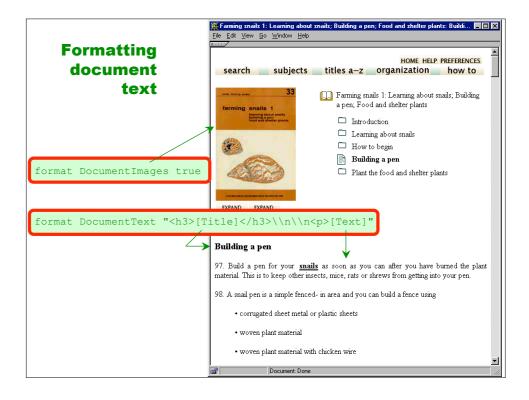
Format statements

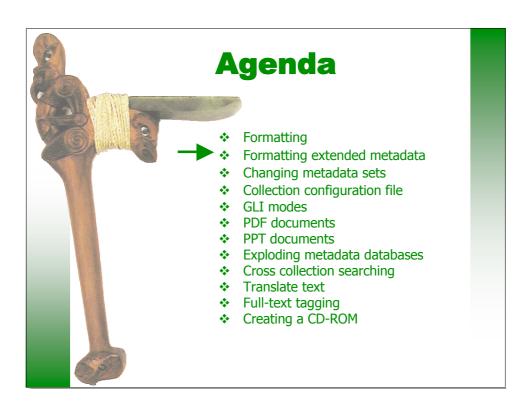
- Defaults provided to give reasonable results for most cases
- ❖ Interpreted at run-time no need to rebuild
- More information: FAQ

http://www.greenstone.org/cgi-bin/library?
a=p&p=fagcustomize#customizeformat









Extended metadata

* Basic metadata:

[Title], [Source] (extracted)
[dc.Subject], [dls.Organization] (manually assigned)

Extended metadata:

[parent:Title] (Title of parent section)
[parent(Top):dc.Title] (dc.Title of document, i.e. top section)
[sibling:Subject] (all Subjects of current section)
[child:Author] (Author of first child section)
[child(All):Author] (Author of all children)

Formatting:

Sibling(All' and '):Subject

(between quotes can specify a separator)

Format statements: Extended metadata

Snail Farming

Subject: Agriculture Subject: Farming Subject: Cuisine

1. Introduction

1.1 Snails are good to eat

1.2 What is snail farming?

2. Getting started

2.1 How to prepare the pens

Format statements: Extended metadata

Snail Farming

Subject: Agriculture Subject: Farming Subject: Cuisine

1. Introduction

1.1 Snails are good

to eat

1.2 What is snail farming?

2. Getting started

2.1 How to prepare

the pens

Subject Agriculture

sibling:Subject Agriculture,

Farming, Cuisine

sibling(last):Subject Cuisine

Sibling(All' and '):Subject

Agriculture and Farming and Cuisine

child:Title Introduction, **Getting Started**

child(2):Title Getting started

Format statements: Extended metadata

Snail Farming

Subject: Agriculture Subject: Farming Subject: Cuisine

1. Introduction

1.1 Snails are good to eat

1.2 What is snail farming?

2. Getting started

2.1 How to prepare the pens

parent:Title parent(Top):Title parent(All):Title

Introduction **Snail Farming** Snail Farming, Introduction of

Parent(Top):Subject Agriculture Parent(Top):sibling:Subject

> Agriculture, Farming, Cuisine

Parent(Top):sibling(All' and '):Title Agriculture and

Farming and Cuisine

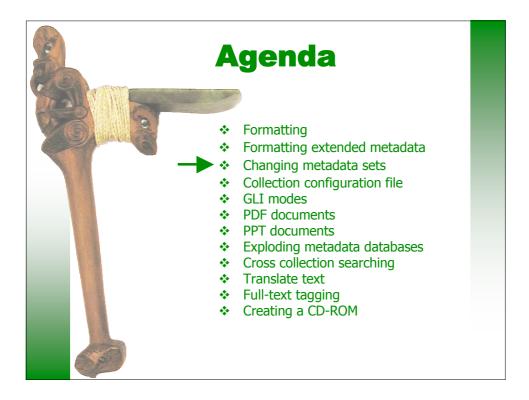
Format statements: Combining If and Or

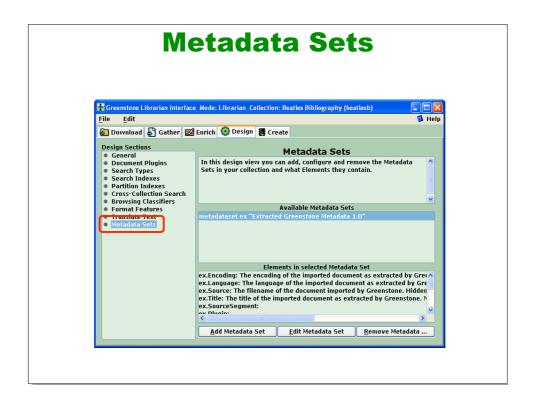
- {If}{test, if true, if false}
- {Or}{[metadata1],[metadata2]...}
- ❖ {Or} can have a conditional as the last element:

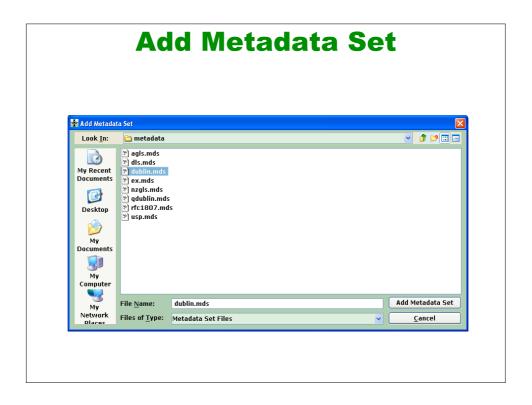
Format statements: Combining If and Or

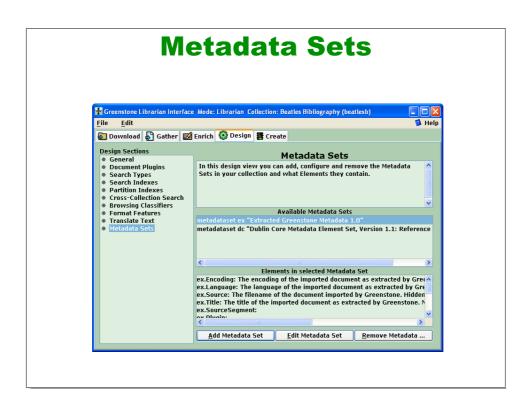
- {If} can have another conditional at 'true' or 'false' position
- * {If}{[numleafdocs],[Title],
 [dc.Title]{If}{[Date],: [Date]}
 {If}{[Subject], ([Subject], unclassified)}}

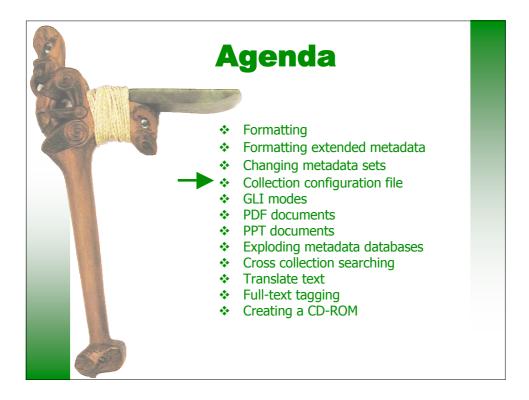
Snail farming: 26 Jun 1998 (Small Animal Farming)











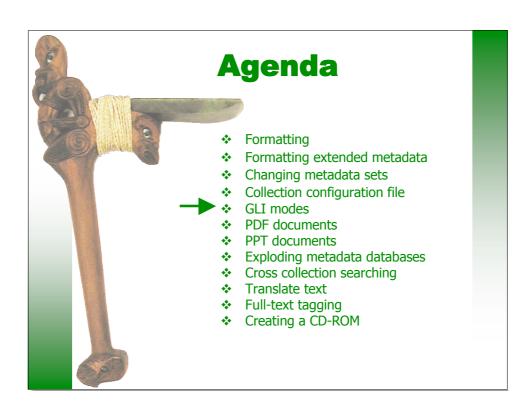
Collection configuration file creator sjboddie@cs.waikato.ac.nz maintainer sjboddie@cs.waikato.ac.nz public beta true indexes section:text section:Title document:text ❖ name, icon, etc *description plugin ArcPlug **♦ email of creator** plugin RecPlug *search indexes classify Hierarchy hfile=sub.txt metadata=Subject sort=Title HDLList metadata=Title **♦ plugins** classify Hierarchy hfile=org.txt metadata=Organization sort=Title List metadata=Howto classify *classifiers SearchVList "[link][icon][/link] SearchVist 'td Valigh=top/[link][ron][/link] \{If}\{[parent(All': '):Title], [parent(All': '):Title]: \} \{link\}[Title][/link\] \{link\}[Title][/link\] CL4VList "\dry\[link\][Howto][/link\]" DocumentImages true DocumentText "\dry\[link\] Text]" how to format *documents collectionmeta collectionname "greenstone demo" collectionmeta collectionextra "This is a demonstration collection for the *query results Greenstone digital library software.\nIt contains a small subset (11 books) of the Humanity Development Library" collectionmeta iconcollectionsmall "/gsdl/collect/demo/images/demosm.gif" *classifiers collectionmeta iconcollection "/gsdl/collect/demo/images/demo.gif" collectionmeta .section:Title "section titles" collectionmeta .section.itte section title collectionmeta .document:text "entire books" collectionmeta .section:text "chapters"

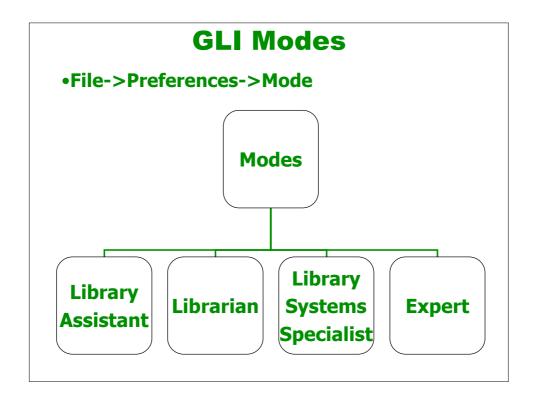
Documentation and Help

User's Guide (user.pdf)

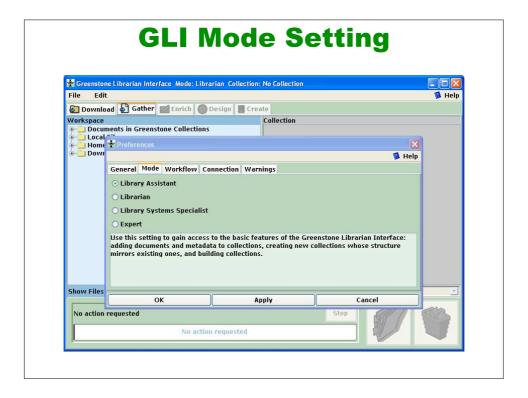
Includes substantial sections on the GLI (Sections 3.1 and 3.2, 36 pp)

- ❖ Tooltips
- ❖ On-line help









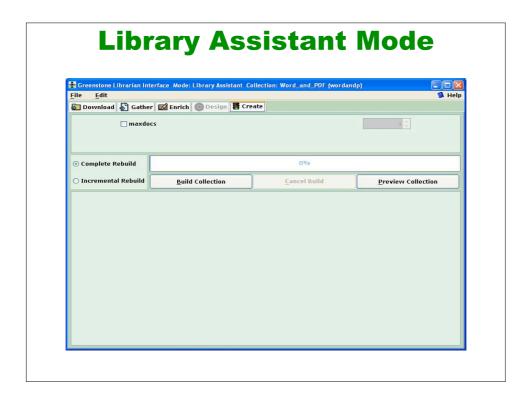
GLI Modes

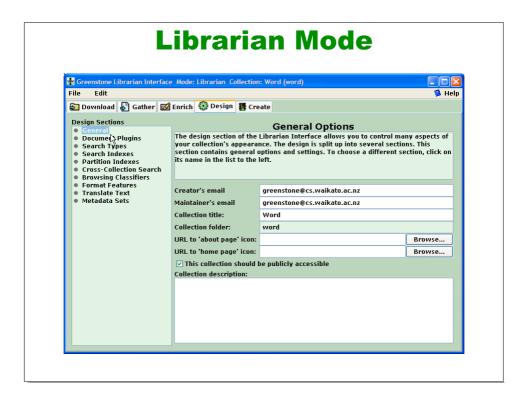
Library Assistant

- Access to basic features: creating new collections; adding documents and metadata; building collections
- No design functions are available

Librarian

- Basic features + Design





GLI Modes

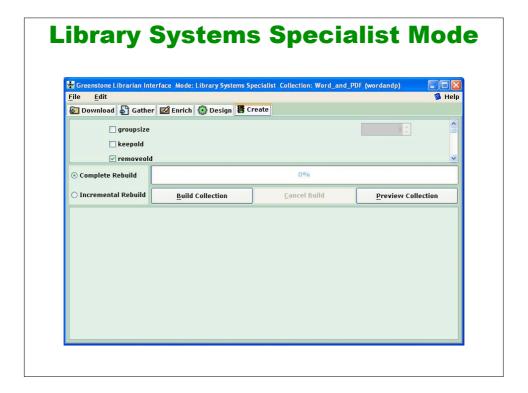
Library Systems Specialist

- Full use of GLI
- Formulate regular expressions to make use of formatting features
 - ❖For example: HTML block expression

q^(?i)\.(gif|jpe?g|jpe|png|css)\$^

Partial options for import and building

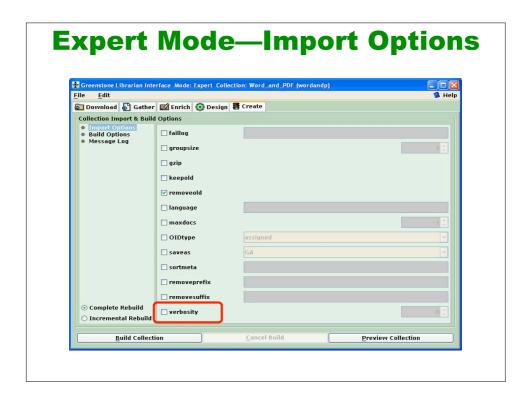
Library Systems Specialist Mode Greenstone Librarian Interface Mode: Library Systems Specialist Collection: Word (word) File Edit 🔂 Download 🎝 Gather 🌠 Enrich 🚷 Design 📳 Create Design Sections General Plugin Selection & Configuration Use this view to add, configure or remove plugins from your collection. To add one choose it from the combobox and click 'Add Plugin'. Search Types 🥦 Help Please configure the arguments for HTMLPlug. HTMLPlug ✓ process_exp (?i)(\.html?|\.shtml|\.shm|\.asp|\.php\d?|\.cgi|.+\?.+=.*)\$ ✓ block_exp (?i)\.(gif|jpe?g|jpe|jpg|png|css)\$ nolinks keep_head 🔲 no_metadata metadata_fields ☐ hunt_creator_metadata file_is_url (?i)\.(gif|jpe?g|jpe|jpg|png|css)\$ rename_assoc_files

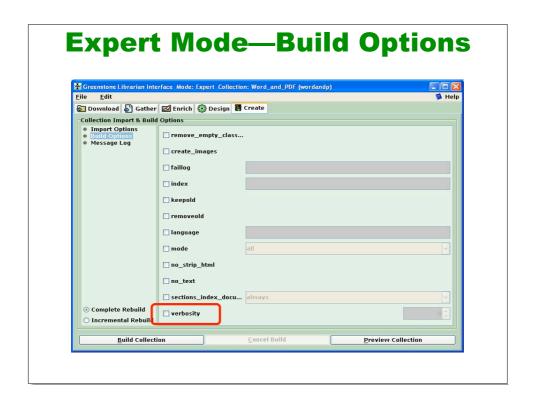


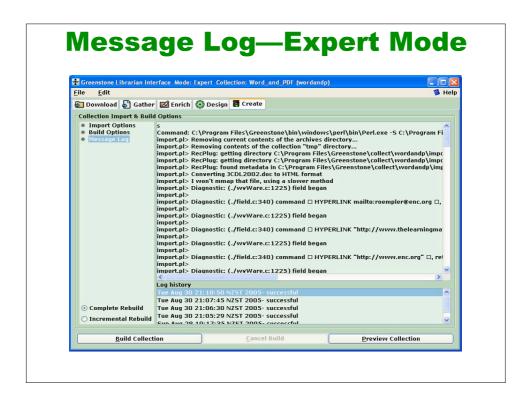
GLI Modes

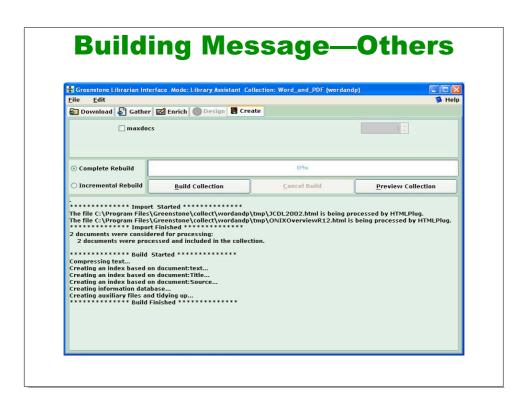
Expert

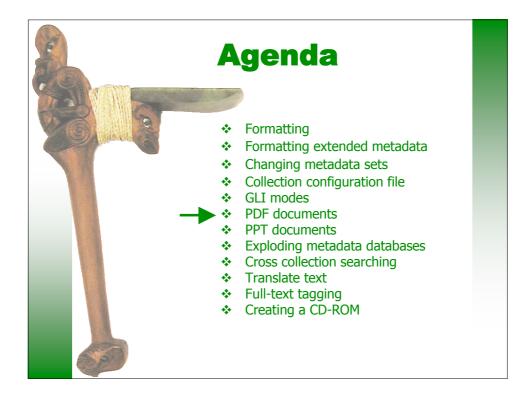
- All features are enabled
- Recommended for experienced users
- Perform troubleshooting tasks
- Options to control the import and build processes
- Shows the output from the processes









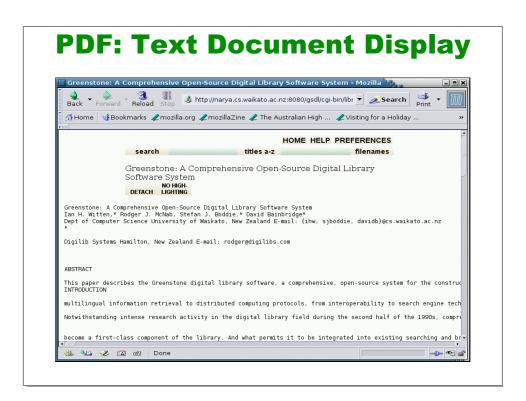


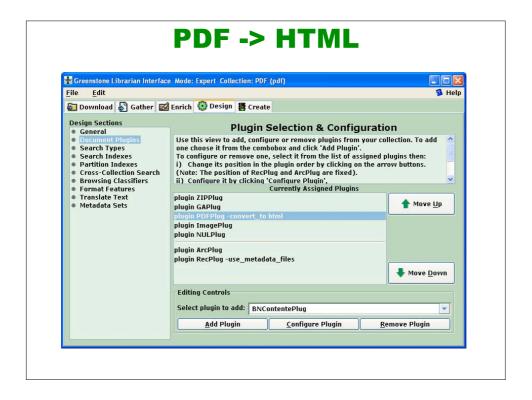
PDF Document

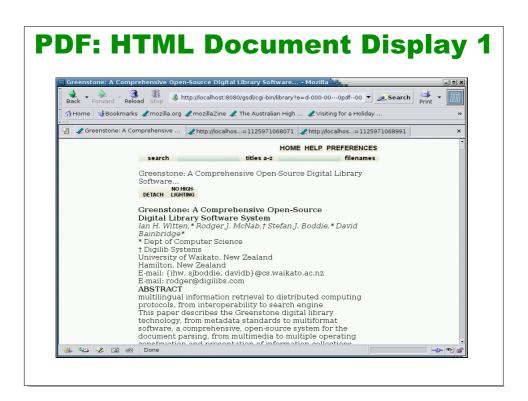
- PDF conversions in Greenstone
 - 1. Text only for Unix system
 - 2. HTML
 - use_sections option
 - complex option
 - 3. Image
 - ImageMagick needs to be installed
 - For advanced conversions, GhostScript must be installed
 - Use of convert utility
 - Convert_to

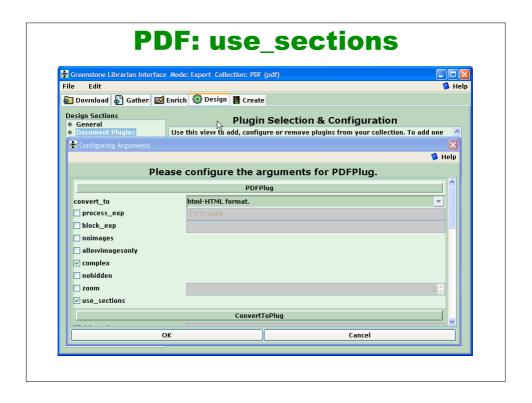
pagedimg_jpg
pagedimg_gif
pagedimg_png

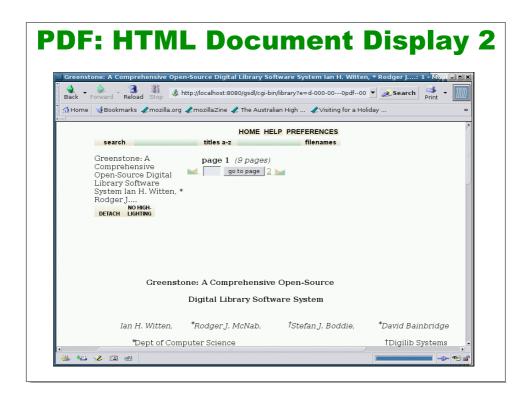


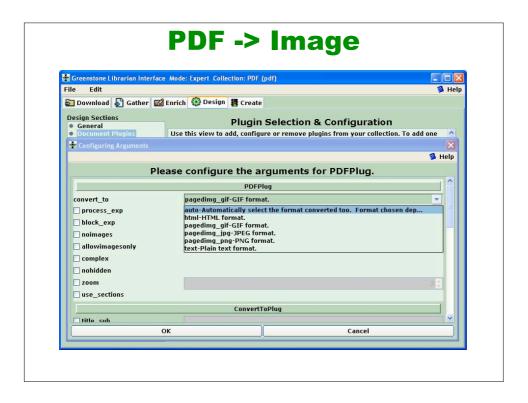


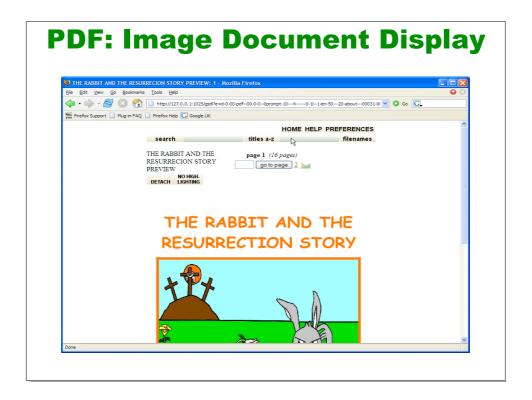


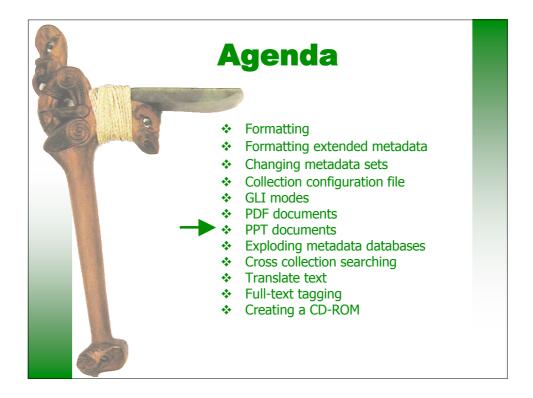






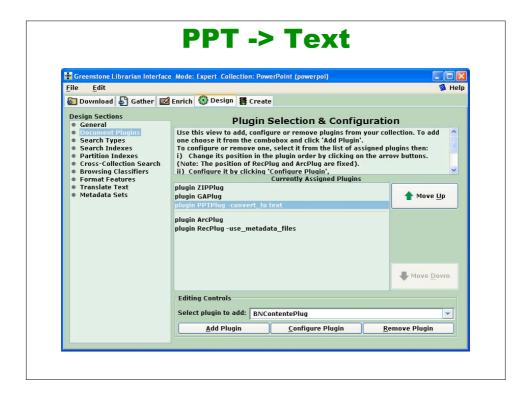


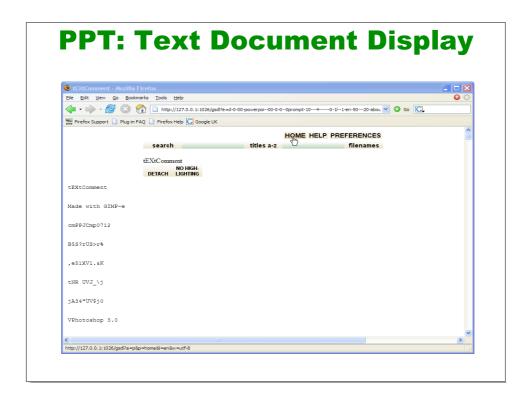


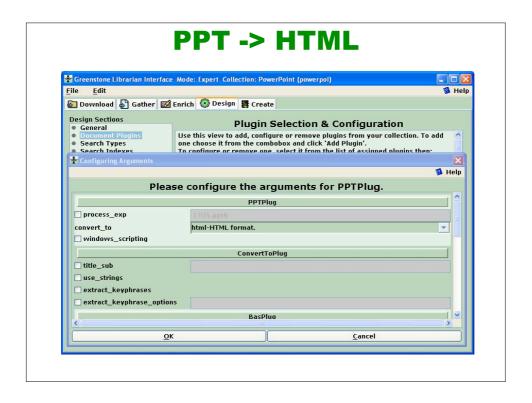


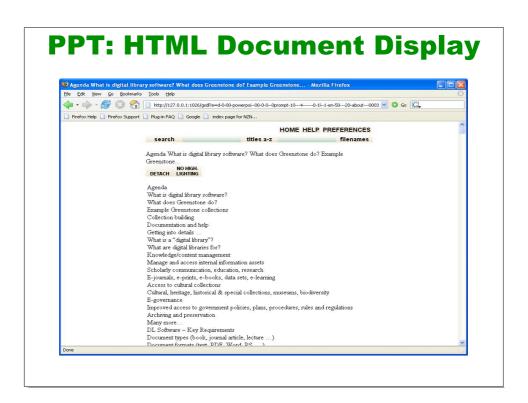
PowerPoint Document

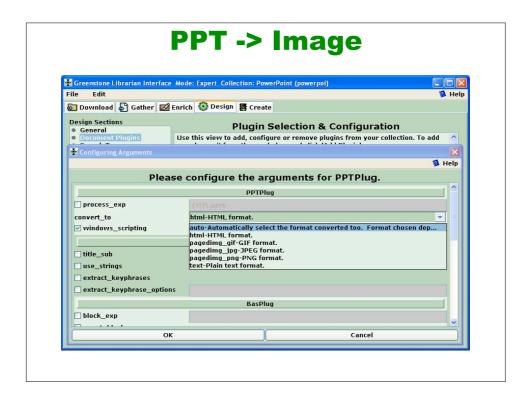
- PPT conversions in Greenstone
 - 1. Text
 - use_strings option
 - 2. HTML
 - 3. Image (JPEG, GIF, PNG)
 - windows_scripting option
 - convert_to pagedimg_jpg pagedimg_gif pagedimg_png

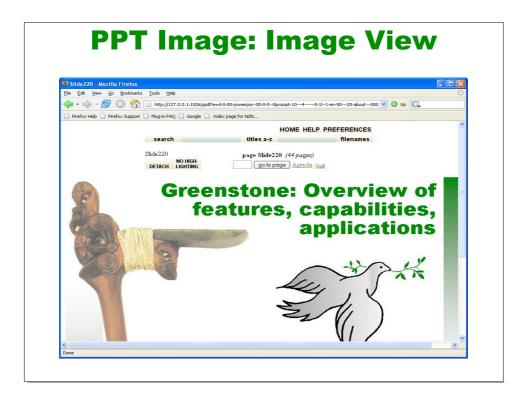


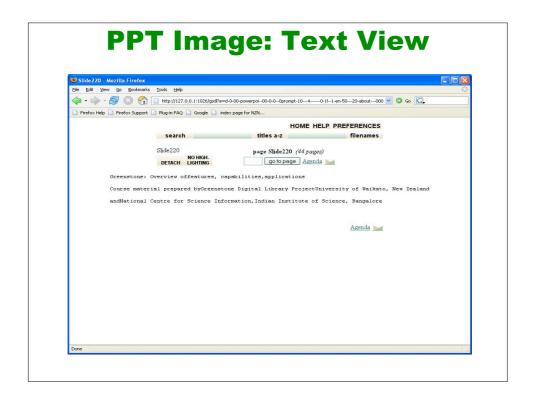


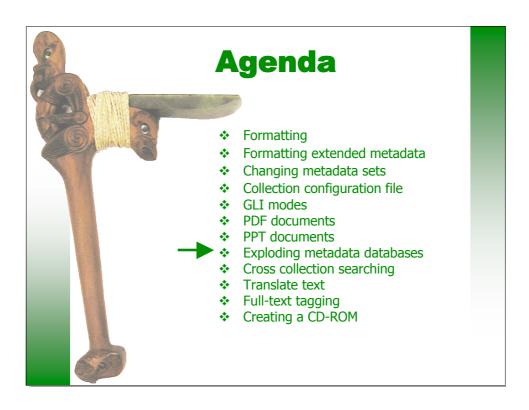












Exploding metadata databases

The GLI does not show metadata extracted from bibliographic files: CDS/ISIS, MARC etc.



Why not?

- The GLI treats these files just like any other: it shows extracted and assigned metadata, but not the file's contents
 - Double-click the file to open it in the normal editor for this file type eg. WinISIS for CDS/ISIS files
- In rare cases you might want to convert these files into Greenstone format, allowing the metadata records to be visible and editable from the GLI
- This is irreversible: there's no going back!
 - Keep a backup of the original file

Exploding Metadata Databases

Files that can be exploded are shown with a green icon in the GLI

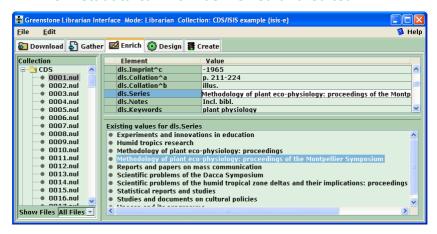


- Right-click on the file and choose "Explode Metadata Database"
- You will be prompted to map the metadata into a metadata set
- When complete, the file will be replaced with a folder containing a file for each record



Exploding Metadata Databases

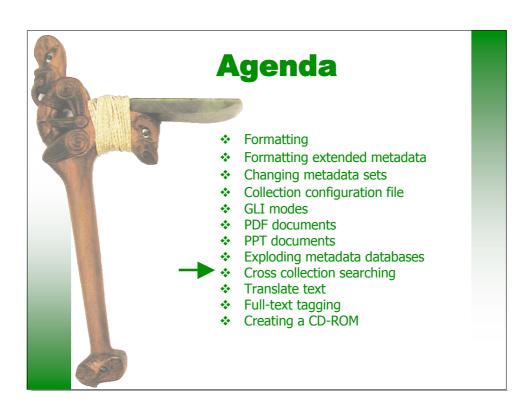
The metadata can now be viewed and edited:



- ❖ Note: the GLI is *not* a real database system
 - Only feasible with a small number of records

Exploding Metadata Databases

- Change classifiers, index specifications and format statements to use the namespaced metadata elements
- When importing the collection, the files will now be processed by NULPlug rather than the plugin for the original file (eg. ISISPlug)



Cross Collection Searching

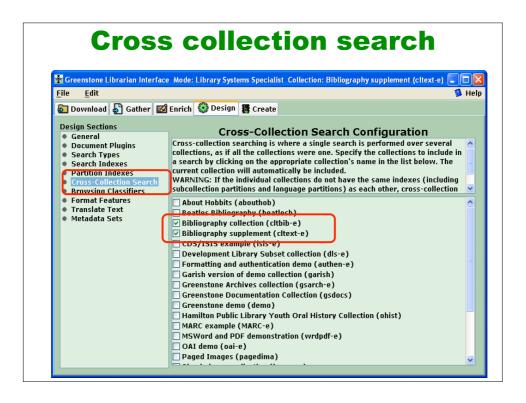
- ❖ Select a list of collections
- Collections need the same indexes
- User can select which collections to search on Preferences page
- Format statements applied from original collection

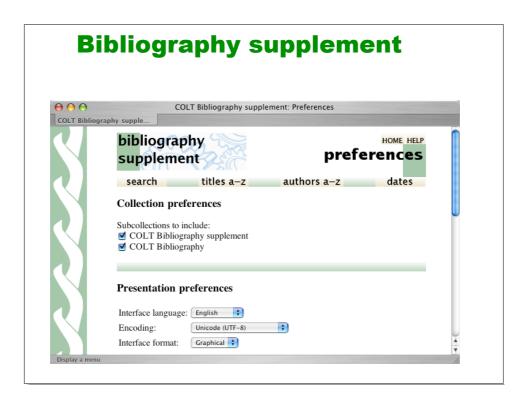
Bibliography collections

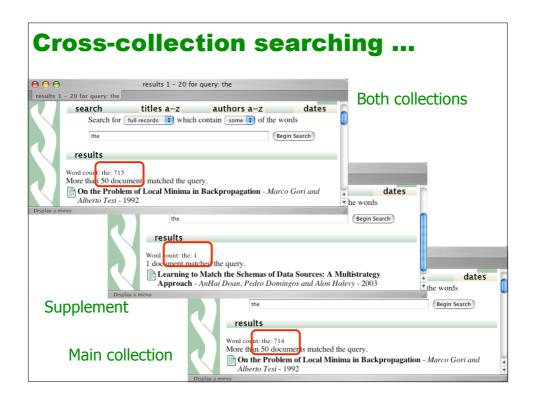
bibliography collection

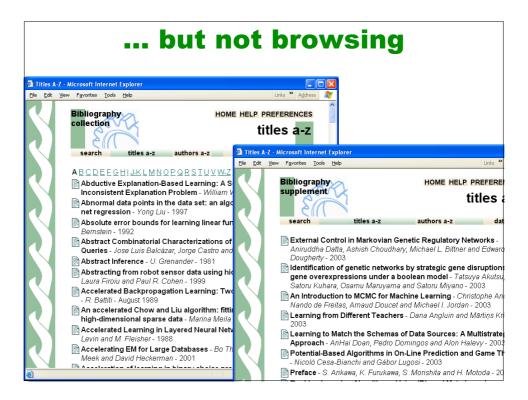
With about 4,000 bibliography entries, this collection incorporates a form-based search interface that allows fielded searching. It is fairly complex.

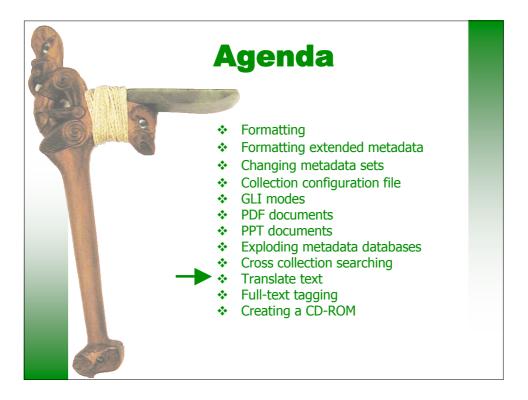
bibliography supplement This tiny collection of 10 bibliography entries illustrates the "supercollection" facility which searches several collections together, seamlessly. It operates together with the <u>Bibliography collection</u>, and its configuration file is almost the same.

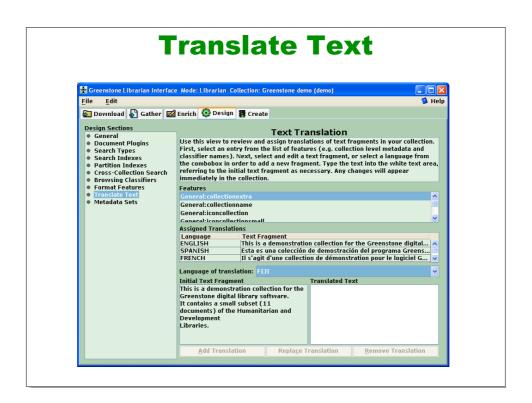


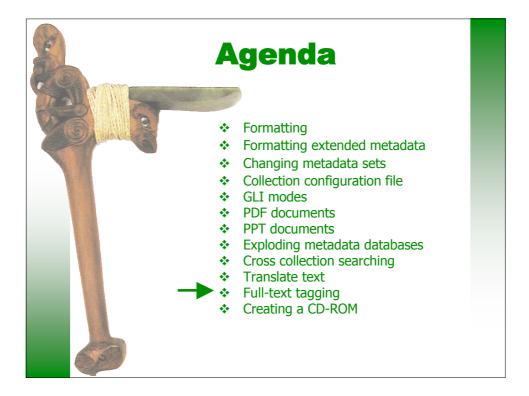






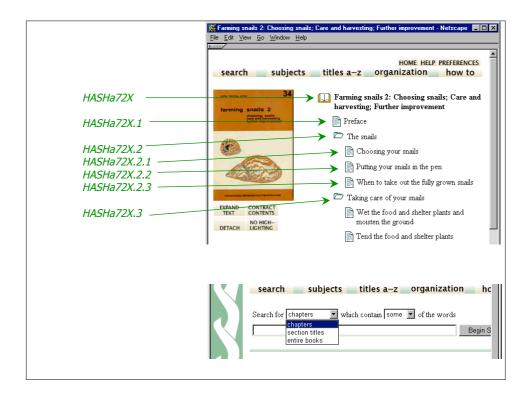






Full Text Tagging

- While creating large digital collections:
 - the collection must be organized
 - the larger the collection the greater the need for organization
 - the larger the documents the greater the need for sections/subsections
- Greenstone lets you tag the full text of documents
- Then you can read them hierarchically ...
- ... and search them by section



Full Text Tagging...

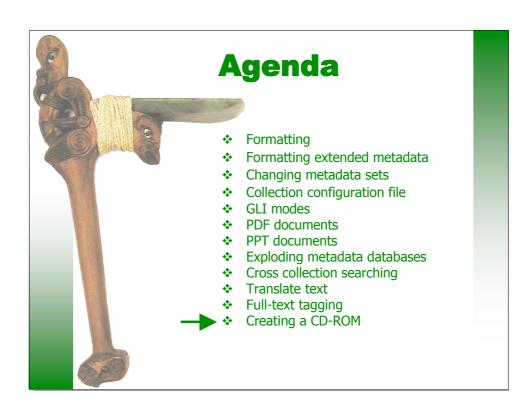
To show the hierarchical structure, tag the source files like this:

Full Text Tagging...

- Section tags define a hierarchical structure
- Sections can be nested within other sections
- All sections must be nested within a single enclosing section that encompasses the entire document
- In the collection configuration file, put

HTMLPlug -description_tags

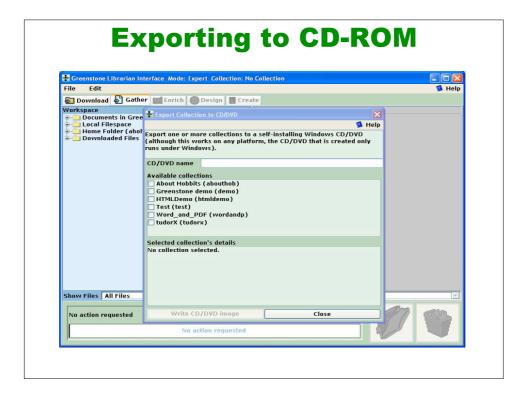
Mainly for HTML, but can be used in Word and PDF documents.



Creating a CD-ROM

- Export any Greenstone collection as a CD-ROM
- ❖ Self-installing
- Windows only (sorry!)
- ❖ Full Installation of Greenstone
- ❖ In the Librarian File -> Write CD/DVD image
- C:\Program Files\Greenstone\tmp\exported_xxx





Note

- CD-ROM's created this way have not been tested extensively under different Windows configurations
- But they should work on all Windows platforms ...
- ... except 3.1/3.11 (is this a problem?)

Creating a CD-ROM: demo