

Advanced formatting; creating a CD-ROM



Course material prepared by

Greenstone Digital Library Project
University of Waikato, New Zealand

and

National Centre for Science Information,
Indian Institute of Science, Bangalore

Agenda

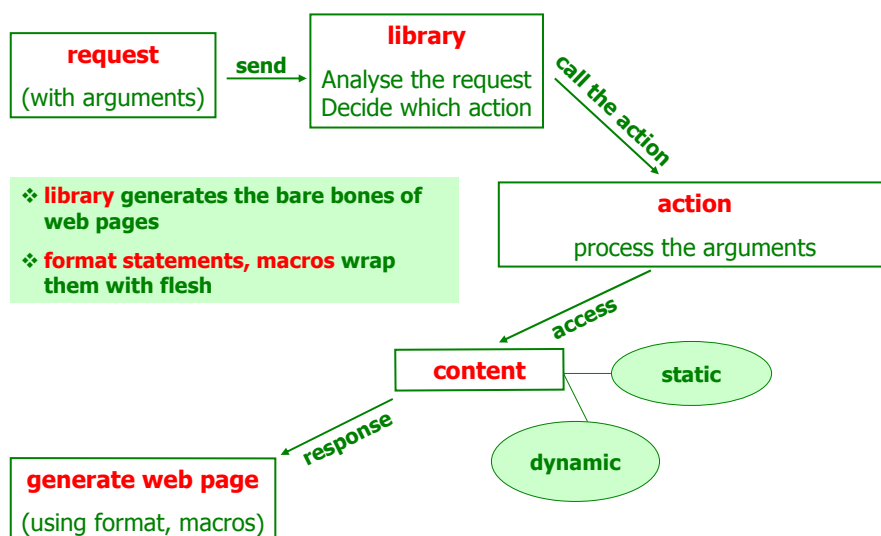


- ❖ Interface customisation
- ❖ Customisation examples
- ❖ Advanced format statements
- ❖ Creating a CD-ROM
- ❖ Examples of customization by others

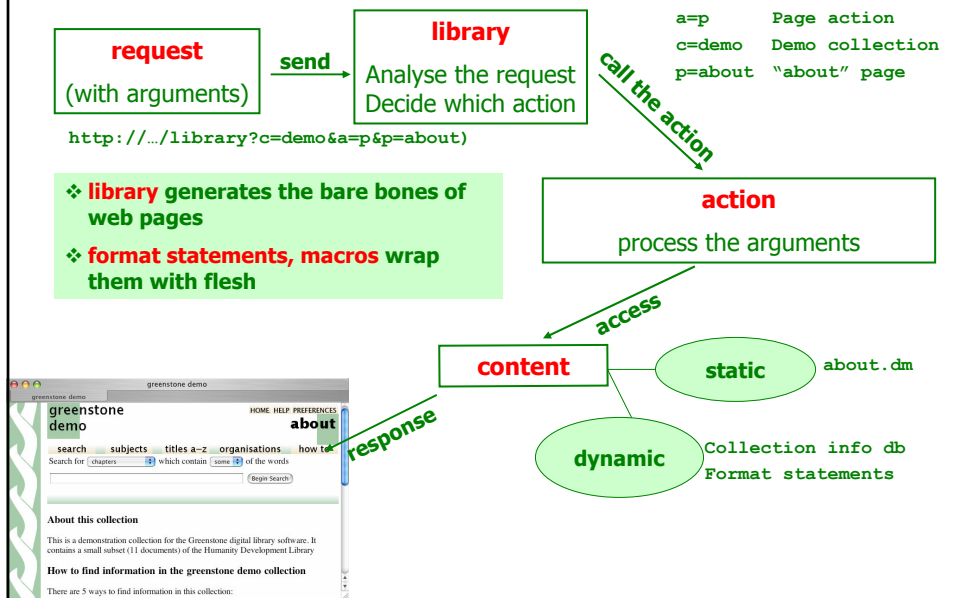
Interface customisation

- ❖ Customising the Greenstone pages requires some knowledge of HTML
 - Can't use an HTML editor because the pages aren't static: they are generated "on-the-fly"
- ❖ Customising the Greenstone pages involves:
 - Macro files
 - ❖ In the Greenstone "macros" folder
 - Images
 - ❖ In the Greenstone "images" folder
 - Format statements
 - ❖ GLI: "Format Features" part of the Design pane

Greenstone page generation



Greenstone page generation



Macros

❖ Macros

- Let you customize presentation without editing code
- Are resolved at run-time:
 - ❖ Allows pages to be presented in different languages
 - ❖ Allows variables to be printed into the page text (e.g. number of search hits)

❖ Macro files

- Stored in the Greenstone macros folder, named *.dm
 - ❖ `home.dm` for the home page, `query.dm` for search page etc.
- Each file defines one or more "packages"
 - ❖ A "package" is a group of macros
- Loaded on startup (= every request, for Web Library)
- Listed in the `main.cfg` file in Greenstone's "etc" folder

What do macros look like?

- ❖ Names begin and end with underscores (like `_this_`)
- ❖ Content is defined using curly brackets

`_macroname_ [Arguments] { Macro content }`

- Can contain plain text, HTML, and other macro names
- Can contain conditional statements
 - ❖ `_If_ ...`
- Can take arguments to restrict when they apply
 - ❖ `l=fr, c=demo` etc.

Interface Language Macrofiles

english.dm

```
#-----
# text macros
#-----

_textimageabout_ {About page}
_textimagehelp_ {Help page}
_textimagepref_ {Preferences page}
_textimagegreenstone_ {Greenstone Digital Library Software}

_textimagesearch_ {Search for specific terms}
_textimageCreator_ {Browse alphabetical list of authors}
_textimageTitle_ {Browse alphabetical list of titles}
_textmatches_ {Matches}
_textbeginsearch_ {Begin Search}

_texticonsmalltext_ {View this section of the text}
_texticondetach_ {Open this page in a new window}
_texticonexpandtoc_ {Expand table of contents}
_texticonexpandtext_ {Display all text}
_texticonhighlight_ {Highlight search terms}

_textlanguage_ {Interface language: }
_textsimplemode_ {simple query mode}
_textadvancedmode_ {advanced query mode (allows boolean searching u
```

Interface Language Macrofiles

chinese.dm

```
#-----
# text macros
#-----

_ textimageabout_ [l=zh] {主页}
_ textimagehelp_ [l=zh] {帮助页}
_ textimagepref_ [l=zh] {选项页}
_ textimagegreenstone_ [l=zh] {绿石数字化图书馆软件}

_ textimagesearch_ [l=zh] {特定范围检索}
_ textimageCreator_ [l=zh] {按作者名字的阿拉伯字母顺序浏览}
_ textimageTitle_ [l=zh] {按题名名字的阿拉伯字母顺序浏览}
_ textmatches_ [l=zh] {匹配}
_ textbeginsearch_ [l=zh] {开始查询}

_ texticonsmalltext_ [l=zh] { 浏览该部份文本}
_ texticondetach_ [l=zh] { 打开一个新的窗口显示本页}
_ texticonexpandtoc_ [l=zh] { 扩展目录表}
_ texticonexpandtext_ [l=zh] { 显示所有文本}
_ texticonhighlight_ [l=zh] { 查询项以粗体显示}

_ textlanguage_ [l=zh] {界面语言:}
_ textsimplemode_ [l=zh] {简单查询方式}
_ textadvancedmode_ [l=zh] {高级查询方式(可以使用 !, &, | 和括号来布尔查询)}
```

Customising the home page

C:\Program Files\Greenstone\etc\main.cfg

change *home.dm* to *yourhome.dm*



package home
content {

yourhome.dm

```

<nz> Your own Greenstone home page</h2>
<ul>
<table>
<tr valign=top><td>Search page for the demo collection<br></td>
    <td><a href="_httpquery_&c=demo">Click here</a></td></tr>

<tr><td>"About" page for the demo collection</td>
    <td><a href="_httppageabout_&c=demo">Click here</a></td></tr>

<tr><td>Preferences page for the demo collection</td>
    <td><a href="_httppagepref_&c=demo">Click here</a></td></tr>

<tr><td>Home page</td>
    <td><a href="_httppagehome_">Click here</a></td></tr>

<tr><td>Help page</td>
    <td><a href="_httppagehelp_">Click here</a></td></tr>

<tr><td>Administration page</td>
    <td><a href="_httppagestatus_">Click here</a></td></tr>

<tr><td>The Collector</td>
    <td><a href="_httppagecollector_">Click here</a></td></tr>

</table>
</ul>
}
```

Macros used in home.dm

<u>_httppagehome_</u>	Address of the home page
<u>_httppagehelp_</u>	... the help page
<u>_httppagestatus_</u>	... the administration page
<u>_httppagecollector_</u>	... the Collector page
<u>_httpquery_&c=demo</u>	... the search page for the demo collection
<u>_httppageabout_&c=demo</u>	... the about page for the demo collection
<u>_httppagepref_&c=demo</u>	... the preferences page for the demo collection
<u>_content_ { ... }</u>	defines a macro called <u>_content_</u> contains HTML, but '{', '}', '\', and '_' must be escaped with a backslash
<u>_header_ { ... }</u>	HTML page header (contains background)
<u>_footer_ { ... }</u>	HTML page footer

Collection-specific macros

- ❖ Macro files usually affect all collections
- ❖ To change the interface for one collection only:
 - Create a new macro file called `extra.dm` in the collection's "macros" folder
 - ❖ Create this folder if it doesn't exist
 - Add collection specific macros to this file
 - ❖ **Package** line in the beginning is mandatory
 - ❖ Specify the collection name as an argument to the macro:
`_content_ [c=collectionname] { }`

Garish collection

- ❖ A very ugly version of the demo collection!
- ❖ Uses collection-specific macros and CSS files



Garish: package “Global”

```
#####
package Global
#####
_starthighlight_ [c=garish] {<b>}
_endhighlight_   [c=garish] {</b>}
_imagespacer_    [c=garish]
{ </no> <br/>
  
  <br/><no> }
_httpiconttitlgr_ [c=garish]
{ _httpimg_/garish/title_green.gif}
_httpiconttitlon_ [c=garish]
{ _httpiconttitlof_ } # make it the same as off
_httpiconttitlof_ [c=garish]
{ _httpimg_/garish/title_button.gif}
_widthhttitlx_   [c=garish] {59}
```

- Highlight query terms in bold
- Separates search and classifier buttons
- Special Titles button: 3 gifs
gr for selected
on for on (mouse hovers over it)
of for off (not selected)
- Width is used when calculating gap between buttons

Garish: package “Style”

```
#####
package Style
#####
_htmlhead_ [c=garish] {<html>
<head>
  <title> _pagetitle_ </title>
  <link rel="stylesheet"
    href=" _httpimg_/garish/style.css"
    type="text/css"/>
</head>
<body>
}

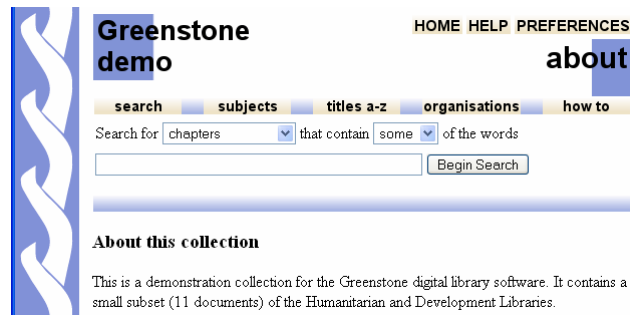
_pagebanner_ [c=garish] {}
```

- Page header macro
This overrides it to make all pages use the style sheet
- Pagebanner normally includes the collection's logo, home/help/preferences buttons, and the image at top left that identifies the page.
This overrides it to suppress these images

Interface customisation: images

- ❖ The look of the collection can be changed very easily by editing the Greenstone images
 - Right-click on an image in the web browser to find out what its name is
 - Open in an image editor and edit to suit your collection

Bluestone?



Creating new classifier buttons

- ❖ Visit <http://www.greenstone.org/make-images.html>
 - Choose your interface language
 - Enter the classifier "-buttonname" value (metadata name)
 - Enter the image name
 - Enter the text to appear on the buttons

Greenstone classifier image generation

Language interface:

Classifier buttonname argument: e.g. Subject

Image name: e.g. subj

Text to appear on classifier button: e.g. subjects

Creating new classifier buttons

- ❖ Right-click on each image and save into the Greenstone "images" folder

Greenstone classifier image generation

Greenstone classifier images with text "photographer".

photographer

photographer

photographer


photographer

These images should be put in the images/ folder of your Greenstone installation.

- ❖ Copy the macros from this page into the extra.dm file in Greenstone's "macros" folder

Creating new collection images

- ❖ Visit <http://www.greenstone.org/make-images.html>
 - Choose your interface language
 - Enter the collection internal name (collection folder name)
 - Enter the text to appear on the collection icons



Greenstone collection image generation

Language interface:

Collection internal name:
(max 8 ASCII characters)

Text to appear on collection icons:
(Use "\n" for a newline)

e.g.

Greenstone
demo

e.g. demo

e.g. Greenstone\ndemo

Creating new collection images

- ❖ Right-click on each image and save into the collection's "images" folder

Greenstone collection image generation

Greenstone collection images with text "Test\ncollection":

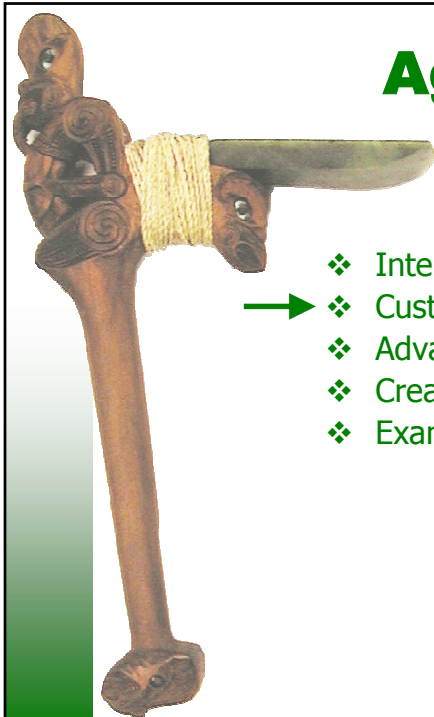
Test
collection

Test
collection

These images should be put in the collect/testcoll/images/ folder of your Greenstone installation.

- ❖ In the General part of GLI's Design pane, choose Browse for "about page" and "home page" icons, and select the images

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- ❖ Creating a CD-ROM
- ❖ Examples of customization by others

Customizing parts of a page



- 1 In the General part of GLI's Design pane, Browse for the "about page" icon and select your image

Customizing parts of a page



- 2 Macro called `_javalinks_` in package `global` in the `base.dm` file

```
_javalinks_ { _imagehome _imagehelp _imagepref }
```

Position of the buttons is in macro `_pagebanner_` in the `style.dm` file. You can change the position of the buttons, add new ones, delete some, or display none at all

Customizing parts of a page



3 Macro called `_imagethispage_`, e.g. in package help

```
package help
_imagethispage_ [c=auhist] {_iconthispage_}
_iconthispage_ [c=auhist] {}
```

the icon is language-specific, so it's in `english.dm`

```
_httpiconhhelp_ { httpimg_/h/_help.gif}
```

Customizing parts of a page



4 These buttons are created by classifiers, e.g. in `collect.cfg`

```
classify AZList -metadata Title
```

Create the button images at

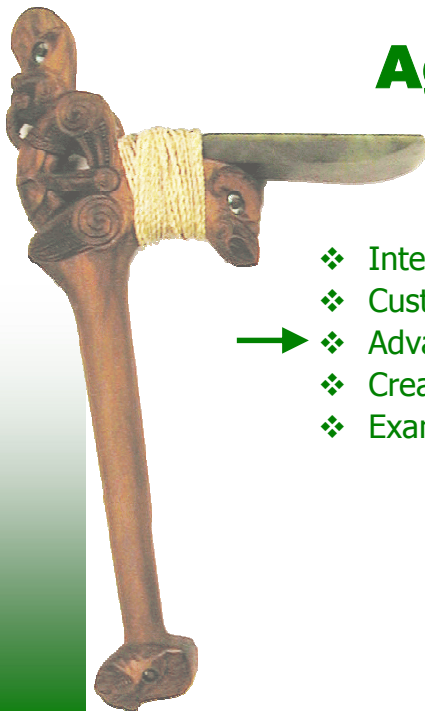
<http://www.greenstone.org/make-images.html>

Customizing parts of a page



- 5 The classifier list display is defined by a format string in the Format Features part of GLI's Design pane

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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 (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: Agriculture		sibling:Subject – Agriculture, Farming, Cuisine
Subject: Farming		sibling(last):Subject – Cuisine
Subject: Cuisine		Sibling(All' and '):Subject – Agriculture and Farming and Cuisine
1. Introduction		child:Title – Introduction, Getting Started
1.1 Snails are good to eat		child(2):Title – Getting started
1.2 What is snail farming?		
2. Getting started		
2.1 How to prepare the pens		

Format statements: Extended metadata

Snail Farming	↗	parent:Title - Introduction
Subject: Agriculture		parent(Top):Title - Snail Farming
Subject: Farming		parent(All):Title – Snail Farming, Introduction
Subject: Cuisine		Parent(Top):Subject - Agriculture
1. Introduction		Parent(Top):sibling:Subject – Agriculture, Farming, Cuisine
1.1 Snails are good to eat		Parent(Top):sibling(All' and '):Title – Agriculture and Farming and Cuisine
1.2 What is snail farming?		
2. Getting started		
2.1 How to prepare the pens		

Format statements: Combining If and Or

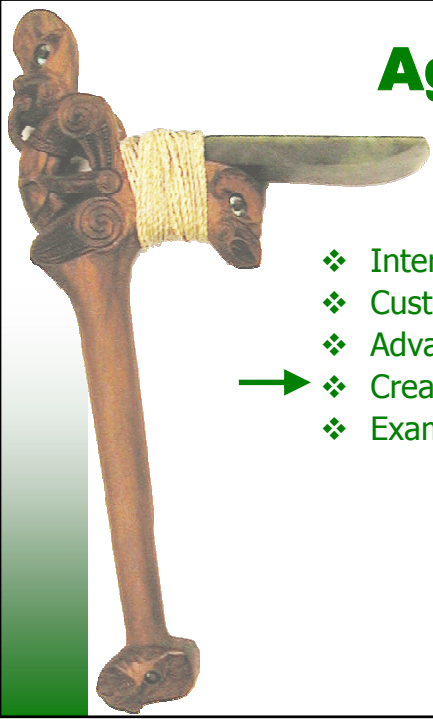
- ❖ {If}{test, if true, if false}
- ❖ {Or}{[metadata1],[metadata2]...}
- ❖ {Or} can have a conditional as the last element:
- ❖ {Or}{[Creator],[Editor],
 {If}{[FileFormat] eq "PDF",
 xxx,anonymous}}

Format statements: Combining If and Or

- ❖ {If} can have another conditional at 'true' or 'false' position.
- ❖ {If}{[numleafdcs],[Title],
 [dc.Title]{If}{[Date],: [Date]}
 {If}{[Subject], ([Subject], unclassified)}}
Snail farming: 26 Jun 1998 (Small Animal Farming)

Format statements: demo

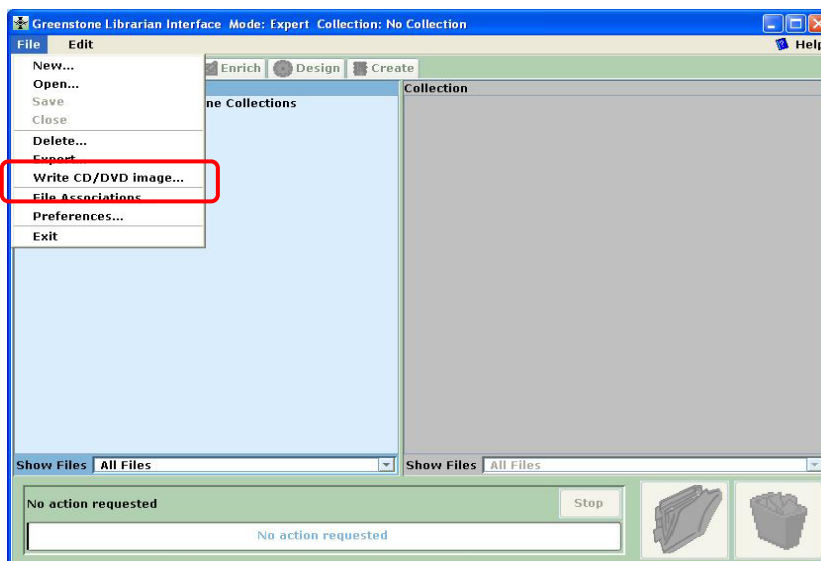
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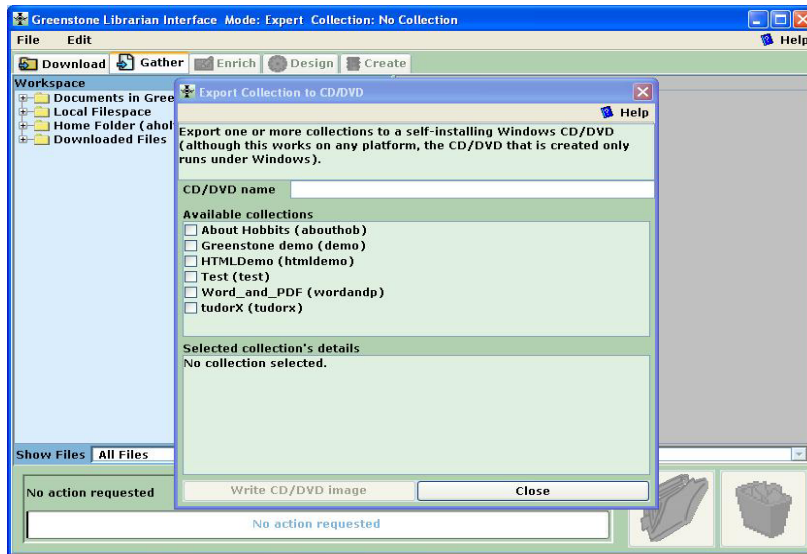
Creating a CD-ROM

- ❖ 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

Exporting to CD-ROM



Exporting to CD-ROM



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

Documentation and Help

- ❖ *Developer's Guide* (developer.pdf)
- ❖ Customizing the Greenstone user interface
(<http://www.wrlc.org/dcpc/UserInterface/interface.htm>)
- ❖ Documented example collections:
 - Garish collection
 - Authentication and formatting demo

Help!

Email us:

greenstone@cs.waikato.ac.nz

Join the mailing list:

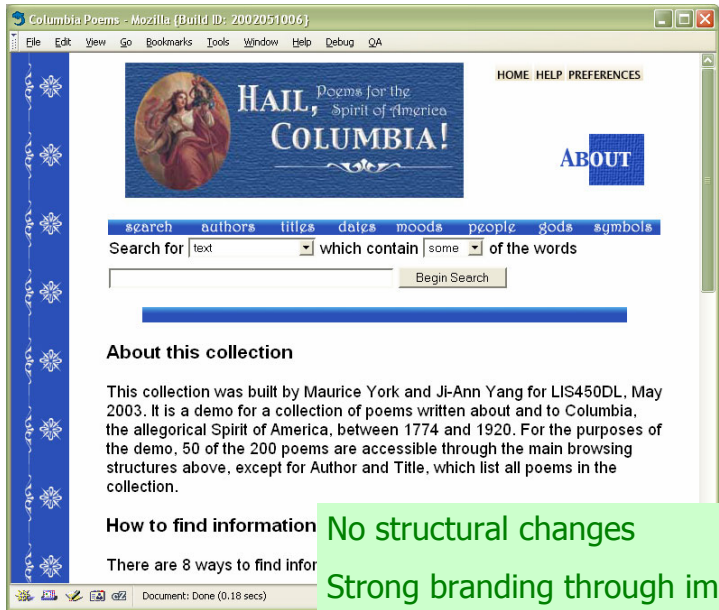
<https://list.scms.waikato.ac.nz/mailman/listinfo/greenstone-users>

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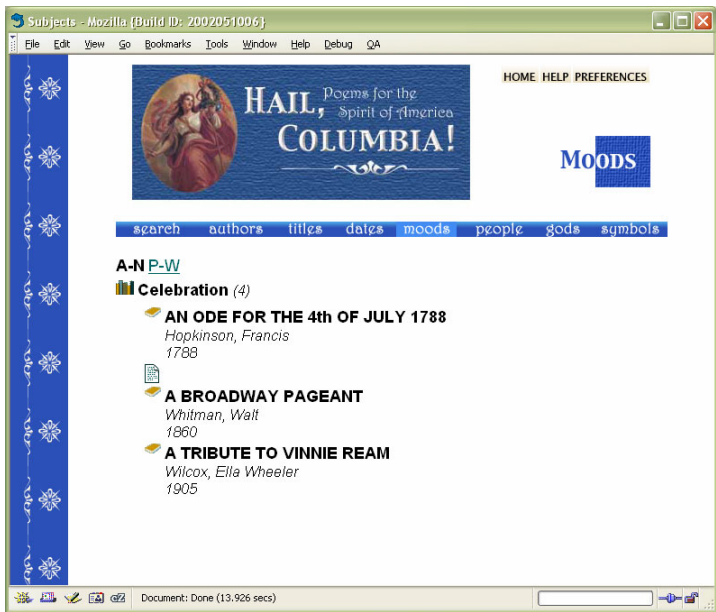
Illinois student project



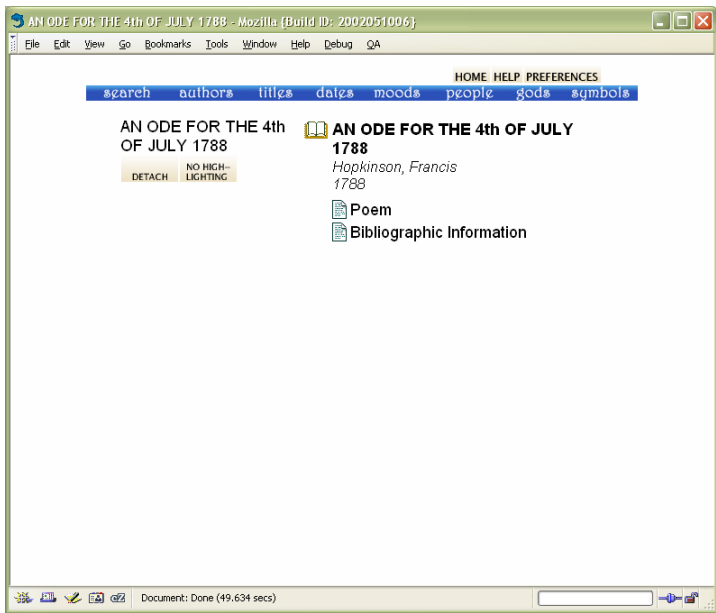
Illinois student project



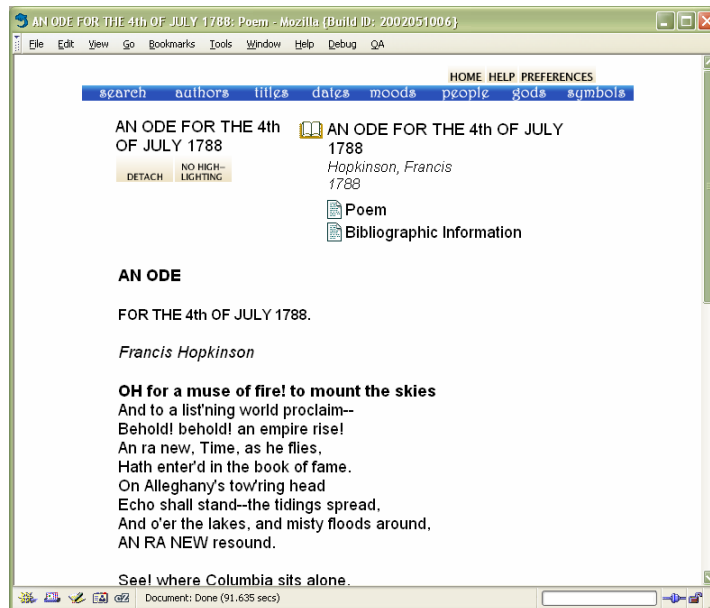
Illinois student project



Illinois student project



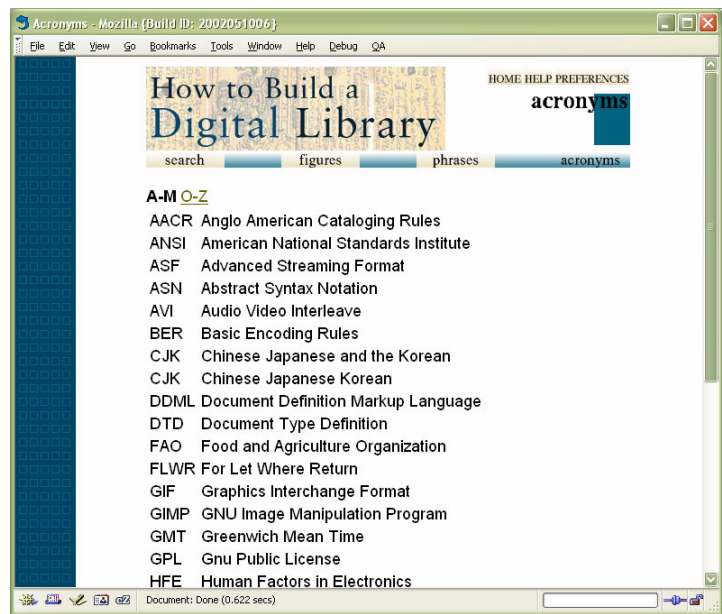
Illinois student project



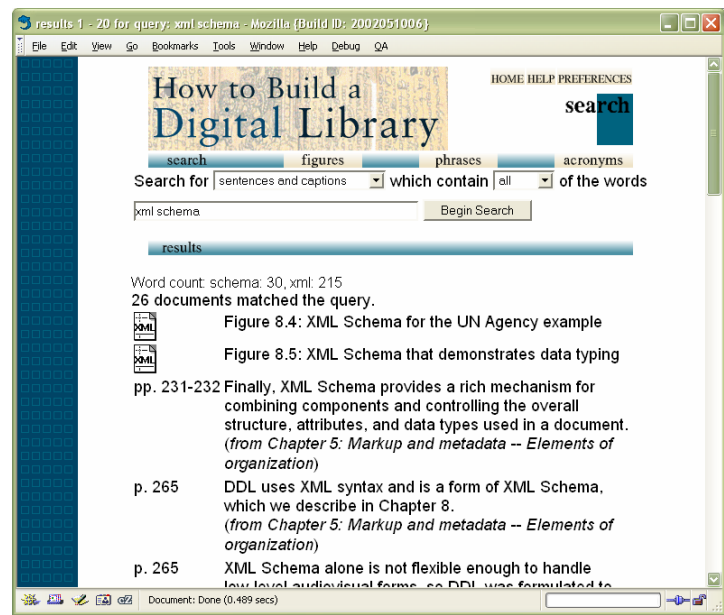
“How to build” web site



“How to build” web site



“How to build” web site




Zespri innovation library

Zespri International Ltd - Home Page - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Links »

Your Details / Print this Page

 ZESPRI GROUP LIMITED

Search: All Categories Keyword: Find It

Main Menu

- Home Page
- The ZESPRI™ System
- NZ Supply
- International Supply
- Tech Transfer
- Communications
- Innovation
- Payment Information
- Corporate / Regulatory
- Global Locations
- What's New
- Legal / Copyright
- Contact Us
- LogOut

Calendar

October 2002

S	M	T	W	T	F	S
	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30	31	

Add an Event

- 8/10 Innovation Conference: Baycourt
- 9/10 Innovation Conference: Baycourt
- 13/10 Industry Challenge: Maramatanga Park, Te Puna
- 14/10 Hort16A Field Day: Karaka Kiwi Farm, Gisborne
- 15/10 Hort16A Field Day: R J Flowers Orchard, Hawkes Bay
- 16/10 Hort16A Field Day: Keni Moore Orchard, Kenkeni
- 16/10 Hort16A Field Day: R & M Rudolph Whangarei
- 17/10 Hort16A Field Day: D Burnside, P

Headlines

Innovation Forum 2002

Book your place for the ZESPRI Innovation Forum on the 8 & 9 October. This day and a half long event will provide you with an insight into the work of ZESPRI Innovation. There will be presentations and workshops covering current and future research on pests and diseases, post harvest issues and orchard practices.

My ZESPRI / Links

- Make this your Home Page
- Add this site to my Favorites
- www.zespri.com
- www.nzherald.co.nz
- www.stuff.co.nz
- www.metservice.co.nz
- www.niwa.co.nz

Embedded in larger site (frames)
Structural variation to macros
Referer mechanism (security)


Zespri innovation library

Zespri International Ltd - Copyright Information - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Links »

Your Detail / Print this Page

 ZESPRI GROUP LIMITED










Search: All Categories Keyword: Find It

Main Menu

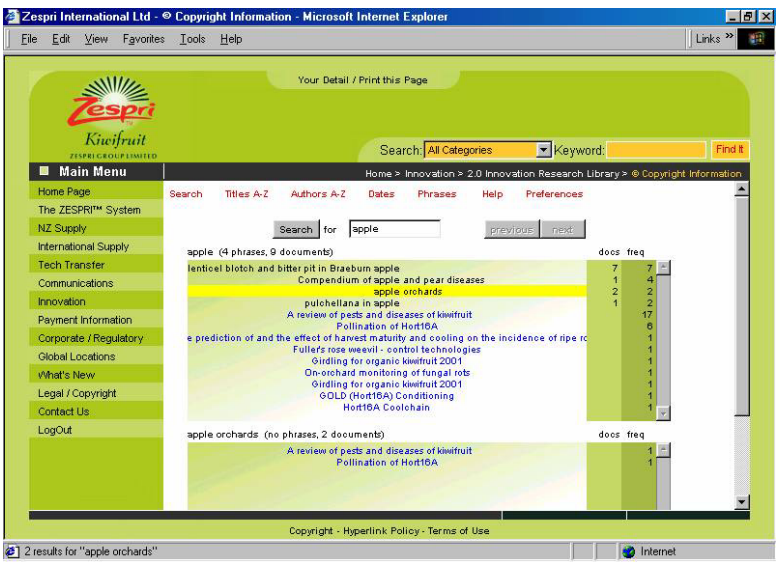
- Home Page
- The ZESPRI™ System
- NZ Supply
- International Supply
- Tech Transfer
- Communications
- Innovation
- Payment Information
- Corporate / Regulatory
- Global Locations
- What's New
- Legal / Copyright
- Contact Us
- LogOut

Home > Innovation > 2.0 Innovation Research Library > Copyright Information

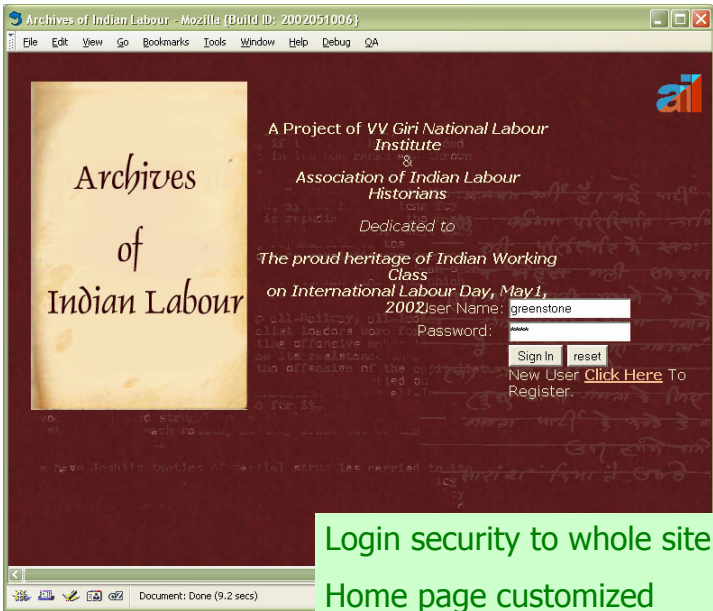
Search Titles A-Z Authors A-Z Dates Phrases Help Preferences

2001 February	 Effects of BenefitPZ on the Maturation, Yield and Storage of Hort16A Fruit	1 February 2001
	 The Potential to Predict Storage Quality of Hort16A Fruit from Fruit Characteristics Measured Prior to Storage	1 February 2001
	 Effects of BenefitPZ on the Maturation, Yield and Storage of Hort16A Fruit	1 February 2001
	 HORT16A Clearance to Pick	1 February 2001
	 The Potential to Predict Storage Quality of Hort16A Fruit from Fruit Characteristics Measured Prior to Storage	1 February 2001
May	 Identification of low temperature breakdown in Hayward kiwifruit	1 May 2001
June	 Detection of Armillaria root rot in kiwifruit vines: A critical review	1 June 2001
July	 Hort16A ripe rots: the prediction of and the effect of harvest maturity and cooling on the incidence of ripe rots in fruit of Hort16A	1 July 2001
August	 GOLI (Hort16A) Conditioning	1 August

Zespri innovation library

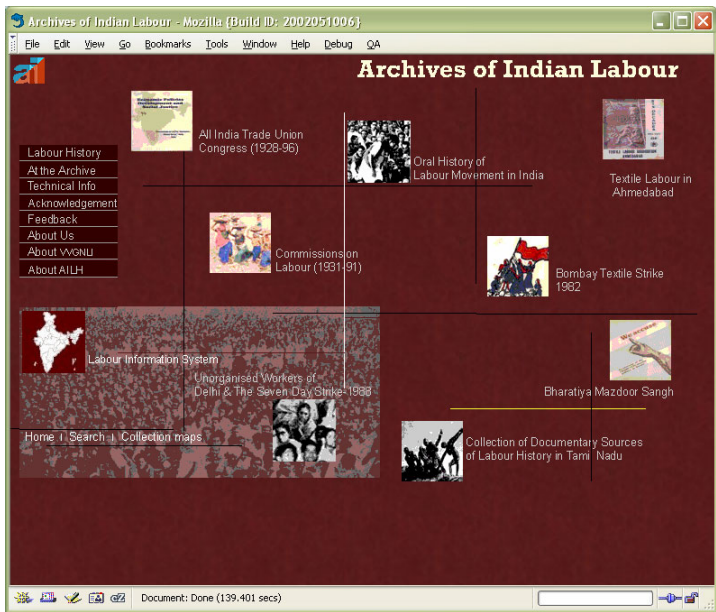


Archives of Indian labour



Login security to whole site
Home page customized

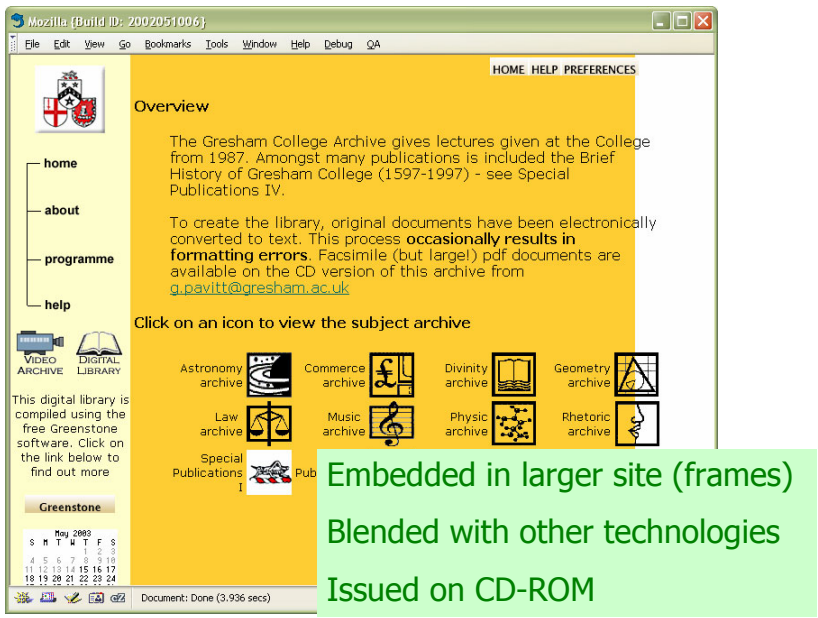
Archives of Indian labour



Archives of Indian labour



Gresham College archive



Overview

The Gresham College Archive gives lectures given at the College from 1987. Amongst many publications is included the Brief History of Gresham College (1597-1997) - see Special Publications IV.

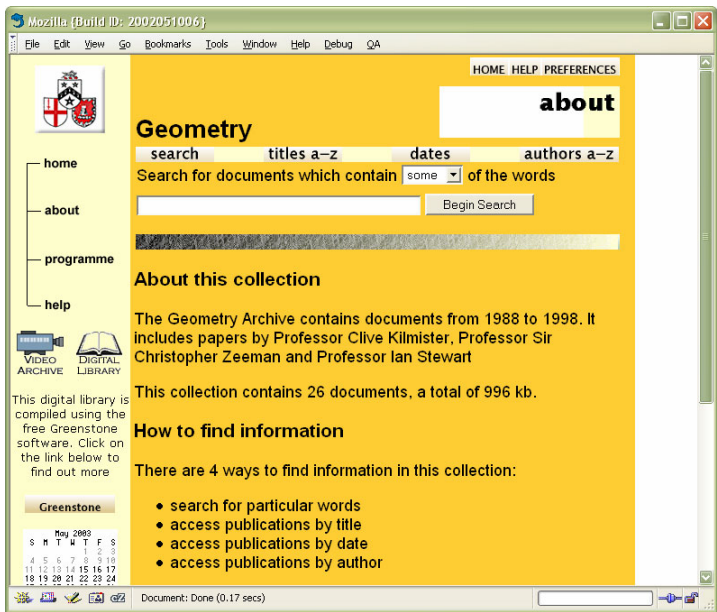
To create the library, original documents have been electronically converted to text. This process **occasionally results in formatting errors**. Facsimile (but large!) pdf documents are available on the CD version of this archive from g.pavitt@gresham.ac.uk

Click on an icon to view the subject archive

Astronomy archive Commerce archive Divinity archive Geometry archive Law archive Music archive Physics archive Rhetoric archive Special Publications I

Embedded in larger site (frames)
Blended with other technologies
Issued on CD-ROM

Gresham College archive



Geometry

search titles a-z dates authors a-z

Search for documents which contain of the words

Begin Search

About this collection

The Geometry Archive contains documents from 1988 to 1998. It includes papers by Professor Clive Kilmister, Professor Sir Christopher Zeeman and Professor Ian Stewart

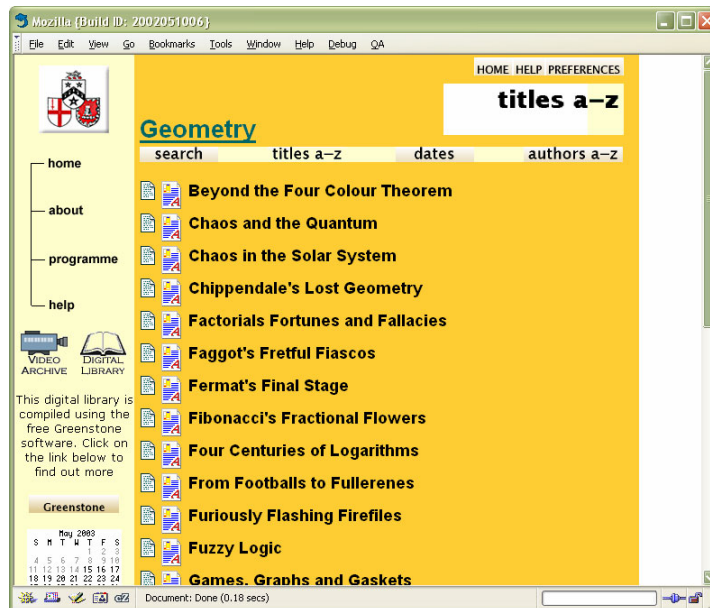
This collection contains 26 documents, a total of 996 kb.

How to find information

There are 4 ways to find information in this collection:

- search for particular words
- access publications by title
- access publications by date
- access publications by author

Gresham College archive



The NY Botanical Gardens

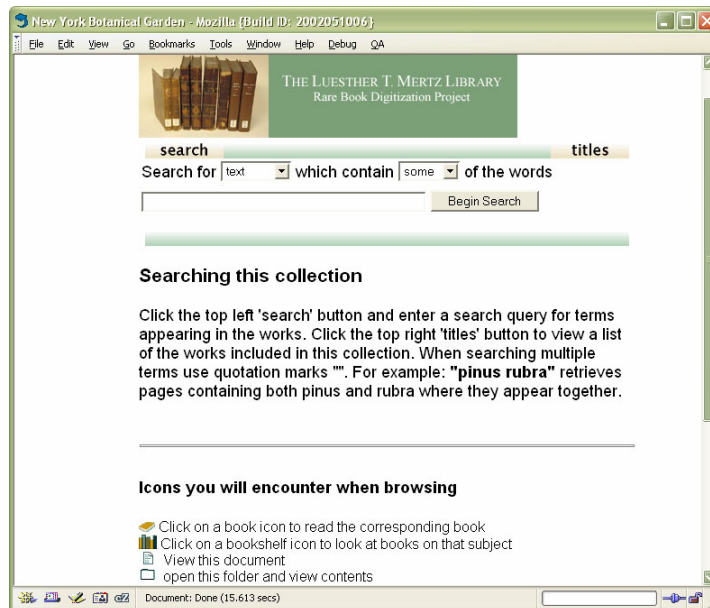


Single collection *is* site

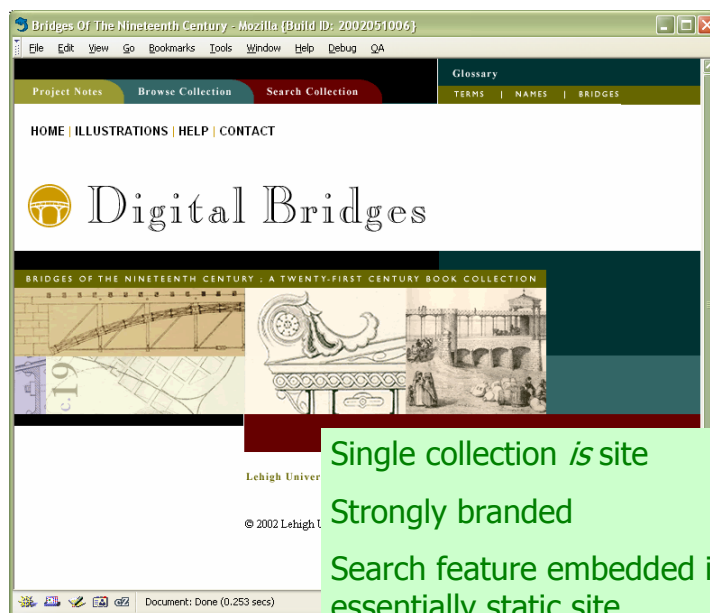
Supplementary information
provided through static pages

Redesign of *about collection* page

The NY Botanical Gardens



Lehigh University



Single collection *is* site

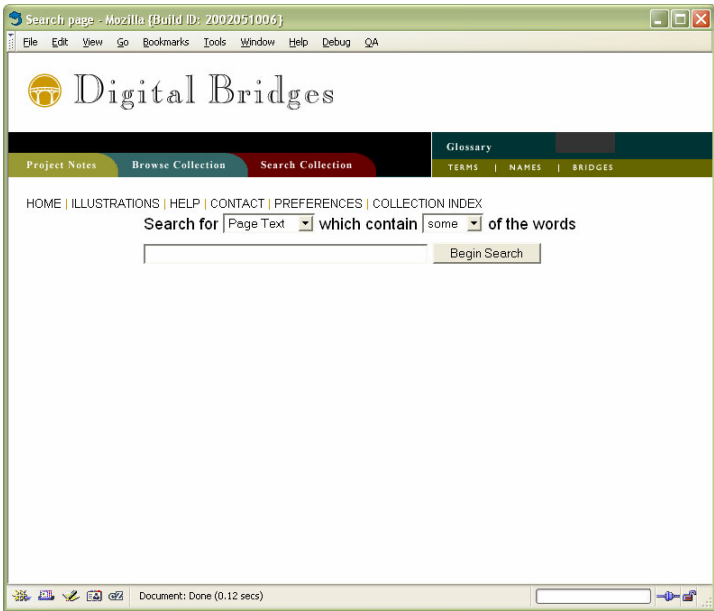
Strongly branded

Search feature embedded into essentially static site

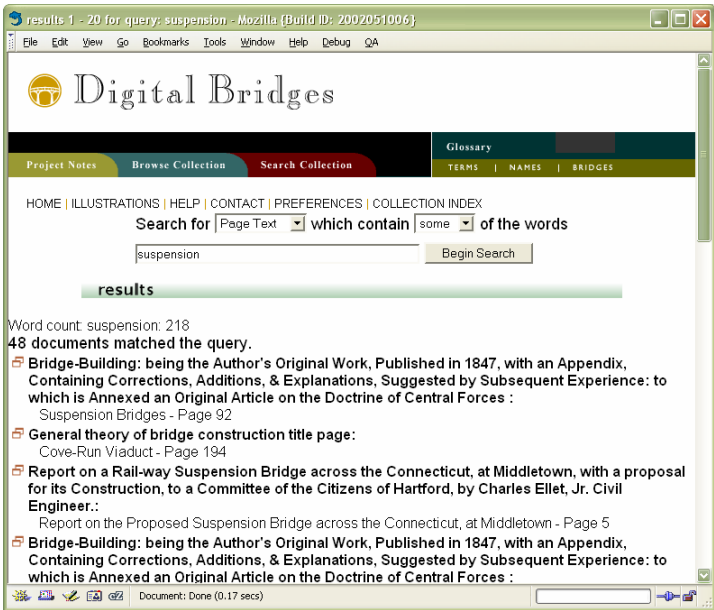
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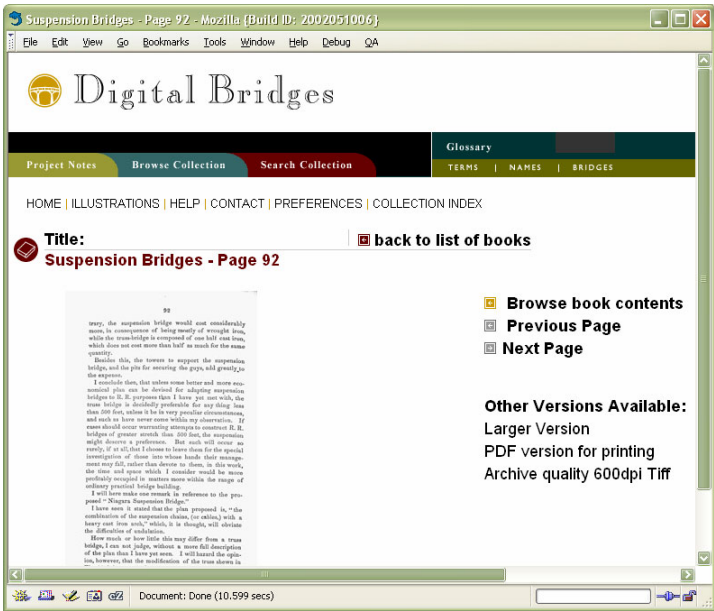
Lehigh University



Lehigh University



Lehigh University



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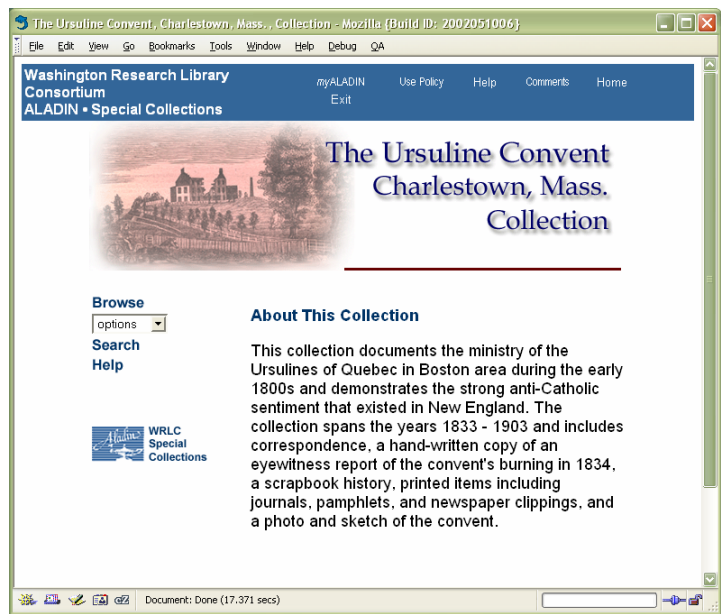
Greenstone is component of larger digital library system

Access to browse redefine

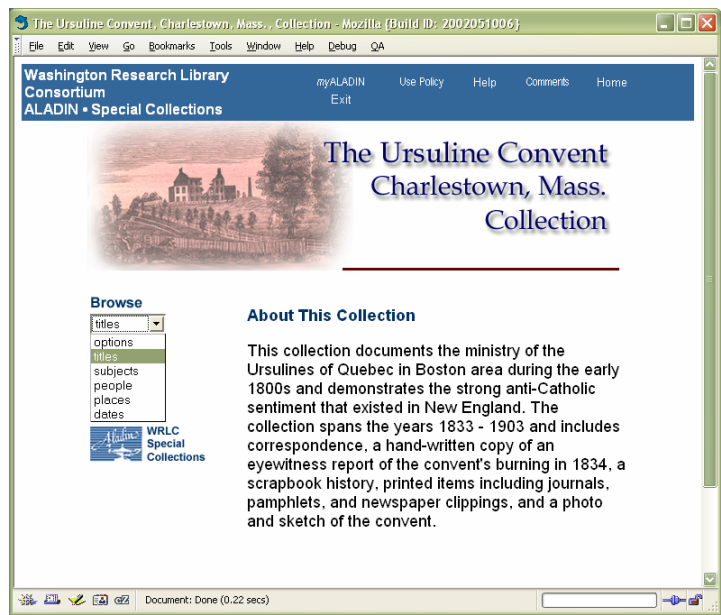
Greenstone is component of larger digital library system

Access to browse redefined

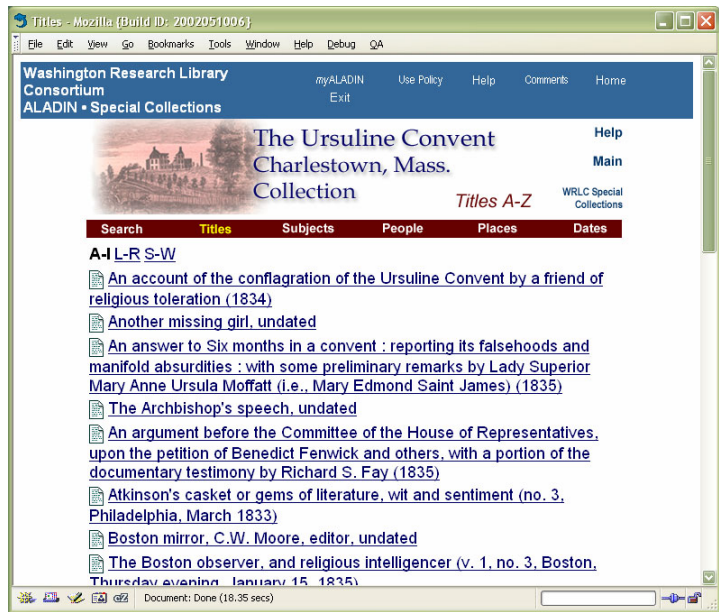
Aladin digital library system



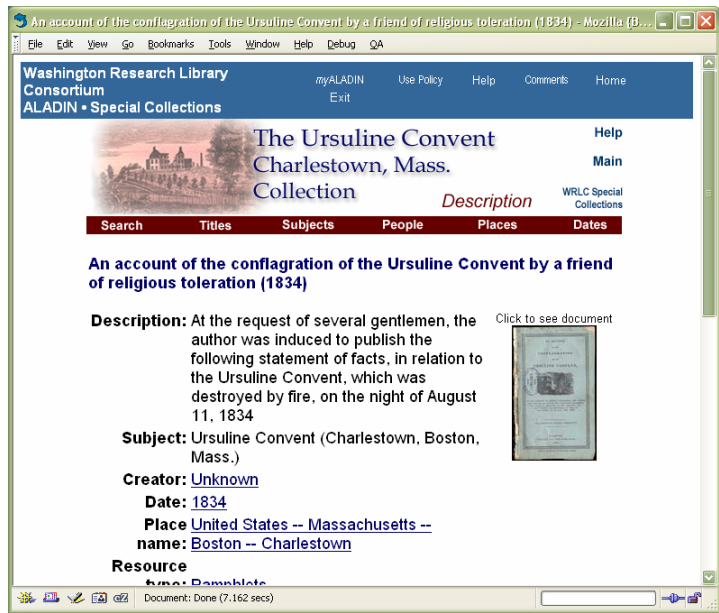
Aladin digital library system



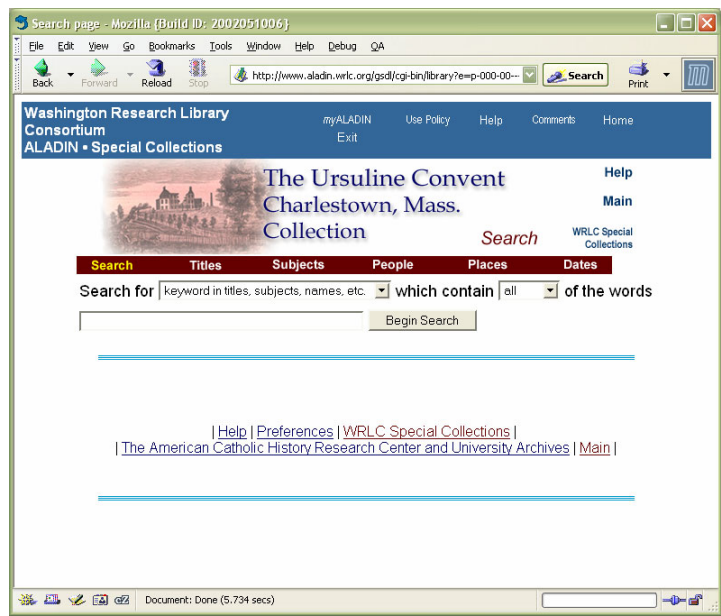
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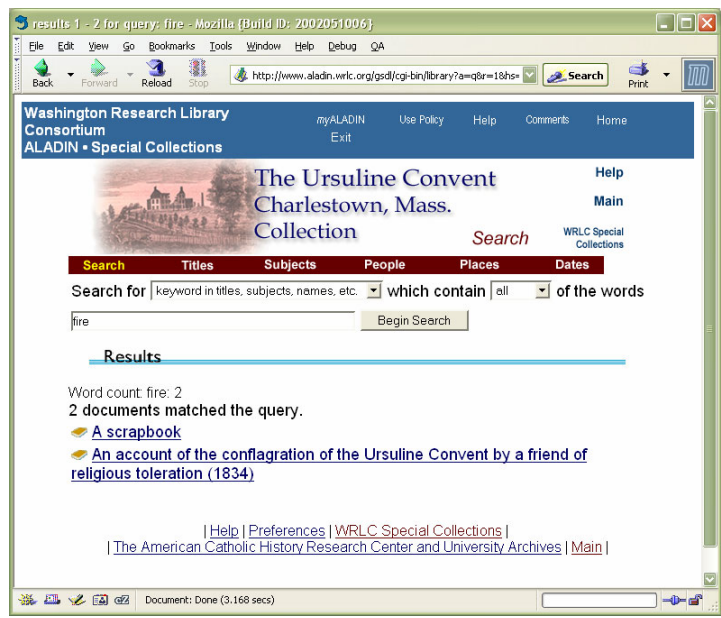
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**Questions?
Comments?
Discussion?
Feedback form!**