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Rowan Brownlee's Beginner's Guide to XTF

Media collections at the University of Sydney Library: Rowan Brownlee's beginner's guide to configuring XTF for presenting non-textual content and metadata

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The [University of Sydney Library](#) is using XTF to enable access to several media collections. The collections are publicly available, and this initiative results from partnerships between the Library, academics and associated project

managers.

When I began working with XTF, I modified the default user interface to cater for presentation of a plant sciences image collection. I then sought to test application of the model across two additional collections within visual arts and archaeology. This section of the XTF wiki provides an outline of the steps I followed, using a collection of image and video reproductions of works created by staff and students at [Sydney College of the Arts](#) (SCA). For the SCA Archive, my project partner is Jacqui Spedding, a ceramic artist and project manager for [SCA Images Online](#).

The presentation model described is not intended to suit all needs. It does however provide an example of adapting XTF stylesheets to suit non-textual media while capitalising on the strength and functionality of the framework.

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Choosing XTF

I was working with botanic taxonomists and other librarians on a plant sciences digital media project titled [eBot](#). We originally contracted a developer to create a [PHP](#) web form and a relational database enabling record creation, image submission, search, display and taxonomy management. Despite everyone's best efforts, the results didn't match the team's expectations.

Seeking an alternative, I discovered that XTF was being used in [April](#), an [Australian Research Council](#) project involving the Library and featuring Gary Browne (the Library's development programmer). XTF will also be an important component of a planned upgrade to the Library's text management platform. Although I wasn't initially sure that XTF would meet the eBot project's needs, there were a number of arguments in its favour. XTF is a 'known' technology backed by the Library, so there is a viable support model. Search and retrieval is very fast and

configuration of presentation highly flexible. The default installation includes a number of example stylesheets suitable for adaptation for presentation of non-textual media such as images and video.

A key feature of XTF is its ability to cater for a wide range of metadata sets. My academic partners all have project- or domain-specific metadata. XTF requires no modification of source metadata and has readily accommodated metadata from the plant sciences, visual arts and archaeology. If an XSLT stylesheet can be written, source metadata can be presented.

XTF is not however a purpose-built media management system and we are investigating options for collection management and media processing. XTF also requires skills in related XML technologies such as XSLT and XPath. On balance, XTF is proving an excellent choice for our media search and presentation needs.

[Next... Gathering content](#)

Gathering content

The SCA media collection management system uses a [Filemaker](#) database which was initially developed by Anthony Green, (Visual Resources Librarian, [Power Institute Visual Resources Library](#)) for use within the Library. As part of an ongoing collaborative project, Anthony made the system available to SCA. Jacqui manages bibliographic metadata and related taxonomies for a number of research and teaching collections at SCA. For the XTF-based Archive, she exports records from Filemaker as a [comma separated](#) file (csv). I process the csv using a [Python](#) script to produce a set of XML records, ready for indexing by XTF.

Jacqui also provides sets of image and video files to be presented with their associated metadata. Using [Photoshop](#) batch processing techniques, Jacqui outputs thumbnail, view, powerpoint and [zoomified](#) versions from the original [archival](#) TIFF files. [Flix](#) provides Flash versions of video files. I use a Python script to check that each XML record is accompanied by its full complement of associated files and that each file is the correct format. (For web viewing of image files we need single-layered 8 bit per channel sRGB in jpeg format). Along with its excellent text processing tools, Python offers a very useful [imaging library](#), and I'm considering additional process checks prior to submission of media and metadata.

[Next... Installation and setup](#)

Installation and setup

I followed the instructions in the XTF [installation quick start](#) to verify that initial setup was successful. I then deleted the sample data and created the following set of directories for metadata and media.

```
data/sca/records
media/sca/images/powerpoint
media/sca/images/thumbs
media/sca/images/view
media/sca/images/zoom
media/sca/video
```

Although the media files are currently located within the XTF directory structure, we will probably house them elsewhere on our storage area network.

[Next... Telling XTF which records to index](#)

Telling XTF which records to index

style/textIndexer/docSelector.xsl

The stylesheet *docSelector.xsl* identifies which files to index and which stylesheets to apply to each type of file.

- [Default docSelector.xsl](#)
- [Modified docSelector.xsl](#)

Default docSelector.xsl

Given sufficient information to identify a category of file, XTF is able to apply the required stylesheets for data processing. The stylesheet *docSelector.xsl* includes a number of example tests enabling [TextIndexer](#) to identify a variety of XML, HTML and other files. In the following extract, one of the ways that XTF identifies an [EAD](#) XML file is to test if the string *ead* appears within a file's [root element](#).

```

<xsl:choose>
  <!-- Look for EAD XML files -->
  <xsl:when test="matches($root-element-name, '^ead$') or
    matches($pid, 'EAD') or
    matches($uri, 'ead\.dtd') or
    matches($ns, 'ead')">
    <indexFile fileName="{ $fileName }"
      preFilter="style/textIndexer/ead/eadPreFilter.xsl"
      displayStyle="style/dynaXML/docFormatter/ead/eadDocFormatter.xsl"/>
  </xsl:when>
  <!-- Look for NLM XML files -->
  <xsl:when test="matches($root-element-name, '^article$') or
    matches($pid, 'NLM') or
    matches($uri, 'journalpublishing\.dtd') or
    matches($ns, 'nlm')">
    <indexFile fileName="{ $fileName }"
      preFilter="style/textIndexer/nlm/nlmPreFilter.xsl"
      displayStyle="style/dynaXML/docFormatter/nlm/nlmDocFormatter.xsl"/>
  </xsl:when>
  <!-- Look for TEI XML file -->
  <xsl:when test="matches($root-element-name, '^TEI') or
    matches($pid, 'TEI') or
    matches($uri, 'tei2\.dtd') or
    matches($ns, 'tei')">
    <indexFile fileName="{ $fileName }"
      preFilter="style/textIndexer/tei/teiPreFilter.xsl"
      displayStyle="style/dynaXML/docFormatter/tei/teiDocFormatter.xsl"/>
  </xsl:when>
  <!-- Default processing for XML files -->
  <xsl:otherwise>
    <indexFile fileName="{ $fileName }"
      type="XML"
      preFilter="style/textIndexer/default/defaultPreFilter.xsl"/>
    <xsl:message select="'Unrecognized XML structure. Indexing using the default'" />
  </xsl:otherwise>
</xsl:choose>
</xsl:for-each>
</xsl:otherwise>
</xsl:choose>
</xsl:when>

<!-- HTML files -->
<xsl:when test="ends-with(@fileName, 'html') or ends-with(@fileName, '.xhtml')">
  <indexFile fileName="{ @fileName }"
    type="HTML"
    preFilter="style/textIndexer/html/htmlPreFilter.xsl"/>
</xsl:when>

```

Modified docSelector.xsl

Within the *file* template, I added a section describing SCA XML metadata files. Since all of the records contain *sca_record* within the root element, I used this as an identifying feature. I also included path references to *scaPreFilter.xsl* and *scaDocFormatter.xsl*. (More on these two files in [identifying metadata elements for indexing](#) and [associating stylesheets with metadata records](#).)

```
<xsl:variable name="root-element-name" select="name(*[1])"/>
<xsl:choose>
  <!-- Look for SCA XML files -->
  <xsl:when test="$root-element-name='sca_record'">
    <indexFile fileName="{ $fileName}"
      preFilter="style/textIndexer/sca/scaPreFilter.xsl"
      displayStyle="style/dynaXML/docFormatter/sca/scaDocFormatter.xsl"/>
  </xsl:when>
</xsl:choose>
```

[Next... Identifying metadata elements for indexing and faceted browsing](#)

Identifying metadata elements for indexing and faceted browsing

style/textIndexer/sca/scaPreFilter.xsl

scaPreFilter.xsl identifies metadata elements for indexing and for [faceted browsing](#). I adapted the example *nlmPreFilter.xsl*, retaining the *import common templates*, *output parameters*, *identify transformation* and *root template* sections. I removed the NLM indexing section but kept the same kind of structure for the *get-meta* template. Most of the stylesheet comprises named templates, each of which target a particular metadata element. The syntactical requirements of *metadata indexing* templates are slightly different to those for *facet* templates, so I created two sets of templates – one to suit each type.

- [Calling named templates: identification of metadata elements](#)
- [Example named templates for metadata indexing](#)
- [Example named templates for faceted browsing](#)

Calling named templates: identification of metadata elements

Extract from the *get-meta* template, listing calls to named templates targeting particular metadata elements for indexing.

```

<!-- ===== -->
<!-- Metadata Indexing -->
<!-- ===== -->

<xsl:template name="get-meta">
  <!-- Access Dublin Core Record (if present) -->
  <xsl:variable name="dcMeta">
    <xsl:call-template name="get-dc-meta"/>
  </xsl:variable>

  <!-- If no Dublin Core present, then extract meta-data from the record -->
  <xsl:variable name="meta">
    <xsl:choose>
      <xsl:when test="$dcMeta/*">
        <xsl:copy-of select="$dcMeta"/>
      </xsl:when>
      <xsl:otherwise>
        <xsl:call-template name="get-sca-type"/>
        <xsl:call-template name="get-sca-title"/>
        <xsl:call-template name="get-sca-index_title"/>
        <xsl:call-template name="get-sca-creator"/>
        <xsl:call-template name="get-sca-name_variant"/>
        <xsl:call-template name="get-sca-classification"/>
        <xsl:call-template name="get-sca-culture"/>
        <xsl:call-template name="get-sca-special_collection"/>
        <xsl:call-template name="get-sca-title_building"/>
        <xsl:call-template name="get-sca-location"/>
        <xsl:call-template name="get-sca-name_as_subject"/>
        <xsl:call-template name="get-sca-style"/>
        <xsl:call-template name="get-sca-subject"/>
        <xsl:call-template name="get-sca-format_media"/>
        <xsl:call-template name="get-sca-format_measurements"/>
        <xsl:call-template name="get-sca-date"/>
        <xsl:call-template name="get-sca-description"/>
        <xsl:call-template name="get-sca-relation"/>
        <xsl:call-template name="get-sca-repository"/>
        <xsl:call-template name="get-sca-origin"/>
        <xsl:call-template name="get-sca-identifier"/>
        <xsl:call-template name="get-sca-resource"/>
        <xsl:call-template name="get-view-image-width"/>
        <xsl:call-template name="get-view-image-height"/>
        <xsl:call-template name="get-sca-rights"/>
        <xsl:call-template name="get-sca-place_creation"/>
        <xsl:call-template name="get-sca-studio"/>
        <xsl:call-template name="get-sca-degree"/>
      </xsl:otherwise>
    </xsl:choose>
  </xsl:variable>

```

Extract from *get-meta* template, listing calls to named templates targeting particular metadata elements for faceted browsing.

```
<!-- Facet metadata -->
<xsl:call-template name="get-sca-facet-creator"/>
<xsl:call-template name="get-sca-facet-subject"/>
<xsl:call-template name="get-sca-facet-classification"/>
<xsl:call-template name="get-sca-facet-culture"/>
<xsl:call-template name="get-sca-facet-special_collection"/>
<xsl:call-template name="get-sca-facet-degree"/>
<xsl:call-template name="get-sca-facet-affiliation"/>
<xsl:call-template name="get-sca-facet-studio"/>
</xsl:otherwise>
</xsl:choose>
</xsl:variable>
```

Example named templates for metadata indexing

```
<!--=====-->
<!-- Named templates for SCA metadata -->
<!--=====-->

<!--Type -->
<xsl:template name="get-sca-type">
  <xsl:choose>
    <xsl:when test="/sca_record/type">
      <type xtf:meta="true">
        <xsl:value-of select="string(/sca_record/type)"/>
      </type>
    </xsl:when>
  </xsl:choose>
</xsl:template>

<!--Title -->
<xsl:template name="get-sca-title">
  <xsl:choose>
    <xsl:when test="/sca_record/titles">
      <xsl:for-each select="/sca_record/titles/title">
        <title xtf:meta="true">
          <xsl:value-of select="."/>
        </title>
      </xsl:for-each>
    </xsl:when>
    <xsl:otherwise>
      <title xtf:meta="true">
        <xsl:value-of select="'unknown'"/>
      </title>
    </xsl:otherwise>
  </xsl:choose>
</xsl:template>
```

Example named templates for faceted browsing

```

<!--=====-->
<!-- Named templates for SCA facet metadata      -->
<!--=====-->

<!--facet creator -->
<xsl:template name="get-sca-facet-creator">
  <xsl:choose>
    <xsl:when test="/sca_record/creator">
      <facet-creator xtf:meta="true" xtf:indexOnly="yes" xtf:tokenize="no">
        <xsl:value-of select="string(/sca_record/creator)"/>
      </facet-creator>
    </xsl:when>
  </xsl:choose>
</xsl:template>

<!--facet subject -->
<xsl:template name="get-sca-facet-subject">
  <xsl:choose>
    <xsl:when test="/sca_record/subject">
      <facet-subject xtf:meta="true" xtf:indexOnly="yes" xtf:tokenize="no">
        <xsl:value-of select="string(/sca_record/subject)"/>
      </facet-subject>
    </xsl:when>
  </xsl:choose>
</xsl:template>

<!--facet classification -->
<xsl:template name="get-sca-facet-classification">
  <xsl:choose>
    <xsl:when test="/sca_record/classifications">
      <xsl:for-each select="/sca_record/classifications/classification">
        <facet-classification xtf:meta="true" xtf:indexOnly="yes" xtf:tokenize="no">
          <xsl:value-of select="."/>
        </facet-classification>
      </xsl:for-each>
    </xsl:when>
  </xsl:choose>
</xsl:template>

```

[Next... Associating stylesheets with metadata records](#)

Associating stylesheets with metadata records

style/dynaXml/docReqParser.xsl

XTF needs to know which stylesheets to apply to the SCA XML records, both for indexing as well as presentation as html pages. Within the root template, I include instructions to associate SCA-specific *preFilter* and *docFormatter* stylesheets with SCA XML records. As described in the [previous section](#), *scaPreFilter.xsl* identifies metadata elements for indexing and faceted browsing. (*scaDocFormatter.xsl* is described in [displaying full records](#)).

The document [root element](#) of each XML file is tested. If it contains *sca_record*, a variable *fileType* is assigned the value *sca*. Statements within the *style* tag and *preFilter* tag test the value of *fileType*. If *fileType* = *sca*, *scaPreFilter.xsl* and *scaDocFormatter.xsl* will be applied to the file.

- [Testing for an SCA XML record](#)
- [Associating scaPreFilter.xsl with SCA XML records \(for indexing\)](#)
- [Associating scaDocFormatter.xsl with SCA XML records \(for presentation as html pages\)](#)

Testing for an SCA XML record

If the XML record contains *sca_record* within the root element, the *fileType* variable is assigned the value *sca*.

```
<xsl:variable name="file" select="concat('.././data/', $docId)"/>
<xsl:variable name="fileType">
  <xsl:for-each select="FileUtils:readXMLStub($file)">

    <xsl:variable name="root-element-name" select="name(*[1])"/>
    <xsl:variable name="pid" select="unparsed-entity-public-id($root-element-name)"/>
    <xsl:variable name="uri" select="unparsed-entity-uri($root-element-name)"/>
    <xsl:variable name="ns" select="namespace-uri(*[1])"/>

    <xsl:choose>
    <!-- Look for SCA XML files -->
      <xsl:when test="matches($root-element-name, 'sca_record')">
        <xsl:value-of select="'sca'"/>
      </xsl:when>
    </xsl:choose>
  </xsl:for-each>
</xsl:variable>
```

Associating scaPreFilter.xsl with SCA XML records (for indexing)

If the *fileType* variable contains the value *sca*, *scaPreFilter.xsl* will be applied to the file.

```
<!-- =====
The "prefilter" tag specifies a filesystem path, relative to the servlet
base directory, to a stylesheet that will be used to build any lazy files
that weren't built at index time (due to specifying -nobuildlazy).
-->

<prefilter path="{
  if      ($fileType = 'sca') then 'style/textIndexer/sca/scaPreFilter.xsl'
  else                                     'style/textIndexer/default/defaultPreFilter.xsl' }"/>
```

Associating scaDocFormatter.xsl with SCA XML records (for presentation as html pages)

If the *fileType* variable contains the value *sca*, *scaDocFormatter.xsl* will be applied to the file.

```
<!-- =====
The "style" tag specifies a filesystem path, relative to the servlet
base directory, to a stylesheet that translates an XML source document
into an HTML page
-->

<style path="{
  if      ($fileType = 'sca') then 'style/dynaXML/docFormatter/sca/scaDocFormatter.xsl'
  else                                     'style/dynaXML/docFormatter/default/docFormatter.xsl' }"/>
```

[Next... Displaying brief search results](#)

Displaying brief search results

`style/crossQuery/resultFormatter/default/resultFormatter.xsl`

For a brief record display showing an image thumbnail and metadata, most of the requirements are met by XTF's default `resultFormatter.xsl` stylesheet.

- [Adding a column for image thumbnails](#)
- [Making thumbnails clickable](#)
- [Altering metadata field labels](#)
- [Screenshot: Default brief record display](#)
- [Screenshot: Modified brief record display](#)

Adding a column for the image thumbnails

Within the `docHit` template, the default XTF brief record display is structured as an html table. In the first row I inserted an additional cell between the record result number and the `Artist` metadata field. I made the cell a fixed width and included a `rowspan` attribute to ensure that all of the associated metadata fields would align to the right of the image.

```
<!-- Thumbnail image row -->
<td rowspan="20" width="250px" align="top" valign="middle">
```

Making the thumbnails clickable

For each retrieved record, XTF needs to know where to find the associated thumbnail image file. In the `Local parameters` section I added a parameter named `thumbsImagePath`.

```
<!-- sca thumbnail images-->
<xsl:param name="thumbsImagePath" select="concat($xtfURL, 'media/sca/images/thumbs')"/>
```

Within the `docHit` template, I used a variable `fileName` to reference the name of the thumbnail file associated with the retrieved metadata record. For the SCA metadata records, the filename is contained within the `resource` metadata field. By concatenating the `fileName` and `thumbsImagePath` within the variable `imageFile`, I provide a thumbnail reference specific to each retrieved record. Each time the template renders a brief record, it has sufficient information (contained within the `imageFile` variable) to find the location of that record's thumbnail.

To make the thumbnail clickable, I copied the xsl already provided for the default clickable title field.

```

<!-- Thumbnail image row -->
<td rowspan="20" width="250px" align = "top" valign="middle">
  <xsl:choose>
    <xsl:when test="meta/resource">
      <xsl:variable name="fileName" select="meta/resource[1]"></xsl:variable>
      <xsl:variable name="imageFile" select="concat ($thumbsImagePath, lower-case (string ($fileName)))"></xsl:variable>

      <!-- Make thumbnail images clickable -->
      <a>
        <xsl:attribute name="href">
          <xsl:choose>
            <xsl:when test="matches (meta/display, 'dynaxml')">
              <xsl:call-template name="dynaxml.url">
                <xsl:with-param name="path" select="$path"/>
              </xsl:call-template>
            </xsl:when>
            <xsl:otherwise>
              <xsl:call-template name="rawDisplay.url">
                <xsl:with-param name="path" select="$path"/>
              </xsl:call-template>
            </xsl:otherwise>
          </xsl:choose>
        </xsl:attribute>
        </img>
      </a>
    </xsl:when>
    <xsl:otherwise>
      </xsl:otherwise>
    </xsl:choose>
  </td>

```

For each thumbnail, its target page is a *full record* display. For more information, see [displaying full records](#).

Altering metadata field display labels

XTF's default brief record layout includes an *Author* metadata label. In the example below, taken from the *docHit* template, I change the label to *Artist*. Note that the metadata tag is named *creator* (reflecting the metadata element tag definition contained in *scaPreFilter.xsl*). See [identifying metadata elements for indexing and faceted browsing](#). Metadata display labels may be different than metadata tag names.

```

<td class="col2">
  <xsl:if test="$sort = 'creator'">
    <a name="{ $anchor }"/>
  </xsl:if>
  <b>Artist: &#160; &#160;</b>
</td>
<td class="col3">
  <xsl:choose>
    <xsl:when test="meta/creator">
      <xsl:apply-templates select="meta/creator[1]"/>
    </xsl:when>
    <xsl:otherwise>none</xsl:otherwise>
  </xsl:choose>
</td>

```

Screenshot: Default brief record display

Default brief record display showing EAD records.

The screenshot shows the XTF interface with the following elements:

- Header:** | extensible Text Framework | graphic
- Navigation:** Bookbag (0), [Modify Search](#), [New Search](#), Browse by Facet | [Title](#) | [Author](#), Page: 1 2 3 [Next](#)
- Search Results:** Browse by: All, Results: 42 Items, Sorted by: relevance [Go]
- Facets:**
 - Subject:**
 - [Wine and wine making](#) (5)
 - [XML](#) (4)
 - [HTML](#) (3)
 - [World Wide Web](#) (3)
 - [African History](#) (2)
 - [more](#)
 - Date:**
 - [2007](#) (4)
 - [2006](#) (6)
 - [2005](#) (11)
 - [2003](#) (1)
 - [2002](#) (5)
 - [2001](#) (2)
 - [2000](#) (3)
 - [1999](#) (1)
 - [1997](#) (3)
 - [1994](#) (1)
 - [1993](#) (2)
 - [1992](#) (1)
 - [1989](#) (2)
- Record 1:**
 - Author:** Bell, Alexander Graham, 1847-1922 [Add](#)
 - Title:** [Alexander Graham Bell Family Papers 1834-1970 \(bulk 1855-1922\)](#) **ead**
 - Published:** 1999
 - Subjects:** [Aeronautics](#) | [Deaf-Education](#) | [Elocution](#) | [Eugenics](#) | [Marine engineering](#) | [Presidents--United States](#) | [Science](#) | [Speech-Physiological aspects](#) | [Technology](#) | [Telephone-History](#)
 - Similar Items:** [Find](#)
- Record 2:**
 - Author:** Clay, Henry, 1777-1852 [Add](#)
 - Title:** [Henry Clay Family Papers 1732-1927 \(bulk 1814-1852\)](#) **ead**
 - Published:** 2000
 - Subjects:** [Burr Conspiracy, 1805-1807](#) | [Banks and banking--Kentucky--Lexington](#) | [Diplomatic and consular service, American--19th century](#) | [Diplomatic and consular service, American--Portugal](#) | [Elections--United States](#) | [Indians of North America--Texas](#) | [Mexicans--Texas](#) | [Nullification](#) | [Practice of law--Kentucky--Lexington](#) | [Presidents--United States--Election--1824](#) | [Presidents--United States--Election--1832](#) | [Presidents--United States--Election--1844](#) | [Presidents--United States--Election--1856](#) | [Public lands--United States](#) | [Slavery--Washington \(D.C.\)](#) | [Tariff--United States](#)
 - Similar Items:** [Find](#)
- Record 3:**
 - Author:** De Forest, Lee, 1873-1961 [Add](#)
 - Title:** [Papers of Lee De Forest 1884-1955](#) **ead**
 - Published:** 1997
 - Subjects:** [Electronics](#) | [Inventions](#) | [Preparatory schools](#) | [Radio](#) | [Sound--Recording and reproducing](#) | [Sound--Transmission](#) | [Wireless communication systems](#)
 - Similar Items:** [Find](#)

Screenshot: Modified brief record display

Modified brief record display illustrating the addition of image thumbnails and SCA metadata elements. Note that facets are not yet displaying. Although metadata elements have been identified for faceted browsing (described in [Identifying metadata elements for indexing and faceted browsing](#)), additional work is required to produce facets (*see sorting, browsing and facets*).

The screenshot shows the XTF interface with the following details:

- Header: |eXtensible Text Framework| graphic
- Navigation: Browse by: All, Results: 558 Items, Sorted by: relevance, Go!
- Right-side links: Citations (0), Modify Search, New Search, Browse by Facet | Title | Artist, Page: 1 2 3 4 5 ... Next
- Result 1:
 - Number: 1
 - Thumbnail:
 - Artist: Guy, Jan 1963-
 - Title: [Figure](#)
 - Date: 1987
 - Media: Coloured stains, under glaze, gold leaf on ceramic (hand-built)
 - Similar Items: [Find](#)
 - Action: [Add](#)
- Result 2:
 - Number: 2
 - Thumbnail:
 - Artist: Abraham, Heidi
 - Title: [Untitled](#)
 - Date: 2007
 - Similar Items: [Find](#)
 - Action: [Add](#)
- Result 3:
 - Number: 3
 - Thumbnail:
 - Artist: Sanzeeda, Ali
 - Title: [Untitled](#)
 - Date: 2007
 - Similar Items: [Find](#)
 - Action: [Add](#)

In the above screenshot, *Bookbag* has changed to *Citations*. This is another simple change to display text, along the lines of altering a metadata field label.

[Next... Displaying full records](#)

Displaying full records

`style/dynaXML/docFormatter/sca/scaDocFormatter.xsl`

In [associating stylesheets with metadata records](#), I describe how a relationship is signified between a particular stylesheet and its associated set of XML records. All SCA XML records are associated with the *scaDocFormatter* stylesheet. When a user clicks on a title hyperlink or image thumbnail within a brief record, XTF has sufficient information to identify the target XML file and its related stylesheet, applying the stylesheet to the XML to render html.

- [Defining parameters to save time and ease maintenance](#)
- [Selecting a template matching requested layout](#)
- [Formatting a full record](#)
- [Screenshot: Full record display](#)
- [Incorporating additional navigation options on a full record page](#)
- [Screenshot: Full record with button-bar navigation options](#)
- [Generating hyperlinks to other types of images](#)
- [Generating hyperlinks to video](#)
- [Including header and footer information](#)

Defining parameters to save time and ease maintenance

The *scaDocFormatter.xsl* stylesheet is based on *nlmDocFormatter.xsl* included in the default installation, with the addition of a number of parameters containing information such as the location of types of image and video files. Using parameters provides a means of maintaining in one place information that might be used in multiple locations within a stylesheet. As an example, if I wish to reference the path to the location of the powerpoint versions of the image files, it is easier to use the shorthand `$powerpointImagePath` than writing out the complete directory path

each time. Later if I decide to change the location of the files, I need only alter the location information once within the definition of the parameter.

```
<!-- For sca media files -->
<xsl:param name="scaRecordNumber" select="lower-case(normalize-space(string(/sca_record/resource_number)))"></xsl:param>
<xsl:param name="viewImageWidth" select="normalize-space(string(/sca_record/image_width_view))"></xsl:param>
<xsl:param name="imageFilePath" select="concat($xtfURL, 'media/sca/images/')"></xsl:param>
<xsl:param name="zoomifyImageFilePath" select="concat($xtfURL, 'media/sca/images/zoom/')"></xsl:param>
<xsl:param name="zoomifyImageViewer" select="concat($xtfURL, 'media/sca/images/zoom/viewer/zoomifyViewer.swf')"></xsl:param>
<xsl:param name="imageFileZoomifyDirectoryExtension" select="'_img'"></xsl:param>
<xsl:param name="zoomifyImage" select="concat($zoomifyImageFilePath,$scaRecordNumber,$imageFileZoomifyDirectoryExtension)"></xsl:param>
<xsl:param name="powerpointImageFilePath" select="concat($xtfURL, 'media/sca/images/powerpoint/')"></xsl:param>
<xsl:param name="viewImageFilePath" select="concat($xtfURL, 'media/sca/images/view/')"></xsl:param>
<xsl:param name="imageFileExtension" select="'.jpg'"></xsl:param>
<xsl:param name="videoPath" select="concat($xtfURL, 'media/sca/video/')"></xsl:param>
<xsl:param name="flashVideo" select="concat($videoPath,$scaRecordNumber, '.swf')"></xsl:param>
```

Selecting a template matching requested layout

The root template in the default nlmDocFormatter stylesheet uses a [choose](#) element to provide options for dealing with requests to see various types of layout, such as table of contents, citation or print view. Each choice corresponds to a template which formats the content to match the desired view. At this stage I intend to include templates for print, citation, full record zoom (for display of [zoomified](#) versions of the images) and video (for presenting [Flash](#) files). I'm not using the frames template and the default view will be full record.

Default root template

```
<!-- ===== -->
<!-- Root Template -->
<!-- ===== -->

<xsl:template match="/">
  <xsl:choose>
    <!-- robot solution -->
    <xsl:when test="matches($http.user-agent,$robots)">
      <xsl:call-template name="robot"/>
    </xsl:when>
    <xsl:when test="$doc.view='bbar'">
      <xsl:call-template name="bbar"/>
    </xsl:when>
    <xsl:when test="$doc.view='toc'">
      <xsl:call-template name="toc"/>
    </xsl:when>
    <xsl:when test="$doc.view='content'">
      <xsl:call-template name="content"/>
    </xsl:when>
    <xsl:when test="$doc.view='citation'">
      <xsl:call-template name="citation"/>
    </xsl:when>
    <xsl:when test="$doc.view='print'">
      <xsl:call-template name="print"/>
    </xsl:when>
    <xsl:otherwise>
      <xsl:call-template name="frames"/>
    </xsl:otherwise>
  </xsl:choose>
</xsl:template>
```

Modified root template showing additional zoom and video options and default setting for full record.

```
<!-- ===== -->
<!-- Root Template -->
<!-- ===== -->
<xsl:template match="/">
  <xsl:choose>
    <!-- robot solution -->
    <xsl:when test="matches($http.user-agent,$robots)">
      <xsl:call-template name="robot"/>
    </xsl:when>
    <xsl:when test="$doc.view='bbar'">
      <xsl:call-template name="bbar"/>
    </xsl:when>
    <xsl:when test="$doc.view='toc'">
      <xsl:call-template name="toc"/>
    </xsl:when>
    <xsl:when test="$doc.view='content'">
      <xsl:call-template name="content"/>
    </xsl:when>
    <xsl:when test="$doc.view='citation'">
      <xsl:call-template name="citation"/>
    </xsl:when>
    <xsl:when test="$doc.view='zoom'">
      <xsl:call-template name="zoom"/>
    </xsl:when>
    <xsl:when test="$doc.view='video'">
      <xsl:call-template name="video"/>
    </xsl:when>
    <xsl:when test="$doc.view='print'">
      <xsl:call-template name="print"/>
    </xsl:when>
    <xsl:otherwise>
      <xsl:call-template name="full_record"/>
    </xsl:otherwise>
  </xsl:choose>
</xsl:template>
```

Formatting a full record

Whenever *scaDocFormatter.xsl* is applied to an SCA XML record (such as when a user clicks on an image thumbnail in a brief record or its accompanying brief record title), the content is rendered using the full record template. An SCA full record comprises a number of elements such as artist, title, classification, culture, subject and copyright. For each element, the full record template tests whether the requested XML record contains the required information. In each case, if the information exists a field label is displayed along with the accompanying metadata.

Extract from the full record template illustrating the display of metadata elements dependent on their occurrence within an SCA XML record

```

<table class="resultTable">
  <tr>
    <td>
      <span><xsl:variable name="imageFile" select="concat($viewImageFilePath,$scaRecordNumber,'.jpg')">
      </xsl:variable> </img>
      </span>
    </td>
    <td>
      <table>
        <!-- Artist -->
        <xsl:if test="normalize-space(/sca_record/creator)">
          <tr class="recordRow">
            <td width="40%" align="left" valign="middle">
              <span class="fieldName"><xsl:value-of select="'Artist'"></xsl:value-of></span>
            </td>
            <td width="60%" align="left" valign="middle">
              <span class="fieldData"><xsl:value-of select="normalize-space(/sca_record/creator)"/></span>
            </td>
          </tr>
        </xsl:if>

        <!-- Title -->
        <xsl:if test="normalize-space(/sca_record/titles)">
          <tr class="recordRow">
            <td>
              <span class="fieldName"><xsl:value-of select="'Title'"></xsl:value-of></span>
            </td>
            <td>
              <span class="fieldData">
                <xsl:for-each select="/sca_record/titles/title">
                  <xsl:value-of select="."/>
                  <xsl:if test="position() != last()">
                    <br></xsl:if>
                </xsl:for-each>
              </span>
            </td>
          </tr>
        </xsl:if>
      </table>
    </td>
  </tr>
</table>

```

Screenshot: Full record display

|eXtensible Text Framework| graphic

Full record display
 Download a [powerpoint](#) or [web](#) image, or [zoom](#) a full-sized image.

	<p>Artist Title Date Media Classification Culture Collection Subject Studio Affiliation Copyright</p>	<p>Guy, Jan 1963- Figure 1987 Ceramics Ceramics - sculpture International International - Australia International - Australia - Late 20th c SCA Archive figure, the Ceramics Staff member - current Commonwealth of Australia. Copyright Regulation. Warning. This material has been reproduced and communicated to you by or on behalf of the University of Sydney pursuant to Part VB of the Copyright Act 1968 (the Act). The material in this communication may be subject to copyright under the Act. Any further reproduction or communication of this material by you may be the subject of copyright protection under the Act. Do not remove this notice.</p>
---	---	--

In the example, despite using a test to display a *media* field label only on occasions when accompanying metadata

exists, the label is displaying against an apparently empty field. It could be the case that the source metadata record contains characters in the media field which although not displaying, pass the test by the fact of their existence. A more effective test may involve a simple [regular expression](#) to make field label display dependent on the occurrence of alphabetic or numeric characters.

Incorporating additional navigation options on a full record page

The above screenshot includes no option to return to the previous page. This can be remedied by including a reference to XTF's button bar. By default the button bar provides links to print and citation displays, return to search results and home. The template can be called using the following instruction.

```
<xsl:call-template name="bbar"> </xsl:call-template>
```

Although the template is included in a separate stylesheet, it can be called from within scaDocformatter.xsl, as it has been imported.

```
<xsl:import href="../../../common/docFormatterCommon.xsl"/>
```

Screenshot including reference to the button bar template (bbar).

```
<!-- ===== -->
<!-- Full record Template -->
<!-- ===== -->
<xsl:template name="full_record">
  <html xml:lang="en" lang="en">
    <head>
      <title>SCA Archive Images: Full record</title>
      <meta http-equiv="Content-Type" content="text/html; charset=UTF-8"/>
      <xsl:copy-of select="$brand.links"/>
      <!-- AJAX support -->
      <script src="script/yui/yahoo-dom-event.js" type="text/javascript"/>
      <script src="script/yui/connection-min.js" type="text/javascript"/>
      <link rel="stylesheet" type="text/css" href="{ $css.path } { $content.css }"/>
    </head>
    <body>
      <xsl:copy-of select="$brand.header"/>
      <xsl:call-template name="bbar"> </xsl:call-template>
    </body>
  </html>
</xsl:template>
```

Screenshot: Full record with button-bar navigation options

The following image was captured after the site was [styled](#)

 The University of Sydney
Sydney College of the Arts Archive Images

[University Home](#) [SCA Images Online](#) [Library](#) [Collection Home](#) [About](#) [Contact](#)

[Home](#) | [Return to Search Results](#) [Citation](#) | [Print View](#)

Full record

Download a [powerpoint](#) or [web image](#), or [zoom](#) a full-sized image.



Artist	Bader, Vilma
Title	Untitled
Date	2007
Classification	Painting
Culture	International - Australia - Contemporary
Collection	SCA Archive Exhibitions, Degree Shows, Sydney College of the Arts, 2007
Studio	Painting
Degree	Bachelor of Visual Arts -- BVA
Affiliation	Alumni
Copyright	Image created by permission of the copyright holder

By default, XTF's button bar includes a search box (for searching within the currently displayed text). As this isn't required for the SCA collection, it is commented out from the template (`/style/dynaXML/docFormatter/Common/docFormatterCommon.xml`).

Generating hyperlinks to other types of images

The screenshot above includes hyperlinks to *powerpoint*, *web* and *zoomified* image displays. Each image filename comprises a record number and a file extension. (eg. `sca3501-1.jpg`). As described in [installation and setup](#), each set of images is contained in a separate directory. To create the hyperlink targets, the full record template concatenates the directory path, record number and file extension (each of which is specified as a parameter, as described earlier in this section).

The hyperlink references a variable containing information identifying the record currently being displayed, and the desired view option.

```
<xsl:variable name="zoom.href">
  <xsl:value-of select="$xtfURL"/>view?<xsl:value-of select="$query.string"/>doc.view=zoom
</xsl:variable>
<a href="{ $zoom.href }">zoom</a><xsl:text> a full-sized image.</xsl:text>
```

Extract from full record template illustrating the creation of hyperlink targets for display of *powerpoint*, *web* and *zoomified* images.

```

<table width="100%" >
  <tbody>
    <xsl:choose>
      <xsl:when test="$scaRecordNumber">
        <tr class="imageRow">
          <td class="downloadLink" align="left" valign="middle"></td>
        </tr>
        <tr class="imageRow">
          <td class="downloadLink" align="left" valign="middle">
            <xsl:variable name="powerpointImage" select="concat ($powerpointImagePath,$scaRecordNumber,$imageFileExtension) ">
            </xsl:variable>
            <xsl:variable name="webImage" select="lower-case (concat ($viewImagePath,$scaRecordNumber,$imageFileExtension)) ">
            </xsl:variable>
            <xsl:text>Download a </xsl:text><a href="{ $powerpointImage}" target="_blank">powerpoint</a><xsl:text> or </xsl:text>
            <a href="{ $webImage}" target="_blank" >web</a><xsl:text> image, or </xsl:text>
            <a href="{ $zoom.href}">zoom</a><xsl:text> a full-sized image.</xsl:text>
          </td>
        </tr>
      </xsl:when>
    </xsl:choose>
  </tbody>
</table>

```

Using the above technique, clicking on a hyperlink for a zoomified image displays a static html page pre-generated using photoshop's [zoomify](#) export. A more flexible approach is to use a template to generate the html wrapper for the zoomified image via XTF. This enables dynamic incorporation of image metadata within the page. (See [zoomable image display](#)).

Generating hyperlinks to video

Although every record is associated with a common set of images (including thumb and zoom), only a small number describe video files. Metadata records contain information about available format types (such as digital image and video), and I use the occurrence of this information to control hyperlink display. Catering for conditional inclusion of video hyperlinks involves a slight modification of the instructions covered in the previous section.

Within the full record template, a hyperlink references a variable containing information identifying the record currently being displayed, and the desired view option.

```

<xsl:variable name="videoTest" select="/sca_record/video_available"></xsl:variable>

<xsl:variable name="video.href">
  <xsl:value-of select="$xtfURL"/>view?<xsl:value-of select="$query.string"/>;doc.view=video
</xsl:variable>

```

Extract from full record template illustrating the use of a test for conditional display of video playback hyperlinks.

```

<!-- Include a test to determine the types of links to display -->
<xsl:choose>
  <xsl:when test="$videoTest = 'yes'">
    <a href="{ $video.href}">Play video</a><xsl:text> , download a </xsl:text>
    <a href="{ $powerpointImage}" target="_blank">powerpoint</a><xsl:text> or </xsl:text>
    <a href="{ $webImage}" target="_blank" >web</a><xsl:text> image, or </xsl:text>
    <a href="{ $zoom.href}">zoom</a><xsl:text> a full-sized image.</xsl:text>
  </xsl:when>
  <xsl:otherwise>
    <xsl:text>Download a </xsl:text>
    <a href="{ $powerpointImage}" target="_blank">powerpoint</a><xsl:text> or </xsl:text>
    <a href="{ $webImage}" target="_blank" >web</a><xsl:text> image, or </xsl:text>
    <a href="{ $zoom.href}">zoom</a><xsl:text> a full-sized image.</xsl:text>
  </xsl:otherwise>
</xsl:choose>

```

Including header and footer information

In the full record screenshot above, the header is the blue section along the top of the page. The header and footer are displayed by including within the full record template references to `$brand.header` and `$brand.footer`.

```
<xsl:copy-of select="$brand.header" />
<xsl:copy-of select="$brand.footer" />
```

The header and footer are defined within `brand/default.xml`. (For more information, see [styling the site](#)).

[Next... Zoomable image display](#)

Zoomable image display

`style/dynaXML/docFormatter/sca/scaDocFormatter.xsl`

- [Screenshot: Full record with zoom hyperlink](#)
- [Configuring zoom hyperlink](#)
- [Zoom template](#)
- [Screenshot: Full record with zoomified image](#)

Layout for a page displaying a zoomable image is similar to that for a [print view](#), with the addition of header and footer information. (For information about including branding and header/footer content, see [styling the site](#)).

Screenshot: Full record with zoom hyperlink

The option to zoom a full-sized image is included as a hyperlink on the [full record display](#) page (blue hyperlink just under the *Full record* heading).


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[Citation](#) | [Print View](#)

Full record

Download a powerpoint or web image, or zoom a full-sized image.



Artist	Bader, Vilma
Title	Untitled
Date	2007
Classification	Painting
Culture	International - Australia - Contemporary
Collection	SCA Archive Exhibitions, Degree Shows, Sydney College of the Arts, 2007
Studio	Painting
Degree	Bachelor of Visual Arts -- BVA
Affiliation	Alumni
Copyright	Image created by permission of the copyright holder

Configuring zoom hyperlink

The hyperlink references a variable containing information identifying the record currently being displayed, and the desired view option.

```
<xsl:variable name="zoom.href">
  <xsl:value-of select="$xtfURL"/>view?<xsl:value-of select="$query.string"/>&#038;doc.view=zoom&#038;
</xsl:variable>
```

```
<a href="{ $zoom.href }">zoom</a><xsl:text> a full-sized image.</xsl:text>
```

Zoom template

Clicking on the link supplies this information to scaDocFormatter.xsl, which calls the specified document view template. The zoom template relates the current record with the path to the zoomified image, and holds this information in a variable called *zoomifyImage*. (XTF knows to use scaDocFormatter.xsl because of an [association previously defined](#) within docSelector.xsl).

The parameter *zoomifyImage* (defined [earlier](#)) is referenced by the section of the template responsible for configuring and displaying the flash player used to render and navigate the zoomable image.

```

<!-- ===== -->
<!-- Zoomified record Template -->
<!-- ===== -->
<xsl:template name="zoom">
  <html xml:lang="en" lang="en">
    <head>
      <title>SCA Archive images: Zoomified image display</title>
      <meta http-equiv="Content-Type" content="text/html; charset=UTF-8"/>
      <xsl:copy-of select="$brand.links"/>
      <!-- AJAX support -->
      <script src="script/yui/yahoo-dom-event.js" type="text/javascript"/>
      <script src="script/yui/connection-min.js" type="text/javascript"/>
      <link rel="stylesheet" type="text/css" href="{ $css.path } { $content.css }"/>
    </head>
    <body>
      <xsl:copy-of select="$brand.header"/>
      <xsl:call-template name="bbar" />
      <div class="results">
        <table width="100%">
          <tbody>
            <tr>
              <td>&#160;&#160;&#160;&#160;&#160;&#160;&#160;</td>
            </tr>
            <tr>
              <td><span class="fullRecordHeading">Full record with zoomified image</span></td>
            </tr>
          </tbody>
        </table>
        <table width="100%">
          <tbody>
            <tr class="imageRow">
              <td class="downloadlink" vAlign="middle" align="left"></td>
            </tr>
            <tr class="imageRow">
              <td class="downloadlink" vAlign="middle" align="left">Zoom by clicking on the image, or use the controls
                at the base. Scroll to read descriptive information.</td>
            </tr>
          </tbody>
        </table>
        <table>
          <tbody>
            <tr>
              <td>
                <object classid="clsid:D27CDB6E-AE6D-11cf-96B8-444553540000"
                  codebase="http://download.macromedia.com/pub/shockwave/cabs/flash/swflash.cab#version=9,0,0,0"
                  width="800" height="600" id="theMovie">
                  <param name="FlashVars" value="zoomifyImagePath={ $zoomifyImage }">
                  <param name="bgcolor" value="#ffffff"/>
                  <param name="menu" value="false"/>
                  <param name="src" value="{ $zoomifyImageViewer }"/>
                  <embed FlashVars="zoomifyImagePath={ $zoomifyImage }" src="{ $zoomifyImageViewer }" bgcolor="#ffffff" menu="false"
                    pluginspace="http://www.macromedia.com/shockwave/download/index.cgi?P1_Prod_Version=ShockwaveFlash"
                    width="800" height="600" name="theMovie"/>
                </param>
              </object></td>
            </tr>
          </tbody>
        </table>
        <table>
          <tbody>
            <tr>
              <td>&#160;&#160;&#160;&#160;&#160;&#160;&#160;</td>
            </tr>
          </tbody>
        </table>
        <table width="60%">
          <xsl:call-template name="metadata" />
        </table>
      </div>
    </body>
  </html>
</xsl:template>

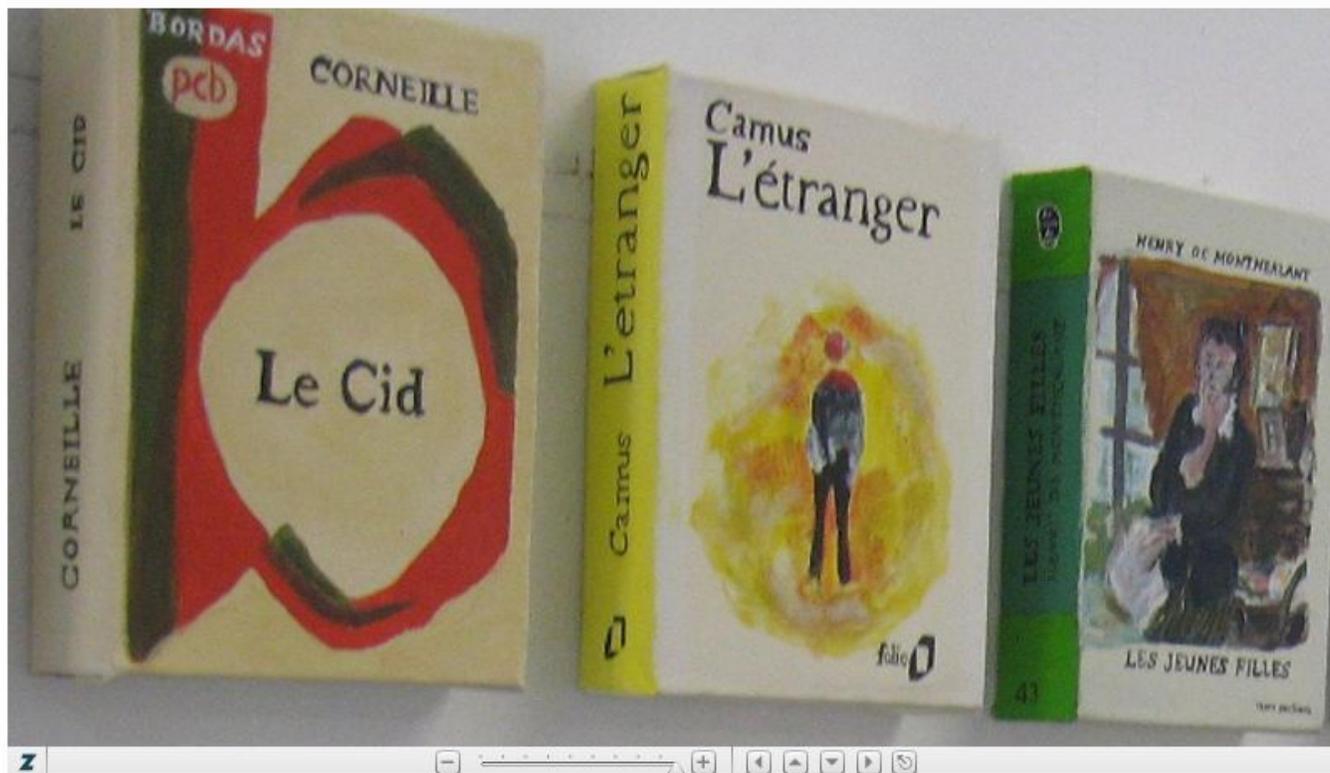
```

The zoom template acts as a dynamic and flexible option for presenting zoomable images wrapped in associated metadata. A customisable (though static) html presentation for zoomable images can alternately be generated through Photoshop.

Screenshot: Full record with zoomified image

Full record with zoomified image

Zoom by clicking on the image, or use the controls at the base. Scroll to read descriptive information.



Artist	Bader, Vilma
Title	Untitled
Date	2007
Classification	Painting
Culture	International - Australia - Contemporary
Collection	SCA Archive Exhibitions, Degree Shows, Sydney College of the Arts, 2007

[Next... Video playback](#)

Video playback

style/dynaXML/docFormatter/sca/scaDocFormatter.xsl

- [Testing whether a metadata record describes a video](#)
- [Screenshot: Full record with video hyperlink](#)
- [Screenshot: Full record without video hyperlink](#)
- [Configuring video hyperlink](#)
- [Video template](#)
- [Screenshot: Video playback](#)

Layout for a page including a video is similar to that for a [zoomable image view](#), with both presenting content using [Flash](#).

Testing whether a metadata record describes a video

Although every record is associated with a common set of images (including thumb and zoom), only a small number describe video files. Metadata records contain information about available format types (such as digital image and video), and I use the occurrence of this information to control hyperlink display. If a record is accompanied by a video, a playback hyperlink displays on the [full record display](#) page (blue hyperlink just under the *Full record* heading).

Screenshot: Full record with video hyperlink


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Sydney College of the Arts Archive Images

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Home | [Return to Search Results](#)
[Citation](#) | [Print View](#)

Full record

Play video, download a powerpoint or web image, or zoom a full-sized image.



Artist	Farhat, Chimene
Title	Untitled
Date	2007
Classification	Film and Video
Culture	International - Australia - Contemporary
Collection	SCA Archive Exhibitions, Degree Shows, Sydney College of the Arts, 2007
Studio	Film and Digital Arts
Degree	Bachelor of Visual Arts -- BVA
Affiliation	Alumni
Copyright	Image created by permission of the copyright holder

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Screenshot: Full record without video hyperlink


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Full record

Download a [powerpoint](#) or [web image](#), or [zoom](#) a full-sized image.



Artist	Bader, Vilma
Title	Untitled
Date	2007
Classification	Painting
Culture	International - Australia - Contemporary
Collection	SCA Archive Exhibitions, Degree Shows, Sydney College of the Arts, 2007
Studio	Painting
Degree	Bachelor of Visual Arts -- BVA
Affiliation	Alumni
Copyright	Image created by permission of the copyright holder

Presentation of this collection is an initiative of the University of Sydney Library in partnership with Jacqui Spedding, Project Manager for Sydney College of the Arts Images Online. Digital objects and metadata provided by Jacqui Spedding. Site created by Rowan Brownlee, Digital Project Analyst, University of Sydney Library, using the eXtensible Text Framework (XTF).
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Configuring video hyperlink

Within the full record template, a hyperlink references a variable containing information identifying the record currently being displayed, and the desired view option.

```
<xsl:variable name="videoTest" select="/sca_record/video_available"></xsl:variable>
```

```
<xsl:variable name="video.href">
  <xsl:value-of select="$xtfURL"/>view?<xsl:value-of select="$query.string"/>&#038;doc.view=video&#038;
</xsl:variable>
```

The following instructions are similar to those [previously used to generate hyperlinks](#) to enable access to various forms of an image (such as zoom or powerpoint). The only difference in this case is the addition of a conditional statement to ensure that a link for a video playback page will only display if the metadata indicates availability of a video file.

```
<!-- Include a test to determine the types of links to display -->
<xsl:choose>
  <xsl:when test="$videoTest = 'yes'">
    <a href="{ $video.href}">Play video</a><xsl:text> , download a </xsl:text>
    <a href="{ $powerpointImage}" target="_blank">powerpoint</a><xsl:text> or </xsl:text>
    <a href="{ $webImage}" target="_blank" >web</a><xsl:text> image, or </xsl:text>
    <a href="{ $zoom.href}">zoom</a><xsl:text> a full-sized image.</xsl:text>
  </xsl:when>
  <xsl:otherwise>
    <xsl:text>Download a </xsl:text>
    <a href="{ $powerpointImage}" target="_blank">powerpoint</a><xsl:text> or </xsl:text>
    <a href="{ $webImage}" target="_blank" >web</a><xsl:text> image, or </xsl:text>
    <a href="{ $zoom.href}">zoom</a><xsl:text> a full-sized image.</xsl:text>
  </xsl:otherwise>
</xsl:choose>
```

Video template

When the video hyperlink is clicked, *scaDocFormatter.xsl* calls the *video* document view template. The video template relates the current record with the path to the video, and holds this information in a parameter called *flashVideo*. (XTF knows to use *scaDocFormatter.xsl* because of an [association previously defined](#) within *docSelector.xsl*).

The parameter *flashVideo* (defined [earlier](#)) is referenced by the section of the template responsible for configuring and displaying the flash video player.

```

<!-- ===== -->
<!-- Video template -->
<!-- ===== -->
<xsl:template name="video">
  <xsl:variable name="flashExpressInstall" select="concat($xtfURL, script/flash/expressInstall.swf)">
</xsl:variable>
<html xml:lang="en" lang="en">
  <head>
    <title>SCA Archive images: Full record with video</title>
    <meta http-equiv="Content-Type" content="text/html; charset=UTF-8"/>
    <xsl:copy-of select="$brand.links"/>
    <!-- AJAX support -->
    <script src="script/yui/yahoo-dom-event.js" type="text/javascript"/>
    <script src="script/yui/connection-min.js" type="text/javascript"/>
    <link rel="stylesheet" type="text/css" href="{ $css.path } { $content.css }"/>
  </head>
  <body>
    <xsl:copy-of select="$brand.header"/>
    <xsl:call-template name="bbar"> </xsl:call-template>
    <div class="results">
      <table width="100%">
        <tbody>
          <tr>
            <td>&#160;&#160;&#160;&#160;&#160;&#160;&#160;&#160;&#160;</td>
          </tr>
          <tr>
            <td><span class="fullRecordHeading">Full record with video</span></td>
          </tr>
        </tbody>
      </table>
      <table width="100%">
        <tbody>
          <tr class="imageRow">
            <td class="downloadlink" vAlign="middle" align="left"></td>
          </tr>
          <tr class="imageRow">
            <td class="downloadlink" vAlign="middle" align="left">Click on the player screen, or use the controls
              at the base.</td>
          </tr>
        </tbody>
      </table>
      <table>
        <tbody>
          <tr>
            <td>
              <object classid="clsid:D27CDB6E-AE6D-11cf-96B8-444553540000" width="673" height="598" id="FlashID"
                title="SCA Video">
                <param name="movie" value="{ $flashVideo }" />
                <param name="quality" value="high" />
                <param name="wmode" value="opaque" />
                <param name="swfversion" value="8.0.35.0" />
                <!-- This param tag prompts users with Flash Player 6.0 r65 and higher to download the latest
                  version of Flash Player. Delete it if you don't want users to see the prompt. -->
                <param name="expressinstall" value="{ $flashExpressInstall }" />
                <!-- Next object tag is for non-IE browsers. So hide it from IE using IECC. -->
                <!--[if !IE]>-->
                <object type="application/x-shockwave-flash" data="{ $flashVideo }" width="673" height="598">
                  <!--<![endif]-->
                  <param name="quality" value="high" />
                  <param name="wmode" value="opaque" />
                  <param name="swfversion" value="8.0.35.0" />
                  <param name="expressinstall" value="{ $flashExpressInstall }" />
                  <!-- The browser displays the following alternative content for users with Flash Player 6.0 and older. -->
                  <div>
                    <h4>Content on this page requires a newer version of Adobe Flash Player.</h4>
                    <p><a href="http://www.adobe.com/go/getflashplayer">
                      </a></p>
                  </div>
                <!--[if !IE]>-->
                </object>
                <!--<![endif]-->
              </object>
            </td>
            <td>
              <table>
                <xsl:call-template name="metadata"> </xsl:call-template>
              </table>
            </td>
          </tr>
        </tbody>
      </table>
    </div>
  </body>
</html>

```

Screenshot: Video playback


The University of Sydney
Sydney College of the Arts Archive Images

University Home SCA Images Online Library Collection Home About Contact
Home | Return to Search Results
Citation | Print View

Full record with video

Click on the player screen, or use the controls at the base.



Artist	Farhat, Chimene
Title	Untitled
Date	2007
Classification	Film and Video
Culture	International - Australia - Contemporary
Collection	SCA Archive Exhibitions, Degree Shows, Sydney College of the Arts, 2007
Studio	Film and Digital Arts
Degree	Bachelor of Visual Arts -- BVA
Affiliation	Alumni
Copyright	Image created by permission of the copyright holder

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 Authorised by: University Librarian, University of Sydney Library. Last Updated: March 9 2009

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Next... Video playback part two: Offering video for high, medium and low-speed connections

Video playback part two: Offering video for high-, medium- and low-speed connections

style/dynaXML/docFormatter/sca/scaDocFormatter.xsl

- [Configuring video hyperlinks](#)
- [Video display options within the root template](#)
- [Video template](#)
- [Screenshot: Full record with video hyperlinks](#)

I have Flash video suited for 1000k, 512k and 56k connections (via [Flix](#)). I use a [named template with parameters](#) to handle requests for the different video resolutions. By using parameters, I avoid the need to repeat almost identical templates, and this assists maintenance.

Configuring video hyperlinks

This is similar to the setup in the [previous section](#), though now I have several variables.

```
<xsl:variable name="video-high.href">
  <xsl:value-of select="$xtfURL"/>view?<xsl:value-of select="$query.string"/>#038;doc.view=video-high#038;
</xsl:variable>
<xsl:variable name="video-med.href">
  <xsl:value-of select="$xtfURL"/>view?<xsl:value-of select="$query.string"/>#038;doc.view=video-med#038;
</xsl:variable>
<xsl:variable name="video-low.href">
  <xsl:value-of select="$xtfURL"/>view?<xsl:value-of select="$query.string"/>#038;doc.view=video-low#038;
</xsl:variable>
```

Slight change to the test used to determine which hyperlinks will display.

```
<!-- Test which type of hyperlinks to display. -->
<xsl:choose>
  <xsl:when test="$videoTest = 'yes'">
    <xsl:text>Play video at </xsl:text><a href="{ $video-high.href }">high</a><xsl:text>, </xsl:text>
    <a href="{ $video-med.href }">medium</a><xsl:text>, or </xsl:text><a href="{ $video-low.href }">low </a>
    <xsl:text>resolution. </xsl:text><a href="{ $zoom.href }">Zoom</a><xsl:text> a full-sized image
    or download for </xsl:text>
    <a href="{ $powerpointImage }" target="_blank">powerpoint</a><xsl:text>, or </xsl:text>
    <a href="{ $webImage }" target="_blank" >web</a><xsl:text>.</xsl:text>
  </xsl:when>
  <xsl:otherwise>
    <xsl:text>Download a </xsl:text>
    <a href="{ $powerpointImage }" target="_blank">powerpoint</a><xsl:text> or </xsl:text>
    <a href="{ $webImage }" target="_blank" >web</a><xsl:text> image, or </xsl:text>
    <a href="{ $zoom.href }">zoom</a><xsl:text> a full-sized image.</xsl:text>
  </xsl:otherwise>
</xsl:choose>
```

Video display options within the root template

The root template now contains instructions for dealing with requests to view high-, medium- and low-resolution video files.

```
<xsl:template match="/">
  <xsl:choose>
    <!-- robot solution -->
    <xsl:when test="matches($http.user-agent,$robots)">
      <xsl:call-template name="robot"/>
    </xsl:when>
    <xsl:when test="$doc.view='bbar'">
      <xsl:call-template name="bbar"/>
    </xsl:when>
    <xsl:when test="$doc.view='citation'">
      <xsl:call-template name="citation"/>
    </xsl:when>
    <xsl:when test="$doc.view='zoom'">
      <xsl:call-template name="zoom"/>
    </xsl:when>
    <xsl:when test="$doc.view='video-high'">
      <xsl:call-template name="video">
        <xsl:with-param name="flashVideo" select="concat($highVideoPath,$scaRecordNumber,'.swf')"/></xsl:with-param>
        <xsl:with-param name="width" select="673"/></xsl:with-param>
        <xsl:with-param name="height" select="598"/></xsl:with-param>
      </xsl:call-template>
    </xsl:when>
    <xsl:when test="$doc.view='video-med'">
      <xsl:call-template name="video">
        <xsl:with-param name="flashVideo" select="concat($medVideoPath,$scaRecordNumber,'.swf')"/></xsl:with-param>
        <xsl:with-param name="width" select="673"/></xsl:with-param>
        <xsl:with-param name="height" select="598"/></xsl:with-param>
      </xsl:call-template>
    </xsl:when>
    <xsl:when test="$doc.view='video-low'">
      <xsl:call-template name="video">
        <xsl:with-param name="flashVideo" select="concat($lowVideoPath,$scaRecordNumber,'.swf')"/></xsl:with-param>
        <xsl:with-param name="width" select="450"/></xsl:with-param>
        <xsl:with-param name="height" select="262"/></xsl:with-param>
      </xsl:call-template>
    </xsl:when>
    <xsl:when test="$doc.view='print'">
      <xsl:call-template name="print"/>
    </xsl:when>
    <xsl:otherwise>
      <xsl:call-template name="full_record"/>
    </xsl:otherwise>
  </xsl:choose>
</xsl:template>
```

Video template

The video template includes parameters specifying the path to the video file, and player dimensions. This information is passed by the calling template.

```

<!-- ===== -->
<!-- Video template -->
<!-- ===== -->
<xsl:template name="video">
  <xsl:param name="flashVideo"></xsl:param>
  <xsl:param name="width"></xsl:param>
  <xsl:param name="height"></xsl:param>

  <html xml:lang="en" lang="en">
    <head>
      <title>SCA Archive images: Full record with video</title>
      <meta http-equiv="Content-Type" content="text/html; charset=UTF-8"/>
      <xsl:copy-of select="$brand.links"/>
      <!-- AJAX support -->
      <script src="script/yui/yahoo-dom-event.js" type="text/javascript"/>
      <script src="script/yui/connection-min.js" type="text/javascript"/>
      <link rel="stylesheet" type="text/css" href="{ $css.path } { $content.css }"/>
    </head>
  </html>

```

These parameters are used within the section of the video template responsible for setting up the Flash player

```

<object classid="clsid:D27CDB6E-AE6D-11cf-96B8-444553540000" width="{ $width }"
  height="{ $height }" id="FlashID" title="SCA Video">
  <param name="movie" value="{ $flashVideo }"/>
  <param name="quality" value="high"/>
  <param name="wmode" value="opaque"/>
  <param name="swfversion" value="8.0.35.0"/>
  <!-- This param tag prompts users with Flash Player 6.0 r65 and higher to download the latest
    version of Flash Player. Delete it if you don't want users to see the prompt. -->
  <param name="expressinstall" value="{ $flashExpressInstall }"/>
  <!-- Next object tag is for non-IE browsers. So hide it from IE using IECC. -->
  <!--[if !IE]-->
  <object type="application/x-shockwave-flash" data="{ $flashVideo }"
    width="{ $width }" height="{ $height }">
    <!--<![endif]-->
    <param name="quality" value="high"/>
    <param name="wmode" value="opaque"/>
    <param name="swfversion" value="8.0.35.0"/>
    <param name="expressinstall" value="{ $flashExpressInstall }"/>
    <!-- The browser displays the following alternative content for users with Flash Player 6.0 and older. -->
    <div>
      <h4>Content on this page requires a newer version of Adobe Flash
        Player.</h4>
      <p>
        <a href="http://www.adobe.com/go/getflashplayer">
          
          </a>
        </p>
    </div>
    <!--[if !IE]-->
  </object>
  <!--<![endif]-->
</object>

```

Screenshot: Full record with video hyperlinks


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Sydney College of the Arts Archive Images

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[Citation](#) | [Print View](#)

Full record

Play video at high, medium, or low resolution. Zoom a full-sized image or download for powerpoint, or web.



Artist	Farhat, Chimene
Title	Untitled
Date	2007
Classification	Film and Video
Culture	International - Australia - Contemporary
Collection	SCA Archive Exhibitions, Degree Shows, Sydney College of the Arts, 2007
Studio	Film and Digital Arts
Degree	Bachelor of Visual Arts -- BVA
Affiliation	Alumni
Copyright	Image created by permission of the copyright holder

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[Next... Displaying records formatted for printing](#)

Displaying records formatted for printing

`style/dynaXML/docFormatter/sca/scaDocFormatter.xsl`

Apart from removing branding and altering the metadata display to follow below the image, the template responsible for producing a print view is very similar to a [full record display](#). (For information about including branding and header/footer content, see [styling the site](#)).

Full record: Print view

Source: SCA Archive Images

http://localhost/xtf/view?docId=sca/records/SCA1149-1.xml;doc.view=full_record



Artist

Bader, Vilma

Title

Untitled

Date

2007

Classification

Painting

Culture

International - Australia - Contemporary

As shown in the screenshot, the print view layout includes the URL for the full record. The URL is produced by adding the following instruction to the print template.

```
<tr>
  <td><xsl:value-of select="$xtfURL"/>
    <xsl:value-of select="$dynaxmlPath"/>
    <xsl:text>?docId=</xsl:text>
    <xsl:value-of select="$docId"/>
    <xsl:text>;doc.view=full_record</xsl:text>
  </td>
</tr>
```

[Next... Sorting, browsing and facets](#)

Sorting, browsing and facets

Following on from previous steps it is at this stage possible (if [textIndexer](#) has been run), to search metadata and retrieve and display result sets rendered as brief records with accompanying thumbnail images. The thumbnails are clickable through to full records, and from full-record display other types of media are viewable (such as powerpoint and zoomable images and Flash video files).

Although in a [previous section](#) I identified metadata for use in facets, other steps are required to produce facets. For the SCA collection, this involves working with `preFilterCommon`, `queryParser`, `resultFormatterCommon`, and `resultFormatter`.

- [preFilterCommon](#)
- [queryParser](#)
- [resultFormatterCommon](#)
- [resultFormatter](#)

After making the changes described in the hyperlinked pages above, a typical search result page displays as follows.

|eXtensible Text Framework|
graphic

Browse by: All

Results: 558 Items

Sorted by: relevance

Citations (0)

[Modify Search](#) | [New Search](#)

Browse by Facet | [Title](#) | [Artist](#)

Page: [1](#) [2](#) [3](#) [4](#) [5](#) ... [Next](#)

<p>Classification</p> <ul style="list-style-type: none"> Ceramics (55) Ceramics - installations (15) Ceramics - objects (1) Ceramics - sculpture (23) Ceramics - vessels (16) <p>more</p> <p>Culture</p> <ul style="list-style-type: none"> International (558) International - Australia (547) International - Australia - Contemporary (505) International - Australia - Late 20th c (42) International - Canada (11) <p>more</p> <p>Subject</p> <ul style="list-style-type: none"> Painting (2) Printmedia (1) Vase Shapes (6) animals (1) crosses (1) <p>more</p> <p>Special_collection</p> <ul style="list-style-type: none"> Exhibitions_Degree Shows_Sydney College of the Arts_2006 (234) Exhibitions_Degree Shows_Sydney College of the Arts_2007 (177) Fine Arts Print catalogue (6) Fine Arts Painting catalogue (7) Media Arts_Film and Digital Arts catalogue (8) 	<table border="0" style="width: 100%; border-collapse: collapse;"> <tr> <td style="text-align: center; vertical-align: top; width: 5%; padding: 5px;">1</td> <td style="text-align: center; vertical-align: top; width: 20%; padding: 5px;"></td> <td style="padding: 5px;"> <p>Artist: Guy Jan 1963- Add</p> <p>Title: Figure</p> <p>Date: 1987</p> <p>Media: Coloured stains, under glaze, gold leaf on ceramic (hand-built)</p> <p>Similar Items: Find</p> </td> </tr> <tr> <td style="text-align: center; vertical-align: top; padding: 5px;">2</td> <td style="text-align: center; vertical-align: top; padding: 5px;"></td> <td style="padding: 5px;"> <p>Artist: Abraham Heidi Add</p> <p>Title: Untitled</p> <p>Date: 2007</p> <p>Similar Items: Find</p> </td> </tr> <tr> <td style="text-align: center; vertical-align: top; padding: 5px;">3</td> <td style="text-align: center; vertical-align: top; padding: 5px;"></td> <td style="padding: 5px;"> <p>Artist: Sanzeeda Ali Add</p> <p>Title: Untitled</p> <p>Date: 2007</p> <p>Similar Items: Find</p> </td> </tr> <tr> <td style="text-align: center; vertical-align: top; padding: 5px;">4</td> <td style="text-align: center; vertical-align: top; padding: 5px;"></td> <td style="padding: 5px;"> <p>Artist: Allen Sarah-Jane Add</p> <p>Title: Untitled</p> <p>Date: 2007</p> <p>Similar Items: Find</p> </td> </tr> <tr> <td style="text-align: center; vertical-align: top; padding: 5px;">5</td> <td style="text-align: center; vertical-align: top; padding: 5px;"></td> <td style="padding: 5px;"> <p>Artist: Avelane Luce Add</p> <p>Title: Untitled</p> <p>Date: 2007</p> <p>Similar Items: Find</p> </td> </tr> </table>	1		<p>Artist: Guy Jan 1963- Add</p> <p>Title: Figure</p> <p>Date: 1987</p> <p>Media: Coloured stains, under glaze, gold leaf on ceramic (hand-built)</p> <p>Similar Items: Find</p>	2		<p>Artist: Abraham Heidi Add</p> <p>Title: Untitled</p> <p>Date: 2007</p> <p>Similar Items: Find</p>	3		<p>Artist: Sanzeeda Ali Add</p> <p>Title: Untitled</p> <p>Date: 2007</p> <p>Similar Items: Find</p>	4		<p>Artist: Allen Sarah-Jane Add</p> <p>Title: Untitled</p> <p>Date: 2007</p> <p>Similar Items: Find</p>	5		<p>Artist: Avelane Luce Add</p> <p>Title: Untitled</p> <p>Date: 2007</p> <p>Similar Items: Find</p>
1		<p>Artist: Guy Jan 1963- Add</p> <p>Title: Figure</p> <p>Date: 1987</p> <p>Media: Coloured stains, under glaze, gold leaf on ceramic (hand-built)</p> <p>Similar Items: Find</p>														
2		<p>Artist: Abraham Heidi Add</p> <p>Title: Untitled</p> <p>Date: 2007</p> <p>Similar Items: Find</p>														
3		<p>Artist: Sanzeeda Ali Add</p> <p>Title: Untitled</p> <p>Date: 2007</p> <p>Similar Items: Find</p>														
4		<p>Artist: Allen Sarah-Jane Add</p> <p>Title: Untitled</p> <p>Date: 2007</p> <p>Similar Items: Find</p>														
5		<p>Artist: Avelane Luce Add</p> <p>Title: Untitled</p> <p>Date: 2007</p> <p>Similar Items: Find</p>														

In the above example, an underscore appears in the facet named *Special_collection*. Facet titles are defined in *scaPreFilter.xsl* (extract follows).

```

<!--facet special collection -->
<xsl:template name="get-sca-facet-special_collection">
  <xsl:choose>
    <xsl:when test="/sca_record/special_collections">
      <xsl:for-each select="/sca_record/special_collections/special_collection">
        <facet-special_collection xtf:meta="true" xtf:indexOnly="yes" xtf:tokenize="no">
          <xsl:value-of select="."/>
        </facet-special_collection>
      </xsl:for-each>
    </xsl:when>
  </xsl:choose>
</xsl:template>

```

Facet title display may be altered by overriding a template within *resultFormatterCommon.xsl*.

```

<!-- Default template to display the name of a facet. Override to specialize. -->
<xsl:template match="facet" mode="facetName" priority="-1">
  <xsl:variable name="rawName" select="replace(@field, '^facet-', '')"/>
  <xsl:value-of select="concat(upper-case(substring($rawName, 1, 1)), substring($rawName, 2))"/>
</xsl:template>

```

In this version of the template, an underscore is replaced by a single space.

```
<xsl:template match="facet" mode="facetName" priority="-1">
  <xsl:variable name="rawName" select="replace(@field, '^facet-', '')"/>
  <xsl:variable name="rawName1" select="replace($rawName, '_', ' ')/>
  <xsl:value-of select="concat(upper-case(substring($rawName1, 1, 1)), substring($rawName1, 2))"/>
</xsl:template>
```

Example results page showing the Special collection facet title without an underscore.

|eXtensible Text Framework|
graphic

Browse by: All

Results: 558 Items

Sorted by: relevance

Citations (0)

[Modify Search](#) | [New Search](#)

Browse by Facet | [Title](#) | [Artist](#)

Page: [1](#) [2](#) [3](#) [4](#) [5](#) ... [Next](#)

Classification

- [Ceramics](#) (55)
- [Ceramics - installations](#) (15)
- [Ceramics - objects](#) (1)
- [Ceramics - sculpture](#) (23)
- [Ceramics - vessels](#) (16)

[more](#)

Culture

- [International](#) (558)
- [International - Australia](#) (547)
- [International - Australia - Contemporary](#) (505)
- [International - Australia - Late 20th c](#) (42)
- [International - Canada](#) (11)

[more](#)

Subject

- [Painting](#) (2)
- [Printmedia](#) (1)
- [Vase Shapes](#) (6)
- [animals](#) (1)
- [crosses](#) (1)

[more](#)

Special collection

- [Exhibitions_Degree Shows_Sydney College of the Arts_2005](#) (234)
- [Exhibitions_Degree Shows_Sydney College of the Arts_2007](#) (177)
- [Fine Arts Print catalogue](#) (6)
- [Fine Arts Painting catalogue](#) (7)
- [Media Arts_Film and Digital Arts catalogue](#) (8)

1		<p>Artist: Guy Jan 1963: Add</p> <p>Title: Figure</p> <p>Date: 1987</p> <p>Media: Coloured stains, under glaze, gold leaf on ceramic (hand-built)</p> <p>Similar Items: Find</p>
2		<p>Artist: Abraham Heidi Add</p> <p>Title: Untitled</p> <p>Date: 2007</p> <p>Similar Items: Find</p>
3		<p>Artist: Sanzeeda Ali Add</p> <p>Title: Untitled</p> <p>Date: 2007</p> <p>Similar Items: Find</p>
4		<p>Artist: Allen Sarah-Jane Add</p> <p>Title: Untitled</p> <p>Date: 2007</p> <p>Similar Items: Find</p>
5		<p>Artist: Arellano Lupe Add</p> <p>Title: Untitled</p> <p>Date: 2007</p> <p>Similar Items: Find</p>

[Next... Sorting, browsing and facets: preFilterCommon](#)

Sorting, browsing and facets: preFilterCommon

style/textIndexer/common/preFilterCommon.xsl

- [Enabling facet, browse and sort fields](#)
- [Generating sorting](#)
- [Generating browsing](#)
- [Generating facets](#)

Enabling facet, browse and sort fields

The XTF SCA site includes sort options for title and artist (creator), browse-by options for facet, title and artist, and additional facets for classification, culture, degree, special collection, affiliation and studio. The default version of preFilterCommon.xsl contains a number of sort, facet and browse options setup for elements including title, creator, and date, and these can be copied and adapted to support other facets based on other elements.

Default sort, browse and facet options

```

<!-- Add sort fields to DC meta-data -->
<xsl:template name="add-fields">
  <xsl:param name="meta"/>
  <xsl:param name="display"/>

  <xtf:meta>
    <!-- Copy all the original fields -->
    <xsl:copy-of select="$meta/*"/>

    <!-- Add a field to record the document kind -->
    <display xtf:meta="true" xtf:tokenize="no">
      <xsl:value-of select="$display"/>
    </display>

    <!-- Parse the date field to create a year (or range of years) -->
    <xsl:apply-templates select="$meta/*[matches(local-name(),'^date$')]" mode="year"/>

    <!-- Create sort fields -->
    <xsl:apply-templates select="$meta/*[matches(local-name(),'^title$')][1]" mode="sort"/>
    <xsl:apply-templates select="$meta/*[matches(local-name(),'^creator$')][1]" mode="sort"/>
    <xsl:apply-templates select="$meta/*[matches(local-name(),'^date$')][1]" mode="sort"/>

    <!-- Create facets -->
    <xsl:apply-templates select="$meta/*[matches(local-name(),'^date$')]" mode="facet"/>
    <xsl:apply-templates select="$meta/*[matches(local-name(),'^subject$')]" mode="facet"/>

    <xsl:apply-templates select="$meta/*[matches(local-name(),'^title$')][1]" mode="browse"/>
    <xsl:apply-templates select="$meta/*[matches(local-name(),'^creator$')][1]" mode="browse"/>

  </xtf:meta>
</xsl:template>

```

SCA sort, browse and facet options

```

<xtf:meta>
  <!-- Copy all the original fields -->
  <xsl:copy-of select="$meta/*"/>

  <!-- Add a field to record the document kind -->
  <display xtf:meta="true" xtf:tokenize="no">
    <xsl:value-of select="$display"/>
  </display>

  <!-- Parse the date field to create a year (or range of years) -->
  <xsl:apply-templates select="$meta/*[matches(local-name(),'^date$')]" mode="year"/>

  <!-- Create sort fields -->
  <xsl:apply-templates select="$meta/*[matches(local-name(),'^title$')][1]" mode="sort"/>
  <xsl:apply-templates select="$meta/*[matches(local-name(),'^creator$')][1]" mode="sort"/>
  <xsl:apply-templates select="$meta/*[matches(local-name(),'^date$')][1]" mode="sort"/>

  <!-- Create facets -->
  <xsl:apply-templates select="$meta/*[matches(local-name(),'^date$')]" mode="facet"/>
  <xsl:apply-templates select="$meta/*[matches(local-name(),'^subject$')]" mode="facet"/>

  <!-- Additional SCA facets -->
  <xsl:apply-templates select="$meta/*[matches(local-name(),'^classification$')]" mode="facet"/>
  <xsl:apply-templates select="$meta/*[matches(local-name(),'^culture$')]" mode="facet"/>
  <xsl:apply-templates select="$meta/*[matches(local-name(),'^degree$')]" mode="facet"/>
  <xsl:apply-templates select="$meta/*[matches(local-name(),'^special_collection$')]" mode="facet"/>
  <xsl:apply-templates select="$meta/*[matches(local-name(),'^affiliation$')]" mode="facet"/>
  <xsl:apply-templates select="$meta/*[matches(local-name(),'^studio$')]" mode="facet"/>

  <xsl:apply-templates select="$meta/*[matches(local-name(),'^title$')][1]" mode="browse"/>
  <xsl:apply-templates select="$meta/*[matches(local-name(),'^creator$')][1]" mode="browse"/>

</xtf:meta>

```

Generating sorting

Each sort option must be generated. The SCA collection sorts on title and creator (artist). The default preFilterCommon.xsl provides examples which may be copied and modified to enable sorting on other fields.

```
<!-- Generate sort-title -->
<xsl:template match="*[matches(local-name(),'^title$')]" mode="sort">
  <sort-title xtf:meta="yes" xtf:tokenize="no">
    <xsl:value-of select="parse:title(string())"/>
  </sort-title>
</xsl:template>

<!-- Generate sort-creator -->
<xsl:template match="*[matches(local-name(),'^creator$')]" mode="sort">
  <sort-creator xtf:meta="yes" xtf:tokenize="no">
    <xsl:copy-of select="parse:name(string())"/>
  </sort-creator>
</xsl:template>
```

In the extract above, parsing instructions for title and creator are different as they are processed quite differently.

Generating browsing

Each browse option must be generated. The SCA collection supports browsing on title and artist (creator). Examples available in the default preFilterCommon.xsl are adaptable to suit other fields.

```
<!-- Generate browse-title -->
<xsl:template match="*[matches(local-name(),'^title$')]" mode="browse">
  <browse-title>
    <xsl:attribute name="xtf:meta" select="'true'"/>
    <xsl:attribute name="xtf:tokenize" select="'no'"/>
    <xsl:value-of select="parse:alpha(parse:title())"/>
  </browse-title>
</xsl:template>

<!-- Generate browse-creator -->
<xsl:template match="*[matches(local-name(),'^creator$')]" mode="browse">
  <browse-creator>
    <xsl:attribute name="xtf:meta" select="'true'"/>
    <xsl:attribute name="xtf:tokenize" select="'no'"/>
    <xsl:value-of select="parse:alpha(parse:name())"/>
  </browse-creator>
</xsl:template>
```

As with sorting, the parsing instructions are different for names and titles.

Generating facets

Each facet option must be generated. The following screen image shows facets for subject, classification, culture, degree and affiliation. Although most are specific to SCA, they are based on examples provided within the stylesheet.

```

<!-- Generate facet-subject -->
<xsl:template match="*[matches(local-name(),'^subject$')]" mode="facet">
  <facet-subject>
    <xsl:attribute name="xtf:meta" select="'true'"/>
    <xsl:attribute name="xtf:facet" select="'yes'"/>
    <xsl:value-of select="string(.)"/>
  </facet-subject>
</xsl:template>

<!-- Generate facet-classification -->
<xsl:template match="*[matches(local-name(),'^classification$')]" mode="facet">
  <facet-classification>
    <xsl:attribute name="xtf:meta" select="'true'"/>
    <xsl:attribute name="xtf:facet" select="'yes'"/>
    <xsl:value-of select="string(.)"/>
  </facet-classification>
</xsl:template>

<!-- Generate facet-culture -->
<xsl:template match="*[matches(local-name(),'^culture$')]" mode="facet">
  <facet-culture>
    <xsl:attribute name="xtf:meta" select="'true'"/>
    <xsl:attribute name="xtf:facet" select="'yes'"/>
    <xsl:value-of select="string(.)"/>
  </facet-culture>
</xsl:template>

<!-- Generate facet-degree -->
<xsl:template match="*[matches(local-name(),'^degree$')]" mode="facet">
  <facet-degree>
    <xsl:attribute name="xtf:meta" select="'true'"/>
    <xsl:attribute name="xtf:facet" select="'yes'"/>
    <xsl:value-of select="string(.)"/>
  </facet-degree>
</xsl:template>

<!-- Generate facet-affiliation -->
<xsl:template match="*[matches(local-name(),'^affiliation$')]" mode="facet">
  <facet-affiliation>
    <xsl:attribute name="xtf:meta" select="'true'"/>
    <xsl:attribute name="xtf:facet" select="'yes'"/>
    <xsl:value-of select="string(.)"/>
  </facet-affiliation>
</xsl:template>

```

[Next... Sorting, browsing and facets: queryParser](#)

Sorting, browsing and facets: queryParser

style/crossQuery/queryParser/default/queryParser.xsl

- [Sorting](#)
- [Browsing](#)
- [Facets](#)

Sorting

The default queryParser sorts by title, year, reverse year, creator and publisher. The SCA collection is sortable by creator (artist) and title, so the other options are removed, as illustrated below.

Default sort attribute

```

<!-- =====>
<!-- Root Template -->
<!-- =====>

<xsl:template match="/">

  <xsl:variable name="stylesheet" select="'style/crossQuery/resultFormatter/default/resultFormatter.xsl'"/>

  <!-- The top-level query element tells what stylesheet will be used to
  format the results, which document to start on, and how many documents
  to display on this page. -->
  <query indexPath="index" termLimit="1000" workLimit="1000000" style="{stylesheet}" startDoc="{SstartDoc}" maxDocs="{DocsPerPage}">

    <!-- sort attribute -->
    <xsl:if test="$sort">
      <xsl:attribute name="sortMetaFields">
        <xsl:choose>
          <xsl:when test="$sort='title'">
            <xsl:value-of select="'sort-title,sort-creator,sort-publisher,sort-year'"/>
          </xsl:when>
          <xsl:when test="$sort='year'">
            <xsl:value-of select="'sort-year,sort-title,sort-creator,sort-publisher'"/>
          </xsl:when>
          <xsl:when test="$sort='reverse-year'">
            <xsl:value-of select="'-sort-year,sort-title,sort-creator,sort-publisher'"/>
          </xsl:when>
          <xsl:when test="$sort='creator'">
            <xsl:value-of select="'sort-creator,sort-year,sort-title'"/>
          </xsl:when>
          <xsl:when test="$sort='publisher'">
            <xsl:value-of select="'sort-publisher,sort-title,sort-year'"/>
          </xsl:when>
        </xsl:choose>
      </xsl:attribute>
    </xsl:if>
  </query>
</template>

```

Modified sort attribute

```

<!-- sort attribute -->
<xsl:if test="$sort">
  <xsl:attribute name="sortMetaFields">
    <xsl:choose>
      <xsl:when test="$sort='title'">
        <xsl:value-of select="'sort-title,sort-creator'"/>
      </xsl:when>
      <xsl:when test="$sort='creator'">
        <xsl:value-of select="'sort-creator,sort-title'"/>
      </xsl:when>
    </xsl:choose>
  </xsl:attribute>
</xsl:if>

```

Browsing

By default, queryParser is configured to support browsing by title and creator, and this meets the needs of the SCA collection. For XTF 2.1.1, an alteration to the default stylesheet is required to enable alphabetic sorting within browse sets. queryParser correctly sorts alphabetic divisions. All of the titles starting with *A* are gathered within an *A* group, and they are all displayed prior to those beginning with *B* (which are similarly correctly grouped within a *B* division). The default browse does not however include an instruction to ensure correct sorting within each of these divisions. The sequence of displayed titles within an alphabetic division corresponds to the order in which the XML records are indexed. A solution (provided via the [XTF users list](#)), is illustrated below.

Default browsing

```

<!-- to support title browse pages -->
<xsl:if test="//param[@name='browse-title']">
  <xsl:variable name="page" select="//param[@name='browse-title']/@value"/>
  <xsl:variable name="pageSel" select="if ($page = 'first') then '*[1]' else $page"/>
  <facet field="browse-title" sortGroupsBy="value" select="{concat('*|', $pageSel, '#all')}" />
</xsl:if>

<!-- to support author browse pages -->
<xsl:if test="//param[matches(@name, 'browse-creator')] ">
  <xsl:variable name="page" select="//param[matches(@name, 'browse-creator')] /@value"/>
  <xsl:variable name="pageSel" select="if ($page = 'first') then '*[1]' else $page"/>
  <facet field="browse-creator" sortGroupsBy="value" select="{concat('*|', $pageSel, '#all')}" />
</xsl:if>

```

Modified browsing

```

<!-- SCA browse pages-->

<!-- to support title browse pages -->
<xsl:if test="//param[@name='browse-title']">
  <xsl:variable name="page" select="//param[@name='browse-title']/@value"/>
  <xsl:variable name="pageSel" select="if ($page = 'first') then '*[1]' else $page"/>
  <!-- Added instruction for sorting browsable docs by title - as per discussion list -->
  <facet field="browse-title" sortGroupsBy="value" sortDocsBy="sort-title,sort-creator" select="{concat('*|', $pageSel, '#all')}" />
</xsl:if>

<!-- to support creator browse pages -->
<xsl:if test="//param[matches(@name, 'browse-creator')] ">
  <xsl:variable name="page" select="//param[matches(@name, 'browse-creator')] /@value"/>
  <xsl:variable name="pageSel" select="if ($page = 'first') then '*[1]' else $page"/>
  <!-- Added instruction for sorting browsable docs by creator - as per discussion list -->
  <facet field="browse-creator" sortGroupsBy="value" sortDocsBy="sort-creator,sort-title" select="{concat('*|', $pageSel, '#all')}" />
</xsl:if>

```

Facets

queryParser includes options for configuring how facets will be grouped at the time of page display. In the following example, I specify that no more than the first five facets in each category will display, and that they be alphabetically ordered (i.e. sorted by *value*).

```

<!-- SCA facets begin here -->

<xsl:call-template name="facet">
  <xsl:with-param name="field" select="'facet-classification'"/>
  <xsl:with-param name="topGroups" select="'*[1-5]'" />
  <xsl:with-param name="sort" select="'value'"/>
</xsl:call-template>

<xsl:call-template name="facet">
  <xsl:with-param name="field" select="'facet-creator'"/>
  <xsl:with-param name="topGroups" select="'*[1-5]'" />
  <xsl:with-param name="sort" select="'value'"/>
</xsl:call-template>

<xsl:call-template name="facet">
  <xsl:with-param name="field" select="'facet-culture'"/>
  <xsl:with-param name="topGroups" select="'*[1-5]'" />
  <xsl:with-param name="sort" select="'value'"/>
</xsl:call-template>

```

In a [previous section](#) I describe how to identify metadata for faceted browsing by XTF and the associated steps involved in [generating](#) facets.

[Next... Sorting, browsing and facets: resultFormatterCommon](#)

Sorting, browsing and facets: resultFormatterCommon

style/crossQuery/resultFormatter/common/resultFormatterCommon.xsl

- [Metadata parameters](#)
- [Alpha browse parameters](#)
- [Sort options template](#)
- [Alpha list template](#)

Metadata parameters

Within the parameters section, I include entries for SCA metadata elements, using the same format provided for Dublin Core elements.

SCA metadata element parameters (extract)

```
<!-- Additional sca metadata elements -->
.....
<xsl:param name="index_title"/>
<xsl:param name="index_title-join"/>
<xsl:param name="index_title-prox"/>
<xsl:param name="index_title-exclude"/>
<xsl:param name="index_title-max"/>

<xsl:param name="name_variant"/>
<xsl:param name="name_variant-join"/>
<xsl:param name="name_variant-prox"/>
<xsl:param name="name_variant-exclude"/>
<xsl:param name="name_variant-max"/>

<xsl:param name="classification"/>
<xsl:param name="classification-join"/>
<xsl:param name="classification-prox"/>
<xsl:param name="classification-exclude"/>
<xsl:param name="classification-max"/>

<xsl:param name="culture"/>
<xsl:param name="culture-join"/>
<xsl:param name="culture-prox"/>
<xsl:param name="culture-exclude"/>
<xsl:param name="culture-max"/>
```

Alpha browse parameters

Within the alpha browse parameters section, there are already entries for *all*, *title* and *creator*. No additional browse options are needed for the SCA collection.

```

<!-- alpha browse parameters -->
<xsl:param name="browse-all" />
<xsl:param name="browse-title" />
<xsl:param name="browse-creator" />

```

Sort options template

The *sort options* template controls display of the drop-down sort options which may be applied to retrieved records. SCA sorts on relevance, title and artist (which are available in the default stylesheet), so I remove the other options.

Default sort options template

```

<!-- =====>
<!-- Sort Options -->
<!-- =====>

<xsl:template name="sort.options">
  <select size="1" name="sort">
    <xsl:choose>
      <xsl:when test="$smode='showBag'">
        <xsl:choose>
          <xsl:when test="$sort = ''">
            <option value="title" selected="selected">title</option>
            <option value="creator">author</option>
            <option value="year">publication date</option>
            <option value="reverse-year">reverse date</option>
          </xsl:when>
          <xsl:when test="$sort = 'title'">
            <option value="title" selected="selected">title</option>
            <option value="creator">author</option>
            <option value="year">publication date</option>
            <option value="reverse-year">reverse date</option>
          </xsl:when>
          <xsl:when test="$sort = 'creator'">
            <option value="title">title</option>
            <option value="creator" selected="selected">author</option>
            <option value="year">publication date</option>
            <option value="reverse-year">reverse date</option>
          </xsl:when>
          <xsl:when test="$sort = 'year'">
            <option value="title">title</option>
            <option value="creator">author</option>
            <option value="year" selected="selected">publication date</option>
            <option value="reverse-year">reverse date</option>
          </xsl:when>
          <xsl:when test="$sort = 'reverse-year'">
            <option value="title">title</option>
            <option value="creator">author</option>
            <option value="year">publication date</option>
            <option value="reverse-year" selected="selected">reverse date</option>
          </xsl:when>
        </xsl:choose>
      </xsl:when>
    </xsl:choose>
  </select>

```

Modified sort options template

```

<!-- =====>
<!-- Sort Options -->
<!-- =====>

<xsl:template name="sort.options">
  <select size="1" name="sort">
    <xsl:choose>
      <xsl:when test="$smode='showBag'">
        <xsl:choose>
          <xsl:when test="$sort = ''">
            <option value="title" selected="selected">title</option>
            <option value="creator">artist</option>
          </xsl:when>
          <xsl:when test="$sort = 'title'">
            <option value="title" selected="selected">title</option>
            <option value="creator">artist</option>
          </xsl:when>
          <xsl:when test="$sort = 'creator'">
            <option value="title">title</option>
            <option value="creator" selected="selected">artist</option>
          </xsl:when>
        </xsl:choose>
      </xsl:when>
      <xsl:otherwise>
        <xsl:choose>
          <xsl:when test="$sort = ''">
            <option value="" selected="selected">relevance</option>
            <option value="title">title</option>
            <option value="creator">artist</option>
          </xsl:when>
          <xsl:when test="$sort = 'title'">
            <option value="">relevance</option>
            <option value="title" selected="selected">title</option>
            <option value="creator">artist</option>
          </xsl:when>
          <xsl:when test="$sort = 'creator'">
            <option value="">relevance</option>
            <option value="title">title</option>
            <option value="creator" selected="selected">artist</option>
          </xsl:when>
        </xsl:choose>
      </xsl:otherwise>
    </xsl:choose>
  </select>
</xsl:template>

```

Alpha list template

Within the alphaList template, there are already *browse-name* and *browse-value* options for title and creator (artist). This suits the SCA collection.

```
<!-- ===== -->
<!-- Alpha List Builder -->
<!-- ===== -->

<xsl:template name="alphaList">

  <xsl:param name="alphaList"/>

  <xsl:variable name="browse-name">
    <xsl:choose>
      <xsl:when test="$browse-creator">
        <xsl:value-of select="'creator'"/>
      </xsl:when>
      <xsl:when test="$browse-title">
        <xsl:value-of select="'title'"/>
      </xsl:when>
    </xsl:choose>
  </xsl:variable>

  <xsl:variable name="browse-value">
    <xsl:choose>
      <xsl:when test="$browse-creator">
        <xsl:value-of select="$browse-creator"/>
      </xsl:when>
      <xsl:when test="$browse-title">
        <xsl:value-of select="$browse-title"/>
      </xsl:when>
    </xsl:choose>
  </xsl:variable>


```

[Next... Sorting, browsing and facets: resultFormatter](#)

Sorting, browsing and facets: resultFormatter

[style/crossQuery/resultFormatter/default/resultFormatter.xsl](#)

In an [earlier section](#) I describe changes to resultFormatter to enable display of brief records with accompanying clickable thumbnail images. The current section covers browsing by facets.

In the SCA example, very few changes are needed, as the required sort and browse options are catered for by the default version of resultFormatter. The examples are however readily adaptable for other cases. (Within a plant sciences image collection named [eBot](#), I configured browse and sort options for title, creator, family, genus and species).

- [Root template](#)
- [Browse template](#)
- [Browse links template](#)
- [Results template](#)

Root template

Within the *root* template, there are options to \$browse-title and \$browse-creator

```

<!-- browse pages -->
<xsl:when test="$browse-title or $browse-creator">
  <xsl:apply-templates select="crossQueryResult" mode="browse"/>
</xsl:when>

```

Browse template

Within the *browse by* section of the *browse template*, there are entries for \$browse-title and \$browse-creator

```

<td>
  <b>Browse by:&#160;</b>
  <xsl:choose>
    <xsl:when test="$browse-title">Title</xsl:when>
    <xsl:when test="$browse-creator">Artist</xsl:when>
    <xsl:otherwise>All Items</xsl:otherwise>
  </xsl:choose>
</td>

```

Within the *results* section of the *browse template*, there are entries for browse-title and browse-creator

```

<!-- results -->
<div class="results">
  <table>
    <tr>
      <td>
        <xsl:choose>
          <xsl:when test="$browse-title">
            <xsl:apply-templates select="facet[@field='browse-title']/group/docHit"/>
          </xsl:when>
          <xsl:otherwise>
            <xsl:apply-templates select="facet[@field='browse-creator']/group/docHit"/>
          </xsl:otherwise>
        </xsl:choose>
      </td>
    </tr>
  </table>
</div>

```

Browse links template

Within the *browseLinks* template, there are entries for browse-title and browse-creator. The only change involves altering display text to read *Artist* rather than *Author*.

```

<xsl:template name="browseLinks">
  <xsl:choose>
    <xsl:when test="$browse-all">
      <xsl:text>Facet | </xsl:text>
      <a href="{ $xtfURL } { $crossqueryPath } ?browse-title=first;sort=title">Title</a>
      <xsl:text> | </xsl:text>
      <a href="{ $xtfURL } { $crossqueryPath } ?browse-creator=first;sort=creator">Artist</a>
    </xsl:when>
    <xsl:when test="$browse-title">
      <a href="{ $xtfURL } { $crossqueryPath } ?browse-all=yes">Facet</a>
      <xsl:text> | Title | </xsl:text>
      <a href="{ $xtfURL } { $crossqueryPath } ?browse-creator=first;sort=creator">Artist</a>
    </xsl:when>
    <xsl:when test="$browse-creator">
      <a href="{ $xtfURL } { $crossqueryPath } ?browse-all=yes">Facet</a>
      <xsl:text> | </xsl:text>
      <a href="{ $xtfURL } { $crossqueryPath } ?browse-title=first;sort=title">Title</a>
      <xsl:text> | Author</xsl:text>
    </xsl:when>
    <xsl:otherwise>
      <a href="{ $xtfURL } { $crossqueryPath } ?browse-all=yes">Facet</a>
      <xsl:text> | </xsl:text>
      <a href="{ $xtfURL } { $crossqueryPath } ?browse-title=first;sort=title">Title</a>
      <xsl:text> | </xsl:text>
      <a href="{ $xtfURL } { $crossqueryPath } ?browse-creator=first;sort=creator">Artist</a>
    </xsl:otherwise>
  </xsl:choose>
</xsl:template>

```

Results template

The results section of the results template lists the facets which will display. (Configuration and generation of facets is handled [elsewhere](#))

```

<!-- results -->
<xsl:choose>
  <xsl:when test="docHit">
    <div class="results">
      <table>
        <tr>
          <xsl:if test="not($smode='showBag')">
            <td class="facet">
              <!-- SCA facets -->
              <xsl:apply-templates select="facet[@field='facet-classification']"/>
              <xsl:apply-templates select="facet[@field='facet-culture']"/>
              <xsl:apply-templates select="facet[@field='facet-subject']"/>
              <xsl:apply-templates select="facet[@field='facet-special_collection']"/>
              <xsl:apply-templates select="facet[@field='facet-degree']"/>
              <xsl:apply-templates select="facet[@field='facet-studio']"/>
              <xsl:apply-templates select="facet[@field='facet-affiliation']"/>
            </td>
          </xsl:if>
          <td class="docHit">
            <xsl:apply-templates select="docHit"/>
          </td>
        </tr>
      </table>
    </div>
  </xsl:when>
</xsl:choose>

```

[Next... Hierarchical facets](#)

Hierarchical facets

[Hierarchical facets](#) provide a means for expressing nested relationships within classification schemes and taxonomies and enable people to browse a taxonomic pathway through a collection. They also provide a way to efficiently use screen-space, as illustrated in the screenshots below. This is particularly the case with the eBot plant sciences collection which is underpinned by a deep taxonomy.

- [Expressing hierarchical relationships](#)
- [Extract from an SCA XML record showing hierarchical facet notation](#)
- [Screenshots: SCA Archive, top-, first- second- and third-level facet navigation](#)
- [Screenshot: Fish-bone image collection, top level taxonomy facet](#)
- [Screenshot: eBot plant sciences collection, expanded taxonomy pathway](#)

**Screenshots on this page were taken following [site styling](#).

Expressing hierarchical relationships

Apart from the steps outlined in the [previous section](#), XTF needs to be provided with an expression of the relationships between the various levels within the hierarchical structure. Relationships are indicated using ‘::’ notation, (as explained in the [XTF documentation](#) on the subject).

Extract from an SCA XML record showing hierarchical facet notation

I followed the example provided in [exercise 8](#) of Martin Haye's tutorial. As part of the pre-processing of metadata (not covered in this discussion), I use Python scripting to create an additional metadata field in each record.

```
<classifications>
  <classification>Ceramics</classification>
  <classification>Ceramics - vessels</classification>
  <classification>Ceramics - vessels - sculptural</classification>
</classifications>
<classification_hierarchy>Ceramics::vessels::sculptural</classification_hierarchy>
<cultures>
  <culture>International</culture>
  <culture>International - Australia</culture>
  <culture>International - Australia - Late 20th c</culture>
</cultures>
<culture_hierarchy>International::Australia::Late 20th c</culture_hierarchy>
```

Screenshots: SCA archive, top-, first-, second- and third-level facet navigation

Top level classification facet.


The University of Sydney
Sydney College of the Arts Archive Images

[University Home](#) | [SCA Images Online](#) | [Library](#) | [Collection Home](#) | [About](#) | [Contact](#)

Browse by: All
Citations (0)

Results: 834 Items
[Modify Search](#) | [New Search](#)

Sorted by:
[Browse by Facet](#) | [Title](#) | [Artist](#)

Page: 1 2 3 4 5 ... Next

Classification

- Animation (2)
- ▣ Ceramics (137)
- Collage (1)
- ▣ Drawings (10)
- ▣ Film and Video (96)
- ▣ Glass (50)
- ▣ Installation (16)
- ▣ Jewellery (57)
- ▣ Object (8)
- Other (2)
- ▣ Painting (159)
- Performance (5)
- ▣ Photography (111)
- ▣ Print (100)
- ▣ Sculpture (80)

Culture

- ▣ International (834)

Subject

- Painting (2)
- Printmedia (1)
- Vase Shapes (6)
- animals (1)
- boats (7)

[more](#)

1		<p>Artist: Guy, Jan 1963- Add</p> <p>Title: Figure</p> <p>Date: 1987</p> <p>Media: Coloured stains, under glaze, gold leaf on ceramic (hand-built)</p> <p>Studio: Ceramics</p> <p>Similar Items: Find</p>
2		<p>Artist: Abraham, Heidi Add</p> <p>Title: Untitled</p> <p>Date: 2007</p> <p>Studio: Sculpture, Performance and Installation</p> <p>Similar Items: Find</p>

First level


The University of Sydney
Sydney College of the Arts Archive Images

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Search: Jewellery in classification [X]
Citations (0)

Results: 57 Items
[Modify Search](#) | [New Search](#)

Sorted by:
[Browse by Facet](#) | [Title](#) | [Artist](#)

Page: 1 2 3 Next

Classification

- ▣ Jewellery
 - ▣ brooches (5)
 - ▣ neckpieces (3)
 - objects (3)
 - other (4)
 - performance(1)

Culture

- ▣ International (57)

Subject

- fashion (1)
- flowers (1)
- insects (1)
- organic forms (1)
- text (1)

Special collection

- Exhibitions, Degree Shows, Sydney College of the Arts, 2006 (21)
- Exhibitions, Degree Shows, Sydney College of the Arts, 2007 (14)
- Exhibitions, Degree Shows, Sydney College of the Arts, 2008 (17)
- SCA Archive (57)

1		<p>Artist: Arnold, Luke-John Matthew Add</p> <p>Title: Untitled</p> <p>Date: 2007</p> <p>Studio: Jewellery and Object</p> <p>Similar Items: Find</p>
2		<p>Artist: Barrett, Andea Kannon Add</p> <p>Title: Untitled</p> <p>Date: 2007</p> <p>Studio: Jewellery and Object</p> <p>Similar Items: Find</p>

Second level


The University of Sydney
Sydney College of the Arts Archive Images

University Home
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Search: Jewellery::brooches in classification [X]
Citations (0)

Results: 5 Items
Modify Search | New Search

Sorted by: relevance [v] Go!
Browse by Facet | Title | Artist

Page: 1

Classification

- ▣ Jewellery
 - ▣ brooches
 - ▣ pins(1)

Culture

- ▣ International (5)

Subject

- ▣ flowers (1)
- ▣ organic forms (1)

Special collection

- ▣ Exhibitions, Degree Shows, Sydney College of the Arts, 2008 (1)
- ▣ SCA Archive (5)

Degree

- ▣ Bachelor of Visual Arts -- BVA (1)

Studio

- ▣ Jewellery and Object (5)

Affiliation

- ▣ staff member - current (4)
- ▣ students - graduating (1)

1		<p>Artist: Findeis, Kann Add</p> <p>Title: Hexas brucia (Clovelly)</p> <p>Date: 2007</p> <p>Media: 925 silver, paint, coral, moonstone, onyx</p> <p>Studio: Jewellery and Object</p> <p>Similar Items: Find</p>
2		<p>Artist: Findeis, Karin Add</p> <p>Title: Venae</p> <p>Date: 2005</p> <p>Media: 925 silver, enamel paint, wool felt, dyed shell</p> <p>Studio: Jewellery and Object</p> <p>Similar Items: Find</p>

Third level


The University of Sydney
Sydney College of the Arts Archive Images

University Home
SCA Images Online
Library
Collection Home
About
Contact

Search: Jewellery::brooches::pins in classification [X]
Citations (0)

Results: 1 Item
Modify Search | New Search

Sorted by: relevance [v] Go!
Browse by Facet | Title | Artist

Page: 1

Classification

- ▣ Jewellery
 - ▣ brooches
 - ▣ pins [X]

Culture

- ▣ International (1)

Subject

Special collection

- ▣ Exhibitions, Degree Shows, Sydney College of the Arts, 2008 (1)
- ▣ SCA Archive (1)

Degree

- ▣ Bachelor of Visual Arts -- BVA (1)

Studio

- ▣ Jewellery and Object (1)

Affiliation

- ▣ students - graduating (1)

1		<p>Artist: Eggert, Berri Add</p> <p>Title: Untitled</p> <p>Date: 2008</p> <p>Studio: Jewellery and Object</p> <p>Similar Items: Find</p>
----------	---	--

Presentation of this collection is an initiative of the University of Sydney Library in partnership with Jacqui Spedding, Project Manager for Sydney College of the Arts Images Online. Digital objects and metadata provided by Jacqui Spedding. Site created by Rowan Brownlee, Digital Project Analyst, University of Sydney Library, using the eXtensible Text Framework (XTF).

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Screenshot: Fish-bone image collection, top-level taxonomy facet


The University of Sydney
Archaeological fish-bone images

University Home | Library | Collection Home | About | Contact
Citations (0)

Browse by: All
Modify Search | New Search

Results: 487 Items
Browse by Facet | Family | Genus | Species

Sorted by: relevance
Page: 1 2 3 4 5 ... Next

Taxonomy

- Anguillidae (22)
- Arripidae (8)
- Belonidae (7)
- Berycidae (15)
- Bothidae (33)
- Carangidae (47)
- Cyprinidae (8)
- Gempylidae (5)
- Hemiramphidae (14)
- Labridae (59)
- Monacanthidae (10)
- Mugilidae (24)
- Muraenidae (3)
- Platycephalidae (41)
- Pomatomidae (12)
- Sciaenidae (22)
- Scombridae (7)
- Serranidae (46)
- Sillaginidae (25)
- Sparidae (47)
- Sphyraenidae (8)
- Zeidae (24)

1



Image ID: 200001

Family: Belonidae

Genus: Tylosurus

Species: acus

Common name: Longtom

Collection: Department of Archaeology and Natural History, Research School of Pacific and Asian Studies, Australian National University, Canberra.

Similar Items: [Find](#)

[Add](#)

2



Image ID: 200002

Family: Zeidae

Genus: Cyttus

Species: australis

Common name: Silver Dory

Collection: Department of Archaeology and Natural History, Research School of Pacific and Asian Studies, Australian National University, Canberra.

Similar Items: [Find](#)

[Add](#)

Screenshot: eBot plant sciences collection, expanded taxonomy pathway

Example illustrating *partial* navigation of the higher level taxonomy of the eBot plant sciences collection.

[Next... Queries and search forms](#)

Queries and search forms

- [Defining a simple keyword search](#)
- [Defining search forms](#)
- [Altering example search text to reflect SCA subject matter](#)
- [Screenshot: Modified search page](#)

Defining a simple keyword search

style/crossQuery/queryParser/default/queryParser.xsl

XTF needs to know which fields to target for a simple keyword search. Field names are specified within a parameter.

```
<!-- ===== -->
<!-- Local Parameters -->
<!-- ===== -->

<!-- list of fields to search in 'keyword' search; generally these should
      be the same fields shown in the search result listing, so the user
      can see all the matching words. -->
<xsl:param name="fieldList" select="'title creator subject classification culture collection media description'"/>
```

Defining search forms

style/crossQuery/resultFormatter/default/searchForms.xsl

XTF's default user interface includes keyword, advanced, freeform and browse options. As Jacqui and I have not yet designed an advanced search, I remove it from display, along with the freeform option.

Search options for advanced and freeform are commented out.

```

<!-- ===== -->
<!-- Form Templates -->
<!-- ===== -->

<!-- main form page -->
<xsl:template match="crossQueryResult" mode="form" exclude-result-prefixes="#all">
  <html xmlns="http://www.w3.org/1999/xhtml" xml:lang="en" lang="en">
    <head>
      <title>SCA Images Archive: Search Form</title>
      <meta http-equiv="Content-Type" content="text/html; charset=UTF-8"/>
      <xsl:copy-of select="$brand.links"/>
    </head>
    <body>
      <xsl:copy-of select="$brand.header"/>
      <div class="searchPage">
        <div class="forms">
          <table>
            <tr>
              <td class="{if(matches($smode,'simple')) then 'tab-select' else 'tab'}">
                <a href="search?smode=simple">Keyword</a></td>
                <!-- <td class="{if(matches($smode,'advanced')) then 'tab-select' else 'tab'}">
                <a href="search?smode=advanced">Advanced</a></td>
              <td class="{if(matches($smode,'freeform')) then 'tab-select' else 'tab'}">
                <a href="search?smode=freeform">Freeform</a></td> -->
              <td class="{if(matches($smode,'browse')) then 'tab-select' else 'tab'}">
                <a href="search?smode=browse">Browse</a></td>
            </tr>
          </table>
        </div>
      </div>
    </body>
  </html>

```

Altering example search text to reflect SCA subject matter

```

<!-- simple form -->
<xsl:template name="simpleForm" exclude-result-prefixes="#all">
  <form method="get" action="{ $xtfURL } { $crossqueryPath }">
    <table>
      <tr>
        <td>
          <input type="text" name="keyword" size="40" value="{ $keyword }"/>
          <xsl:text>#160;</xsl:text>
          <input type="submit" value="Search"/>
          <input type="reset" onclick="location.href='{ $xtfURL } { $crossqueryPath }'" value="Clear"/>
        </td>
      </tr>
      <tr>
        <td>
          <table class="sampleTable">
            <tr>
              <td colspan="2">Examples:</td>
            </tr>
            <tr>
              <td class="sampleQuery">ceramic</td>
              <td class="sampleDescrip">Search keywords for 'ceramic'</td>
            </tr>
            <tr>
              <td class="sampleQuery">ceramic sculpture</td>
              <td class="sampleDescrip">Search keywords for 'ceramic' AND 'sculpture'</td>
            </tr>
            <tr>
              <td class="sampleQuery">"toni warburton"</td>
              <td class="sampleDescrip">Search keywords for the phrase 'toni warburton'</td>
            </tr>
            <tr>
              <td class="sampleQuery">figur*</td>
              <td class="sampleDescrip">Search keywords for the string 'figur' followed by 0 or more characters</td>
            </tr>
            <tr>
              <td class="sampleQuery">figur?</td>
              <td class="sampleDescrip">Search keywords for the string 'figur' followed by a single character</td>
            </tr>
          </table>
        </td>
      </tr>
    </table>
  </form>

```

Screenshot: Modified search page

Keyword	Browse
<input type="text"/>	
<input type="button" value="Search"/>	<input type="button" value="Clear"/>
Examples:	
<input type="text" value="ceramic"/>	Search keywords for 'ceramic'
<input type="text" value="ceramic sculpture"/>	Search keywords for 'ceramic' AND 'sculpture'
<input type="text" value="'toni warburton'"/>	Search keywords for the phrase 'toni warburton'
<input type="text" value="figur*"/>	Search keywords for the string 'figur' followed by 0 or more characters
<input type="text" value="figur?"/>	Search keywords for the string 'figur' followed by a single character

[Comments? Questions?](#)

[Next... Advanced search](#)

Advanced search

[style/crossQuery/resultFormatter/default/searchForms.xsl](#)

- [Input fields](#)
- [Dropdown lists](#)
- [Making dropdowns sticky](#)
- [Future enhancements](#)

As mentioned in the [previous section](#), Jacqui and I have not yet designed an advanced search for the SCA collection, so this section instead describes the advanced search page for the [eBot](#) plant sciences collection.

Bot Images for the plant sciences

The University of Sydney

Keyword Advanced **Freeform** Browse

Entire Text

all of any of these words

Metadata

Title

Creator

Description

Family

Genus

Species

Common name

Country

Vegetation

Habitat

Record number

Image type

Preparation type

Microscope type

Contact Murray Henwood (project lead) | Contact Rowan Brownlee (site creator)

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Input fields

Apart from removing from display some of the default search options, I setup input fields to enable targeted search across particular metadata elements. The example below illustrates description, family, genus, species and common-name fields. In each case *value="{ \$abc }"* refers to the name of the target metadata element. Metadata element names are defined in an indexing preFilter. (For the SCA collection, *scaPrefilter.xsl* is described in an [earlier section](#).)

```
<tr>
  <td class="indent">&#160;</td>
  <td><b>Description</b></td>
  <td>
    <input type="text" name="description" size="40" value="{ $description}"/>
  </td>
</tr>
<tr>
  <td class="indent">&#160;</td>
  <td><b>Family</b></td>
  <td>
    <input type="text" name="family" size="40" value="{ $family}"/>
  </td>
</tr>
<tr>
  <td class="indent">&#160;</td>
  <td><b>Genus</b></td>
  <td>
    <input type="text" name="genus" size="40" value="{ $genus}"/>
  </td>
</tr>
<tr>
  <td class="indent">&#160;</td>
  <td><b>Species</b></td>
  <td>
    <input type="text" name="species" size="40" value="{ $species}"/>
  </td>
</tr>
<tr>
  <td class="indent">&#160;</td>
  <td><b>Common name</b></td>
  <td>
    <input type="text" name="common-name" size="40" value="{ $common-name}"/>
  </td>
</tr>
<tr>
```

Dropdown lists

The eBot advanced search form uses several dropdown lists. The following example is an extract from *image type*. eBot contains a number of types including *herbarium*, *plant* and *micrograph*.

```

<tr>
  <td class="indent">&#160;</td>
  <td><b>Image type</b></td>
  <td>
    <select size="1" name="rectype">
      <option value="">Any type</option>
      <xsl:choose>
        <xsl:when test="contains($urlParams,'herbarium')">
          <option value="herbarium" selected="yes">herbarium</option>
        </xsl:when>
        <xsl:otherwise>
          <option value="herbarium">herbarium</option>
        </xsl:otherwise>
      </xsl:choose>
      <xsl:choose>
        <xsl:when test="contains($urlParams,'landscape')">
          <option value="landscape" selected="yes">landscape</option>
        </xsl:when>
        <xsl:otherwise>
          <option value="landscape">landscape</option>
        </xsl:otherwise>
      </xsl:choose>
      <xsl:choose>
        <xsl:when test="contains($urlParams,'micrograph')">
          <option value="micrograph" selected="yes">micrograph</option>
        </xsl:when>
        <xsl:otherwise>
          <option value="micrograph">micrograph</option>
        </xsl:otherwise>
      </xsl:choose>
      <xsl:choose>
        <xsl:when test="contains($urlParams,'plant')">
          <option value="plant" selected="yes">plant</option>
        </xsl:when>
        <xsl:otherwise>
          <option value="plant">plant</option>
        </xsl:otherwise>
      </xsl:choose>
    </select>
  </td>
</tr>

```

Making dropdown selections sticky

By default, dropdown list selections are not sticky. If I choose an option from a dropdown list, perform a search and click 'modify search' from the results page to return to the advanced search page my previously selected dropdown choice will not display. Instead the default option at the head of the dropdown list displays. Selections can be made sticky by including an instruction provided elsewhere by XTF.

```

<!-- advanced form -->
<xsl:template name="advancedForm" exclude-result-prefixes="#all">
  <!-- For checking url parameters to make dropdowns sticky -->
  <xsl:variable name="urlParams" select="editURL:remove(replace($http:URL, '.+search\?|.+oai\?', ''), 'startDoc')"></xsl:variable>

```

Future enhancements

The current advanced search is quite simple and could be developed to be far more extensive and flexible. I'd like to provide dropdown lists or automatic completion for fields such as family, genus and species. These classification elements are already related to each other through an extensive taxonomy underpinning the eBot collection, and the relationships might be exploited to provide additional support for searching. As an example, if a user wishes to search on a particular species, selection from the species category should trigger auto-population of the the family and genus fields. It would also be useful to enable the boolean 'OR' within categories such as *image type*. This would enable multiple selections from the list, to suit cases where people are interested in results comprising several image types such as *herbarium OR micrograph*.

[Next... Styling the site](#)

Styling the site

brand/default.xml

- [Modified header and footer](#)
- [Changes to css](#)
- [Referencing header, footer and css within templates](#)
- [Screenshot: Styled search page](#)
- [Screenshot: Styled browse-all by facet page](#)
- [Screenshot: Styled full record page](#)

Modified header and footer

Header and footer information is contained in *brand/default.xml* which I alter to provide pointers to styling elements more reflective of the [University of Sydney](#) corporate style.

```

<?xml version="1.0" encoding="UTF-8"?>
<brand xmlns="http://www.w3.org/1999/xhtml">
  <links>
    <link rel="stylesheet" href="css/default/results.css" type="text/css"/>
  </links>
  <dynaxml.links>
    <link rel="stylesheet" href="css/default/content.css" type="text/css"/>
  </dynaxml.links>
  <header>
    <div class="header">
      
      <h1 class="stitle" >Sydney College of the Arts Archive Images</h1>
      <br class="clear" />
      <ul>
        <li><a href="http://pictor.library.usyd.edu.au:8080/xtf-sca/static/sca/about.shtml#about_contacts">Contact</a></li>
        <li><a href="http://pictor.library.usyd.edu.au:8080/xtf-sca/static/sca/about.shtml">About</a></li>
        <li><a href="http://pictor.library.usyd.edu.au:8080/xtf-sca/static/sca/index.shtml">Collection Home</a></li>
        <li><a href="http://library.usyd.edu.au">Library</a></li>
        <li><a href="http://www.usyd.edu.au/sca/learning_teaching/projects/sca_images_online.shtml">SCA Images Online</a></li>
        <li><a href="http://www.usyd.edu.au/">University Home</a></li>
      </ul>
    </div>
  </header>
  <dynaxml.header>
    <div class="header">
      
      <h1 class="stitle">Sydney College of the Arts Archive Images</h1>
      <br class="clear" />
      <ul>
        <li><a href="http://pictor.library.usyd.edu.au:8080/xtf-sca/static/sca/about.shtml#about_contacts">Contact</a></li>
        <li><a href="http://pictor.library.usyd.edu.au:8080/xtf-sca/static/sca/about.shtml">About</a></li>
        <li><a href="http://pictor.library.usyd.edu.au:8080/xtf-sca/static/sca/index.shtml">Collection Home</a></li>
        <li><a href="http://library.usyd.edu.au">Library</a></li>
        <li><a href="http://www.usyd.edu.au/sca/learning_teaching/projects/sca_images_online.shtml">SCA Images Online</a></li>
        <li><a href="http://www.usyd.edu.au/">University Home</a></li>
      </ul>
    </div>
  </dynaxml.header>
  <!-- start footer -->
  <footer>
    <div id="foot">
      <div class="f2"></div>
      <div class="f1"></div>
      <div class="f0"></div>
      <div class="foot-content">
        <p>Presentation of this collection is an initiative of the University of Sydney Library in partnership with Jacqui Spedding, Project Manager for Sydney College of the Arts Images Online.
        <br>Digital objects and metadata provided by Jacqui Spedding. Site created by Rowan Brownlee, Digital Project Analyst, University of Sydney Library, using the eXtensible Text Framework (XTF).</br>
        </p>
        <p>&#160;&#160;</p>
        <p>2002-2009 The University of Sydney, NSW 2006 Australia. <strong>Phone:</strong>&#160;+61&#160;2&#160;9351&#160;2222.
        <strong>ABN:</strong>&#160;15&#160;211&#160;513&#160;464. <strong>CRICOS&#160;Number:</strong>&#160;00026A.</p>
        <p><strong>Authorised&#160;by:</strong>&#160;University Librarian, University of Sydney Library.
        <strong>Last&#160;Updated:</strong>&#160;February 23 2009</p>
        <p id="foot-links"><a href="http://www.usyd.edu.au/contact.shtml">Contacts</a> |
        <a href="http://www.usyd.edu.au/sitemap.shtml">Sitemap</a> | <a href="http://www.usyd.edu.au/jobs/index.shtml">Jobs</a> |
        <a href="http://www.library.usyd.edu.au">Library</a> | <a href="http://www.usyd.edu.au/disclaimer.shtml">Disclaimer</a> |
        <a href="http://www.usyd.edu.au/privacy.shtml">Privacy Statement</a></p>
      </div>
      <div class="f0"></div>
      <div class="f1"></div>
      <div class="f2"></div>
    </div>
  </footer>
</brand>

```

Changes to css

As css changes are specific to the University of Sydney context, I haven't included details.

Referencing header, footer and css within templates

Because css, header and footer information is contained within *brand/default.xml*, it is sufficient to provide references within templates, in the following format.

```
<xsl:copy-of select="$brand.links"/>
<xsl:copy-of select="$brand.header"/>
```

Results template including references to \$brand.links (for css) and \$brand.header:

```
<!-- ===== -->
<!-- Results Template -->
<!-- ===== -->

<xsl:template match="crossQueryResult" mode="results" exclude-result-prefixes="#all">

  <!-- modify query URL -->
  <xsl:variable name="modify" select="if(matches($smode,'simple')) then 'simple-modify' else 'advanced-modify'"/>
  <xsl:variable name="modifyString" select="editURL:set($queryString, 'smode', $modify)"/>

  <html xml:lang="en" lang="en">
    <head>
      <title>SCA Archive Images: Search Results</title>
      <meta http-equiv="Content-Type" content="text/html; charset=UTF-8"/>
      <xsl:copy-of select="$brand.links"/>
      <!-- AJAX support -->
      <script src="script/yui/yahoo-dom-event.js" type="text/javascript"/>
      <script src="script/yui/connection-min.js" type="text/javascript"/>
    </head>
    <body>
      <!-- header -->
      <xsl:copy-of select="$brand.header"/>
```

Screenshot: Styled search page

The University of Sydney Sydney College of the Arts Archive Images

University Home SCA Images Online Library Collection Home About Contact

Keyword

Examples:

ceramic	Search keywords for 'ceramic'
ceramic sculpture	Search keywords for 'ceramic' AND 'sculpture'
"toni warburton"	Search keywords for the phrase 'toni warburton'
figur*	Search keywords for the string 'figur' followed by 0 or more characters
figur?	Search keywords for the string 'figur' followed by a single character

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Screenshot: Styled browse-all by facet page


The University of Sydney
Sydney College of the Arts Archive Images

University Home
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About
Contact

Browse by: All

Results: 834 Items

Sorted by: relevance

Citations (0)

[Modify Search](#) | [New Search](#)

[Browse by Facet](#) | [Title](#) | [Artist](#)

Page: 1 2 3 4 5 ... [Next](#)

Classification

- Animation (2)
- ☐ Ceramics (137)
- Collage (1)
- ☐ Drawings (10)
- ☐ Film and Video (96)
- ☐ Glass (50)
- ☐ Installation (16)
- ☐ Jewellery (57)
- ☐ Object (8)
- Other (2)
- ☐ Painting (159)
- Performance (5)
- ☐ Photography (111)
- ☐ Print (100)
- ☐ Sculpture (80)

Culture

- ☐ International (834)

Subject

- Painting (2)
- Printmedia (1)
- Vase Shapes (6)
- animals (1)
- boats (7)

[more](#)

1



Artist: Guy, Jan 1963- [Add](#)

Title: [Figure](#)

Date: 1987

Media: Coloured stains, under glaze, gold leaf on ceramic (hand-built)

Studio: Ceramics

Similar Items: [Find](#)

2



Artist: Abraham, Heidi [Add](#)

Title: [Untitled](#)

Date: 2007

Studio: Sculpture, Performance and Installation

Similar Items: [Find](#)

Screenshot: Styled full-record page

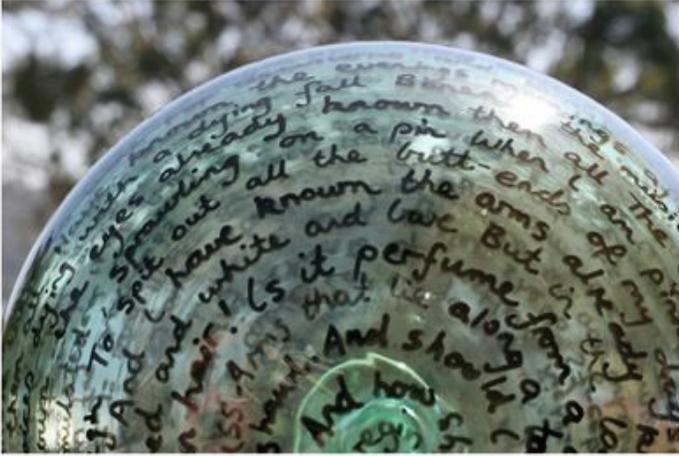
 The University of Sydney
Sydney College of the Arts Archive Images

University Home SCA Images Online Library Collection Home About Contact

Home | Return to Search Results
Citation | Print View

Full record

Download a powerpoint or web image, or zoom a full-sized image.



Artist	MacKinnon, Lynne
Title	Untitled
Date	2007
Media	
Classification	Painting
Culture	International - Australia - Contemporary
Collection	SCA Archive Exhibitions, Degree Shows, Sydney College of the Arts, 2007
Studio	Painting
Degree	Bachelor of Visual Arts -- Honours -- BVA Hons
Affiliation	Alumni
Copyright	Image created by permission of the copyright holder

[Next... Displaying error messages](#)

Displaying error messages

Presentation of error messages is handled by errorGen.xsl. There are two files, one each for index errors and query errors. They are located at

```
style\dynaXML\errorGen.xsl
style\crossQuery\errorGen.xsl
```

- [Screenshot: Default error display](#)
- [Screenshot: Customised presentation of error messages](#)
- [Referencing site styling elements](#)
- [Modifying the error presentation template](#)

Screenshot: Default error display

Servlet Error: NullPointerException

An unexpected servlet error has occurred.

Stack Trace:

```
java.lang.NullPointerException at org.cdlib.xtf.textEngine.QueryRequestParser.deChunk(QueryRequestParser.java:1188) at org.cdlib.xtf.textEngine.QueryRequestParser.createMultiFieldQuery
(QueryRequestParser.java:843) at org.cdlib.xtf.textEngine.QueryRequestParser.parseMultiFieldQuery(QueryRequestParser.java:763) at org.cdlib.xtf.textEngine.QueryRequestParser.parseQuery2
(QueryRequestParser.java:529) at org.cdlib.xtf.textEngine.QueryRequestParser.parseQuery(QueryRequestParser.java:475) at org.cdlib.xtf.textEngine.QueryRequestParser.parseQuery2
(QueryRequestParser.java:586) at org.cdlib.xtf.textEngine.QueryRequestParser.parseQuery(QueryRequestParser.java:475) at org.cdlib.xtf.textEngine.QueryRequestParser.parseOutput
(QueryRequestParser.java:263) at org.cdlib.xtf.textEngine.QueryRequestParser.parseOutputTop(QueryRequestParser.java:218) at org.cdlib.xtf.textEngine.QueryRequestParser.parseRequest
(QueryRequestParser.java:132) at org.cdlib.xtf.textEngine.QueryRequestParser.parseRequest(QueryRequestParser.java:165) at org.cdlib.xtf.crossQuery.CrossQuery.runQueryParser(CrossQuery.java:374)
at org.cdlib.xtf.crossQuery.CrossQuery.apply(CrossQuery.java:179) at org.cdlib.xtf.crossQuery.CrossQuery.doGet(CrossQuery.java:132) at javax.servlet.http.HttpServlet.service(HttpServlet.java:617)
at org.cdlib.xtf.servletBase.TextServlet.service(TextServlet.java:380) at javax.servlet.http.HttpServlet.service(HttpServlet.java:717) at org.apache.catalina.core.ApplicationFilterChain.internalDoFilter
(ApplicationFilterChain.java:290) at org.apache.catalina.core.ApplicationFilterChain.doFilter(ApplicationFilterChain.java:206) at org.apache.catalina.core.StandardWrapperValve.invoke
(StandardWrapperValve.java:233) at org.apache.catalina.core.StandardContextValve.invoke(StandardContextValve.java:191) at org.apache.catalina.core.StandardHostValve.invoke
(StandardHostValve.java:128) at org.apache.catalina.valves.ErrorReportValve.invoke(ErrorReportValve.java:102) at org.apache.catalina.core.StandardEngineValve.invoke(StandardEngineValve.java:109)
at org.apache.catalina.connector.CoyoteAdapter.service(CoyoteAdapter.java:286) at org.apache.coyote.http11.Http11Processor.process(Http11Processor.java:845) at
org.apache.coyote.http11.Http11Protocol$Http11ConnectionHandler.process(Http11Protocol.java:583) at org.apache.tomcat.util.net.JIoEndpoint$Worker.run(JIoEndpoint.java:447) at
java.lang.Thread.run(Thread.java:619)
```

If you have questions, need further technical assistance, or believe that you have reached this page in error, send email to the CDL (cdl@www.cdlib.org) or call the CDL Helpline (510.987.0555). Be sure to include the above message and/or stack trace in your communication.

Screenshot: Customised presentation of error messages

This example shows an error message within a navigation model used throughout the site.

**The University of Sydney**

Sydney College of the Arts Archive Images

[University Home](#) [SCA Images Online](#) [Library](#) [Collection Home](#) [About](#) [Contact](#)

An error has occurred.

If you'd like further information, email the site administrator (r.brownlee@library.usyd.edu.au). Include all of the information on this page within your email, and a description of what you were attempting just before this error page appeared. Otherwise, use the browser back-arrow to return to the previous page, or choose one of the options from the navigation banner above.

Type of error:
NullPointerException

Error stack Trace:

```
java.lang.NullPointerException at org.cdlib.xtf.textEngine.QueryRequestParser.deChunk(QueryRequestParser.java:1188) at
org.cdlib.xtf.textEngine.QueryRequestParser.createMultiFieldQuery(QueryRequestParser.java:843) at
org.cdlib.xtf.textEngine.QueryRequestParser.parseMultiFieldQuery(QueryRequestParser.java:763) at
org.cdlib.xtf.textEngine.QueryRequestParser.parseQuery2(QueryRequestParser.java:529) at
org.cdlib.xtf.textEngine.QueryRequestParser.parseQuery(QueryRequestParser.java:475) at
org.cdlib.xtf.textEngine.QueryRequestParser.parseQuery2(QueryRequestParser.java:586) at
org.cdlib.xtf.textEngine.QueryRequestParser.parseQuery2(QueryRequestParser.java:475) at
org.cdlib.xtf.textEngine.QueryRequestParser.parseQuery2(QueryRequestParser.java:586) at
org.cdlib.xtf.textEngine.QueryRequestParser.parseQuery2(QueryRequestParser.java:475) at
org.cdlib.xtf.textEngine.QueryRequestParser.parseOutput(QueryRequestParser.java:263) at
org.cdlib.xtf.textEngine.QueryRequestParser.parseOutputTop(QueryRequestParser.java:218) at
org.cdlib.xtf.textEngine.QueryRequestParser.parseRequest(QueryRequestParser.java:132) at
org.cdlib.xtf.textEngine.QueryRequestParser.parseRequest(QueryRequestParser.java:165) at org.cdlib.xtf.crossQuery.CrossQuery.runQueryParser
(CrossQuery.java:374) at org.cdlib.xtf.crossQuery.CrossQuery.apply(CrossQuery.java:179) at org.cdlib.xtf.crossQuery.CrossQuery.doGet
(CrossQuery.java:132) at javax.servlet.http.HttpServlet.service(HttpServlet.java:617) at org.cdlib.xtf.servletBase.TextServlet.service
(TextServlet.java:380) at javax.servlet.http.HttpServlet.service(HttpServlet.java:717) at
org.apache.catalina.core.ApplicationFilterChain.internalDoFilter(ApplicationFilterChain.java:290) at
org.apache.catalina.core.ApplicationFilterChain.doFilter(ApplicationFilterChain.java:206) at
org.apache.catalina.core.StandardWrapperValve.invoke(StandardWrapperValve.java:233) at
org.apache.catalina.core.StandardContextValve.invoke(StandardContextValve.java:191) at org.apache.catalina.core.StandardHostValve.invoke
(StandardHostValve.java:128) at org.apache.catalina.valves.ErrorReportValve.invoke(ErrorReportValve.java:102) at
org.apache.catalina.core.StandardEngineValve.invoke(StandardEngineValve.java:109) at org.apache.catalina.connector.CoyoteAdapter.service
(CoyoteAdapter.java:286) at org.apache.coyote.http11.Http11Processor.process(Http11Processor.java:845) at
org.apache.coyote.http11.Http11Protocol$Http11ConnectionHandler.process(Http11Protocol.java:583) at
org.apache.tomcat.util.net.JioEndpoint$Worker.run(JioEndpoint.java:447) at java.lang.Thread.run(Thread.java:619)
```

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Referencing site styling elements

Apart from altering the order of displayed sections and editing contact details, I add references to styling elements.

```

<!-- ===== -->
<!-- Parameters -->
<!-- ===== -->
<xsl:param name="docId"/>
<xsl:param name="exception"/>
<xsl:param name="message"/>
<xsl:param name="ipAddr" select="''"/>
<xsl:param name="stackTrace" select="''"/>
<!-- Added by Rowan to enable reference to brand links etc. -->
<xsl:param name="brand" select="'default'"/>

<!-- Retrieve Branding Nodes -->
<xsl:variable name="brand.file">
  <xsl:choose>
    <xsl:when test="$brand != ''">
      <xsl:copy-of select="document(concat('../..'/brand/', $brand, '.xml'))"/>
    </xsl:when>
    <xsl:otherwise>
      <xsl:copy-of select="document('../..'/brand/default.xml')"/>
    </xsl:otherwise>
  </xsl:choose>
</xsl:variable>
<xsl:param name="brand.links" select="$brand.file//links/*" xpath-default-namespace="http://www.w3.org/1999/xhtml"/>
<xsl:param name="brand.header" select="$brand.file//header/*" xpath-default-namespace="http://www.w3.org/1999/xhtml"/>
<xsl:param name="brand.footer" select="$brand.file//footer/*" xpath-default-namespace="http://www.w3.org/1999/xhtml"/>

<!-- Path Parameters -->
<xsl:param name="servlet.path"/>
<xsl:param name="root.path"/>
<xsl:param name="xtfURL" select="$root.path"/>
<xsl:param name="serverURL" select="replace($xtfURL, '(http://.+)[:/].+', '$1/')"/>
<xsl:param name="crossqueryPath" select="if (matches($servlet.path, 'org.cdlib.xtf.dynaXML.DynaXML'))
then 'org.cdlib.xtf.crossQuery.CrossQuery' else 'search'"/>
<xsl:param name="dynaxmlPath" select="if (matches($servlet.path, 'org.cdlib.xtf.crossQuery.CrossQuery'))
then 'org.cdlib.xtf.dynaXML.DynaXML' else 'view'"/>

<!--Additional styling parameters -->
<xsl:param name="icon.path" select="concat($xtfURL, 'icons/default/')"/>
<xsl:param name="css.path" select="'css/default/'"/>
<xsl:param name="content.css" select="'results.css'"/>

```

Modifying the error presentation template

Styling elements are referenced within a modified template.

```

<!-- ===== -->
<!-- Root Template -->
<!-- ===== -->

<!--
  For this sample error generation stylesheet, we use the input mini-
  document instead of the parameters.
-->

<xsl:variable name="reason">
  <xsl:choose>
    <xsl:when test="//QueryFormat">
      <xsl:text>SCA Images Archive, crossQuery Error: Query format error</xsl:text>
    </xsl:when>
    <xsl:otherwise>
      <xsl:text>SCA Images Archive, crossQuery Error: Servlet error</xsl:text>
    </xsl:otherwise>
  </xsl:choose>
</xsl:variable>

<xsl:template match="/">
  <html>
    <head>
      <title><xsl:value-of select="$reason"/></title>
      <meta http-equiv="Content-Type" content="text/html; charset=UTF-8"/>
      <xsl:copy-of select="$brand.links"/>
      <!-- AJAX support -->
      <script src="script/yui/yahoo-dom-event.js" type="text/javascript"/>
      <script src="script/yui/connection-min.js" type="text/javascript"/>
      <link rel="stylesheet" type="text/css" href="{ $css.path } { $content.css }"/>
    </head>
    <body>
      <xsl:copy-of select="$brand.header"/>
      <div class="results">
        <xsl:choose>
          <xsl:when test="QueryFormat
            or TermLimit
            or ExcessiveWork
            or UnsupportedQuery">
            <xsl:apply-templates/>
          </xsl:when>
          <xsl:otherwise>
            <xsl:for-each select="*">
              <xsl:call-template name="GeneralError"/>
            </xsl:for-each>
          </xsl:otherwise>
        </xsl:choose>
      </div>
    </body>
  </html>
</xsl:template>

```

[Next... About the collections](#)

About the collections

The [University of Sydney Library](#) is using an XTF presentation model to enable online access to several media

collections in the fields of plant sciences, visual arts and archaeology. eBot was released for public access in October 2009, and the Archaeology collection followed in November. The SCA collection was launched in February 2010. This initiative results from partnerships between the Library, academics and associated project managers.

- **SCA Archive**

The SCA Archive contains image and video reproduction of works created by visual arts academics and students at Sydney College of the Arts. The key project partner is Jacqui Spedding, project manager for SCA Images Online. The SCA Archive comprises 1509 items.

[Screenshots](#) | [Access the SCA Archive](#)

- **eBot**

eBot is a collection of plant sciences images representing the work of University of Sydney academics for use in research, learning and teaching programs. Key project partners include Murray Henwood and Rosanne Quinnell (School of Biological Sciences) and Su Hanfling (Library). More information about eBot, from the proceedings of the 2008 Uniserve Conference. eBot comprises 1856 images.

[Screenshots](#) | [Access eBot](#)

- **Sarah Colley's fish-bone image collection**

Sarah Colley's archaeological collection contains images of fish-bones and provides support for her research and that of her project partners. One of Sarah's research interests concerns the archaeological study of fish and fishing in Sydney before and after 1788. The collection comprises 812 images.

[Screenshots](#) | [Access Sarah Colley's fish-bone image collection](#)

Screenshots and Details for Each Collection

[SCA Archive](#)

The SCA Archive contains image and video reproduction of works created by visual arts academics and students at Sydney College of the Arts. The key project partner is Jacqui Spedding, project manager for [SCA Images Online](#). The SCA Archive comprises 1509 items.

[Screenshots](#)

Screenshots from the SCA Archive

- [Collection home page](#)
- [About the collection](#)
- [Search page](#)
- [Browse page](#)
- [Browse all by facet](#)
- [Full record with image display options](#)
- [Full record with zoomable image](#)
- [Full record with image and video display options](#)
- [Full record with video playback](#)
- [Full record print view](#)

Collection home page

A static html page providing an entry point to the collection. Useful for promotion and marketing.



The University of Sydney

Sydney College of the Arts Archive Images

University Home **SCA Archive Images** SCA Images Online Library About Contact

Search
→ Search the collection

About
→ The project
→ Promoting creativity
→ Protecting intellectual property
→ Ensuring access
→ Contributing works
→ Technology
→ Contacts



Sydney College of the Arts Archive Images (Draft site, in progress)

Welcome to the SCA Archive. A partnership initiative of the [University of Sydney Library](#) and [Sydney College of the Arts](#) to showcase and ensure ongoing access to digital versions of works created by SCA staff and students and to promote and celebrate the creativity of the College. [Search](#) or [browse](#) the collection.

Presentation of this collection is an initiative of the University of Sydney Library in partnership with Jacqui Spedding, Project Manager for Sydney College of the Arts Images Online. Digital objects and metadata provided by Jacqui Spedding. Site created by Rowan Brownlee, Digital Project Analyst, University of Sydney Library, using the eXtensible Text Framework (XTF).

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About the collection

A static html page with background information.

The University of Sydney

Sydney College of the Arts Archive Images

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Search

[Search the collection](#)

About

[The project](#)

[Promoting creativity](#)

[Protecting intellectual property](#)

[Ensuring access](#)

[Contributing works](#)

[Technology](#)

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About the SCA Archive Images Project

The SCA Archive is a partnership initiative of the [University of Sydney Library](#) and [Sydney College of the Arts](#) to showcase and ensure ongoing access to digital versions of works created by SCA staff and students and to promote and celebrate the creativity of the College.

Promoting the creativity of SCA students, graduates and staff

Many SCA graduates and staff become successful artists, art historians and theoreticians. The SCA Archive is one way to celebrate and promote achievements and raise research profile. Alumni and staff, past and present, are invited to contribute digital versions of their work to the SCA Archive.

Protecting intellectual property

The archive supports the use of images within an educational environment. Creators retain copyright at all times, and with their permission, digital representations of works enrich learning and teaching programs at SCA and aid scholarly research.

Ensuring access

The SCA Archive is managed by the University Library. The Library is committed to seeking to ensure ongoing access.

Contributing digital versions of works to the SCA Archive

Information:

[SCA Archive Submission Form](#)

[Sydney eScholarship Copyright Release Form](#)

[Guidelines for submitting works to the SCA Archive](#)

Technology enabling online access

The site was developed by [Rowan Brownlee](#), using the [eXtensible Text Framework \(XTF\)](#).

For more information about the SCA Archive Images Project, contact

Jacqui Spedding

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SCA Images Online
Sydney College of the Arts,
University of Sydney.

Phone: +61 2 9351 1029

Email: j.spedding@sca.usyd.edu.au

Web: [SCA Images Online](#)

Rowan Brownlee

Digital Project Analyst,
Sydney eScholarship
University of Sydney Library
F03 University of Sydney NSW 2006

Phone: +61 2 9036 6450

Email: r.brownlee@library.usyd.edu.au

Web: [Digital Project Analyst](#)

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Search page


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Sydney College of the Arts Archive Images

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Keyword
Browse

Examples:

ceramic	<i>Search keywords for 'ceramic'</i>
ceramic sculpture	<i>Search keywords for 'ceramic' AND 'sculpture'</i>
"toni warburton"	<i>Search keywords for the phrase 'toni warburton'</i>
figur*	<i>Search keywords for the string 'figur' followed by 0 or more characters</i>
figur?	<i>Search keywords for the string 'figur' followed by a single character</i>

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Browse page


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Keyword
Browse

Browse all documents by the available facets, or by title or artist:

[Facet](#) | [Title](#) | [Artist](#)

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Browse all by facet


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Browse by: All

Results: 834 Items

Sorted by: relevance

Citations (0)

[Modify Search](#) | [New Search](#)

[Browse by Facet](#) | [Title](#) | [Artist](#)

Page: 1 2 3 4 5 ... Next

Classification

- Animation (2)
- ▣ Ceramics (137)
- Collage (1)
- ▣ Drawings (10)
- ▣ Film and Video (96)
- ▣ Glass (50)
- ▣ Installation (16)
- ▣ Jewellery (57)
- Object (8)
- Other (2)
- ▣ Painting (159)
- Performance (5)
- ▣ Photography (111)
- ▣ Print (100)
- ▣ Sculpture (80)

Culture

- ▣ International (834)

Subject

- Painting (2)
- Printmedia (1)
- Vase Shapes (6)
- animals (1)
- boats (7)
- [more](#)

Type

- digital image (834)
- video (13)

Special collection

- Exhibitions, Degree Shows, Sydney College of the Arts, 2006 (234)
- Exhibitions, Degree Shows, Sydney College of the Arts, 2007 (177)
- Exhibitions, Degree Shows, Sydney College of the Arts, 2008 (244)
- Fine Arts Print catalogue (6)
- Fine Arts, Painting catalogue (7)
- [more](#)

Degree

- Bachelor of Visual Arts -- BA (1)
- Bachelor of Visual Arts -- BVA (370)
- Bachelor of Visual Arts -- Honours -- BVA Hons (116)
- Doctor of Philosophy -- Phd (22)
- MCAE (5)
- [more](#)

Studio

- Ceramics (141)
- Film and Digital Arts (103)
- Glass (50)
- Jewellery and Object (71)
- Painting (161)
- [more](#)

Affiliation

- alumni (423)
- staff member - current (130)
- staff member - previous (36)
- students - graduating (245)

1		<p>Artist: Guy, Jan 1963- Add</p> <p>Title: Figure</p> <p>Date: 1987</p> <p>Media: Coloured stains, under glaze, gold leaf on ceramic (hand-built)</p> <p>Studio: Ceramics</p> <p>Similar Items: Find</p>
2		<p>Artist: Abraham, Heidi Add</p> <p>Title: Untitled</p> <p>Date: 2007</p> <p>Studio: Sculpture, Performance and Installation</p> <p>Similar Items: Find</p>
3		<p>Artist: Sanzeeda, Ali Add</p> <p>Title: Untitled</p> <p>Date: 2007</p> <p>Studio: Photomedia</p> <p>Similar Items: Find</p>
4		<p>Artist: Allen, Sarah-Jane Add</p> <p>Title: Untitled</p> <p>Date: 2007</p> <p>Studio: Film and Digital Arts</p> <p>Similar Items: Find</p>
5		<p>Artist: Arellano, Lupe Add</p> <p>Title: Untitled</p> <p>Date: 2007</p> <p>Studio: Photomedia</p> <p>Similar Items: Find</p>
6		<p>Artist: Armstrong, Robyn Add</p> <p>Title: Untitled</p> <p>Date: 2007</p>

Full record with image display options

These display options are visible if the record describes an image. (Options appear below the red *Full record* heading.)


The University of Sydney

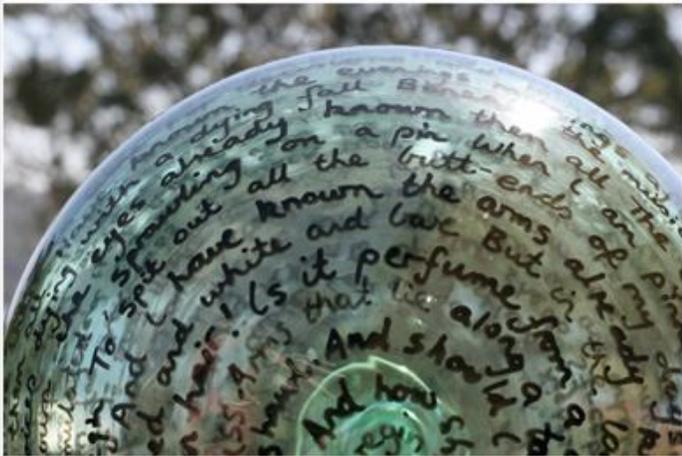
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Full record

Download a [powerpoint](#) or [web image](#), or [zoom a full-sized image](#).



Artist	Mackinnon, Lynne
Title	Untitled
Date	2007
Media	
Classification	Painting
Culture	International - Australia - Contemporary
Collection	SCA Archive Exhibitions, Degree Shows, Sydney College of the Arts, 2007
Studio	Painting
Degree	Bachelor of Visual Arts -- Honours -- BVA Hons
Affiliation	Alumni
Copyright	Image created by permission of the copyright holder

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Full record with zoomable image

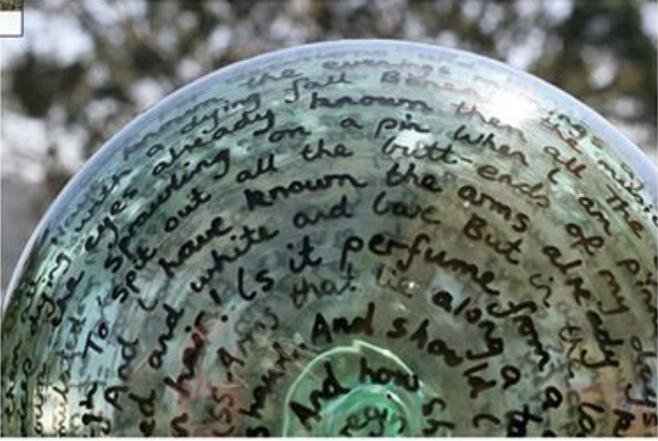

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Full record with zoomified image

Zoom by clicking on the image, or use the controls at the base. Scroll to read descriptive information.

z

Artist	Mackinnon, Lynne
Title	Untitled
Date	2007
Media	
Classification	Painting
Culture	International - Australia - Contemporary
Collection	SCA Archive Exhibitions, Degree Shows, Sydney College of the Arts, 2007
Studio	Painting
Degree	Bachelor of Visual Arts -- Honours -- BVA Hons
Affiliation	Alumni
Copyright	Image created by permission of the copyright holder

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Full record with image and video display options

These display options are visible if the record describes a video. (Options appear below the red *Full record* heading.)


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Sydney College of the Arts Archive Images

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Full record

Play video at [high](#), [medium](#), or [low](#) resolution. [Zoom a full-sized image](#) or [download for powerpoint](#), or [web](#).



Artist	Farhat, Chimene
Title	Untitled
Date	2007
Classification	Film and Video
Culture	International - Australia - Contemporary
Collection	SCA Archive Exhibitions, Degree Shows, Sydney College of the Arts, 2007
Studio	Film and Digital Arts
Degree	Bachelor of Visual Arts -- BVA
Affiliation	Alumni
Copyright	Image created by permission of the copyright holder

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Full record with video playback


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[Citation](#) | [Print View](#)

Full record with video



Artist	Farhat, Chimene
Title	Untitled
Date	2007
Classification	Film and Video
Culture	International - Australia - Contemporary
Collection	SCA Archive Exhibitions, Degree Shows, Sydney College of the Arts, 2007
Studio	Film and Digital Arts
Degree	Bachelor of Visual Arts -- BVA
Affiliation	Alumni
Copyright	Image created by permission of the copyright holder

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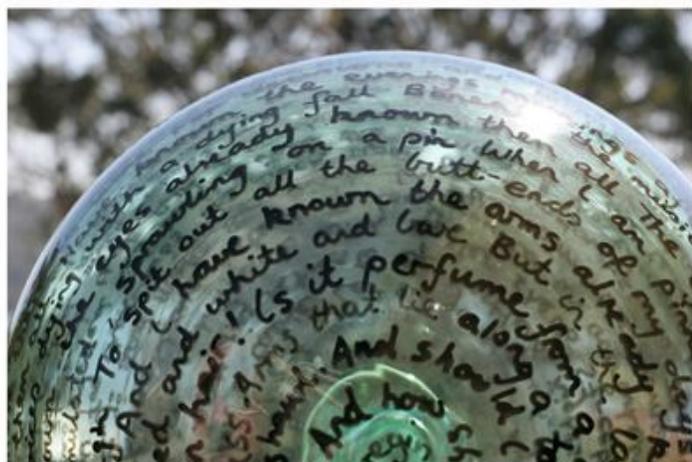
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Full record print view

Full record: [Print view](#)

Source: SCA Archive Images

http://localhost/xtf-sca/view?docId=sca/records/SCA1230-1.xml;doc.view=full_record



Artist	MacKinnon, Lynne
Title	Untitled
Date	2007
Media	
Classification	Painting
Culture	International - Australia - Contemporary
Collection	SCA Archive Exhibitions, Degree Shows, Sydney College of the Arts, 2007
Studio	Painting
Degree	Bachelor of Visual Arts -- Honours -- BVA Hons
Affiliation	Alumni
Copyright	Image created by permission of the copyright holder

[eBot Archive](#)

eBot is a collection of plant sciences images representing the work of University of Sydney academics for use in research, learning and teaching programs. Key project partners include [Murray Henwood](#) and [Rosanne Quinnell](#) (School of Biological Sciences) and [Su Hanfling](#) (Library). More information [about eBot](#), from the proceedings of the [2008 Uniserve Conference](#). eBot comprises 1856 images.

Screenshots from the eBot archive

- [Search page](#)
- [Browse page](#)
- [Browse all by facet](#)
- [Full record](#)
- [Full record with zoomable image](#)
- [Full record print view](#)

Search page




Keyword
Advanced
Freeform
Browse

Examples:

telopea	<i>Search keywords (full text and metadata) for 'telopea'</i>
telopea speciosissima	<i>Search keywords for 'telopea' AND 'speciosissima'</i>
"telopea speciosissima"	<i>Search keywords for the phrase 'telopea speciosissima'</i>
specios*	<i>Search keywords for the string 'specios' followed by 0 or more characters</i>
speciosissia?	<i>Search keywords for the string 'speciosissim' followed by a single character</i>

Contact Murray Henwood (project lead) | Contact Rowan Brownlee (site creator)

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Browse page




Keyword
Advanced
Freeform
Browse

Browse all eBot images by the available facets:
 Facet | Title | Creator | Family | Genus | Species

Contact Murray Henwood (project lead) | Contact Rowan Brownlee (site creator)

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Browse all by facet


Bot Images for the plant sciences


The University of Sydney

My citations (0)
[Modify Search](#) | [New Search](#)
[Browse by Facet](#) | [Title](#) | [Creator](#) | [Family](#) | [Genus](#) | [Species](#)
 Page: 1 2 3 4 5 ... Next

Browse by: All
Results: 1856 Items
Sorted by: relevance

Higher level taxonomy

- Viridiplantae (1838)

Lower level taxonomy

- Acanthaceae (5)
- Actinidiaceae (1)
- Adoxaceae (2)
- Agapanthaceae (20)
- Agavaceae (7)
- Aizoaceae (1)
- Amaranthaceae (31)
- Aphanochaetaceae (1)
- Apiaceae (149)
- Apocynaceae (15)

[more](#)

Common name

- agapanthus (10)
- alfalfa (1)
- anchor vine (2)
- angels trumpet (2)
- apple cactus (2)
- asparagus (1)
- australian carraway (4)
- bacon and egg plant (1)
- banana (3)
- bandicoot berry (1)

[more](#)

Abundance

- common (188)
- locally abundant (387)
- rare (69)

Type

- herbarium (508)
- landscape (21)
- micrograph (800)
- other (5)
- plant (522)

Country

- Australia (1796)
- Austria (14)
- Namibia (15)
- New Zealand (24)

Native naturalised

- natural (812)
- naturalised (32)
- unknown (5)

Creator

- Andrew Perkins (343)
- Malcolm Ricketts (215)
- Matthew Pye (240)
- Murray Henwood (464)
- Rosanne Quinnell (586)
- Su Hanfling (2)

1		<p>Title: LS <i>Sechium edule</i> (choko) stem Add</p> <p>Creator: Rosanne Quinnell</p> <p>Description: Micrograph longitudinal section <i>Sechium edule</i> stem vascular bundle showing primary xylem with annual rings and helical thickening. The pitch of the oldest helical protoxylem ~ 25 µm.</p> <p>Family: Cucurbitaceae</p> <p>Genus: <i>Sechium</i></p> <p>Species:</p> <p>Image type: micrograph</p> <p>Similar Items: Find</p>
2		<p>Title: RLS <i>Cucurbita</i> stem phloem Add</p> <p>Creator: Rosanne Quinnell</p> <p>Description: Micrograph radial longitudinal section <i>Cucurbita</i> stem phloem. Sieve plate ~ 85 µm diameter.</p> <p>Family: Cucurbitaceae</p> <p>Genus: <i>Cucurbita</i></p> <p>Species:</p> <p>Image type: micrograph</p> <p>Similar Items: Find</p>
3		<p>Title: RLS <i>Cucurbita</i> stem vascular bundle Add</p> <p>Creator: Rosanne Quinnell</p> <p>Description: Micrograph radial longitudinal section <i>Cucurbita</i> stem vascular bundle showing protoxylem and metaxylem. The oldest (narrowest) protoxylem ~ 27 µm in diameter.</p> <p>Family: Cucurbitaceae</p> <p>Genus: <i>Cucurbita</i></p> <p>Species:</p> <p>Image type: micrograph</p> <p>Similar Items: Find</p>
4		<p>Title: TS <i>Ficus elastica</i> leaf Add</p> <p>Creator: Rosanne Quinnell</p> <p>Description: Micrograph transverse section <i>Ficus elastica</i> leaf showing multilayered hypodermis. Leaf width ~ 390 µm.</p> <p>Family: Moraceae</p> <p>Genus: <i>Ficus</i></p> <p>Species: <i>elastica</i></p> <p>Image type: micrograph</p> <p>Similar Items: Find</p>
5		<p>Title: TS <i>Ficus elastica</i> unrolled young leaf Add</p> <p>Creator: Rosanne Quinnell</p> <p>Description: Micrograph transverse section <i>Ficus elastica</i> leaf showing immature cystolith. Cystolith length ~ 75 µm.</p> <p>Family: Moraceae</p> <p>Genus: <i>Ficus</i></p> <p>Species: <i>elastica</i></p> <p>Image type: micrograph</p> <p>Similar Items: Find</p>
6		<p>Title: TS <i>Ficus elastica</i> leaf Add</p> <p>Creator: Rosanne Quinnell</p> <p>Description: Micrograph transverse section <i>Ficus elastica</i> leaf showing cystolith (calcium carbonate and cellulose). Cystolith length ~ 85 µm. Leaf width 390 µm.</p> <p>Family: Moraceae</p> <p>Genus: <i>Ficus</i></p> <p>Species: <i>elastica</i></p> <p>Image type: micrograph</p> <p>Similar Items: Find</p>

Full record


Bot Images for the plant sciences


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Citation | Print View

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About this item

Record ID	1020
Title	Grevillea sp.
Description	Grevillea sp., erect shrub, leaves simple and entire, flowers yellow, fruits are follicles.
Institutional collection	None
Genus	Grevillea
Record type	Plant

Copyright

Creator	Murray Henwood
Creator affiliation	University of Sydney
Contact	Murray Henwood
Copyright statement	University of Sydney
Copyright owner	University of Sydney

Taxonomy

Higher level taxonomy	<ul style="list-style-type: none"> –Viridiplantae –Streptophyta –Embryophyta –Tracheophytes –Euphyllophytes –Spermatophyta –Angiosperms –Eudicots –Proteales
Family	Proteaceae
Genus	Grevillea

Location

Cultivation status	Cultivated
Country	Australia

Morphology

Habit or life form	Shrub
Light harvesting structures	Leaf, stem
Reproductive structures	Flower, perianth, androecium, gynoecium, fruit


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Taxonomy

Higher level taxonomy

Family
Genus

Location

Cultivation status
Country

Morphology

Habit or life form
Light harvesting structures
Reproductive structures

Original image file specifications

Format
Size
Date and time image created
Width
Length

--Viridiplantae
--Streptophyta
--Embryophyta
--Tracheophytes
--Euphyllophytes
--Spermatophyta
--Angiosperms
--Eudicots
--Proteales
Proteaceae
Grevillea

Cultivated
Australia

Shrub
Leaf, stem
Flower, perianth, androecium, gynoecium, fruit

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Contact Murray Henwood (project lead) | Contact Rowan Brownlee (site creator)

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Full record with zoomable image

Full record with zoomified image

Zoom by clicking on the image, or use the controls at the base. Scroll to read descriptive information.



About this item

Record ID	1020
Title	Grevillea sp.
Description	Grevillea sp., erect shrub, leaves simple and entire, flowers yellow, fruits are follicles.
Institutional collection	None
Genus	Grevillea
Record type	Plant

Copyright

Creator	Murray Henwood
Creator affiliation	University of Sydney
Contact	Murray Henwood
Copyright statement	University of Sydney
Copyright owner	University of Sydney

Taxonomy

Higher level taxonomy	<ul style="list-style-type: none"> --Viridiplantae --Streptophyta --Embryophyta --Tracheophytes --Euphyllophytes --Spermatophyta --Angiosperms --Eudicots --Proteales
Family	Proteaceae
Genus	Grevillea

Location

Cultivation status	Cultivated
Country	Australia

Morphology

Habit or life form	Shrub
Light harvesting structures	Leaf, stem
Reproductive structures	Flower, perianth, androecium, gynoecium, fruit

Original image file specifications

Format	tiff
Size	13630476 bytes
Date and time image created	2005:06:16 12:36:36
Width	1828 pixels
Length	2482 pixels

Full record print view**About this item**

Record ID	1020
Title	Grevillea sp.
Description	Grevillea sp., erect shrub, leaves simple and entire, flowers yellow, fruits are follies.
Institutional collection	None
Genus	Grevillea
Record type	Plant

Copyright

Creator	Murray Henwood
Creator affiliation	University of Sydney
Contact	Murray Henwood
Copyright statement	University of Sydney
Copyright owner	University of Sydney

Taxonomy

Higher level taxonomy	<ul style="list-style-type: none"> --Viridiplantae --Streptophyta --Embryophyta --Tracheophytes --Euphyllophytes --Spermatophyta --Angiosperms --Eudicots --Proteales Proteaceae Grevillea
Family	Proteaceae
Genus	Grevillea

Location

Cultivation status	Cultivated
Country	Australia

Morphology

Habit or life form	Shrub
Light harvesting structures	Leaf, stem
Reproductive structures	Flower, perianth, androecium, gynoecium, fruit

Original image file specifications

Format	tiff
Size	13630476 bytes
Date and time image created	2005-06-16 12:36:36
Width	1828 pixels
Length	2482 pixels

[Sarah Colley's fish-bone image collection](#)

[Sarah Colley's](#) archaeological collection contains images of fish-bones and provides support for her research and that of her project partners. One of Sarah's research interests concerns the archaeological study of fish and fishing in Sydney before and after 1788. The collection comprises 812 images.

Screenshots from Sarah Colley's fish-bone collection

[Sarah Colley's](#) archaeological collection contains images of fish-bones and provides support for her research and that of her project partners. One of Sarah's research interests concerns the archaeological study of fish and fishing in Sydney before and after 1788. At this time the collection is available for use by Sarah's project partners, though in future it will become openly accessible. The collection comprises 487 images.

- [Collection home page](#)
- [About the collection](#)
- [Search page](#)
- [Browse page](#)
- [Browse all by facet](#)
- [Full record](#)
- [Full record with zoomable image](#)
- [Full record print view](#)

Collection home page

A static html page providing an entry point to the collection. Useful for promotion and marketing.

The University of Sydney

Archeological fish-bone images

University Home **Collection Home** Library About Contact

Search

- Search the collection

About

- The project
- Sarah's research
- Technology
- Contacts

200001

200002

200101

Archeological fish-bone images (Draft site, in progress)

A partnership initiative of the University of Sydney Library and Dr. Sarah Colley, to support archaeological research. Search or browse the collection.

Presentation of this collection is an initiative of the University of Sydney Library in partnership with Dr. Sarah Colley, University of Sydney Archaeology Department. Digital objects and metadata provided by Dr. Colley. Site created by Rowan Brownlee, Digital Project Analyst, University of Sydney Library, using the eXtensible Text Framework (XTF).

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About the collection

A static html page with background information.



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Archaeological fish-bone images

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Search
→ [Search the collection](#)

About
→ [The project](#)
→ [Sarah's research](#)
→ [Technology](#)
→ [Contacts](#)

About the project
A partnership initiative of the University of Sydney Library and Dr. Sarah Colley, to support archaeological research.

Sarah's research
Sarah's research interests include the archaeological study of fish and fishing in Sydney before and after AD 1788, the development of digital image banks for identification of fish remains, as well as teaching and learning, professional practice and the construction of archaeological knowledge.

Technology enabling online access
The site was developed by Rowan Brownlee, using the eXtensible Text Framework (XTF).

For more information about the Archaeological fish-bone images project, contact

Dr. Sarah Colley
Senior Lecturer,
Department of Archaeology
University of Sydney.
Phone: +61 2 9351 3035
Email: Sarah.Colley@usyd.edu.au
Web: [Academic staff](#)

Rowan Brownlee
Digital Project Analyst,
Sydney eScholarship
University of Sydney Library
F03 University of Sydney NSW 2006
Phone: +61 2 9036 6450
Email: r.brownlee@library.usyd.edu.au
Web: [Digital Project Analyst](#)

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Search page


The University of Sydney
Archaeological fish-bone images

[University Home](#) | [Library](#) | [Collection Home](#) | [About](#) | [Contact](#)

Keyword
Advanced
Browse

Examples:

labridae	Search keywords for 'labridae'
labridae &choerodus	Search keywords for 'labridae' AND 'choerodus'
"blue groper"	Search keywords for the phrase 'blue groper'
belon*	Search keywords for the string 'belon' followed by 0 or more characters
belonida?	Search keywords for the string 'belonida' followed by a single character

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Browse page


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Keyword
Advanced
Browse

Browse images by...

[Facet](#) | [Family](#) | [Genus](#) | [Species](#)

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Browse all by facet

The University of Sydney

Archaeological fish-bone images

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[Citations \(0\)](#)

Browse by: All
Results: 487 Items

[Modify Search](#) | [New Search](#)
[Browse by Facet](#) | [Family](#) | [Genus](#) | [Species](#)

Sorted by: relevance

Page: 1 2 3 4 5 ... Next

Taxonomy

- Anguillidae (22)
- Arripidae (8)
- Belontiidae (7)
- Berycidae (15)
- Bothidae (33)
- Carangidae (47)
- Cyprinidae (8)
- Gempylidae (5)
- Hemiramphidae (14)
- Labridae (59)
- Monacanthidae (10)
- Mugilidae (24)
- Muraenidae (3)
- Platycephalidae (41)
- Pomatomidae (12)
- Sciaenidae (22)
- Scombridae (7)
- Serranidae (46)
- Sillaginidae (25)
- Sparidae (47)
- Sphyrnaeidae (8)
- Zeidae (24)

Common-name

- Barracouta (5)
- Barracuda (8)
- Black Rock Cod (13)
- Black-barred Garfish (2)
- Blue Groper (29)

[more](#)

Group-label

- Alfonsinos (15)
- Australian salmon (8)
- Barracoutas (5)
- Barracudas (8)
- Carps (8)

[more](#)

Anatomy-label

- Articular (56)
- Caudal Vertebra (29)
- Complete Skull (Neurocranium) (63)
- Dentary (99)
- Dorsal spine (5)

[more](#)

Anatomy-view

- bottom (1)
- external (62)
- front/back (23)
- internal (75)
- joint surface (1)

[more](#)

1


Image ID: 200001 [Add](#)

Family: Belontiidae

Genus: Tylosurus

Species: acus

Common name: Longtom

Collection: Department of Archaeology and Natural History, Research School of Pacific and Asian Studies, Australian National University, Canberra.

Similar Items: [Find](#)

2


Image ID: 200002 [Add](#)

Family: Zeidae

Genus: Cyttus

Species: australis

Common name: Silver Dory

Collection: Department of Archaeology and Natural History, Research School of Pacific and Asian Studies, Australian National University, Canberra.

Similar Items: [Find](#)

3


Image ID: 200003 [Add](#)

Family: Carangidae

Genus: Caranx

Species: ignobilis

Common name: Giant Trevally

Collection: Department of Archaeology and Natural History, Research School of Pacific and Asian Studies, Australian National University, Canberra.

Similar Items: [Find](#)

4


Image ID: 200004 [Add](#)

Family: Sphyrnaeidae

Genus: Agriospisphaena

Species: barracuda

Common name: Barracuda

Collection: Department of Archaeology and Natural History, Research School of Pacific and Asian Studies, Australian National University, Canberra.

Similar Items: [Find](#)

5


Image ID: 200005 [Add](#)

Family: Bothidae

Genus: Pseudorhombus

Species: arsius

Common name: Largetooth Flounder

Collection: Department of Archaeology and Natural History, Research School of Pacific and Asian Studies, Australian National University, Canberra.

Similar Items: [Find](#)

6


Image ID: 200006 [Add](#)

Family: Muraenidae

Full record


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Citation | Print View

Full record display

Download a powerpoint or web image, or zoom a full-sized image.



Image reference number	200001
Family	Belonidae
Genus	Tylosurus
Species	acus
Common name	Longtom
Specimen origin	Modern reference specimen
Taxon group	Longtoms
Taxon code	BEL-TY-AC
Taxon group code	BEL-ALL
Anatomy label	Maxilla
Anatomy view	not specified
Anatomy code	MAX
Collection	Department of Archaeology and Natural History, Research School of Pacific and Asian Studies, Australian National University, Canberra.
Collection ID 1	182
Collection ID 2	307
Collection code	ANU
Date photographed	1/06/2007
Photographed by	Russell Workman

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Full record with zoomable image


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Archaeological fish-bone images

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Full record with zoomified image

Zoom by clicking on the image, or use the controls at the base. Scroll to read descriptive information.

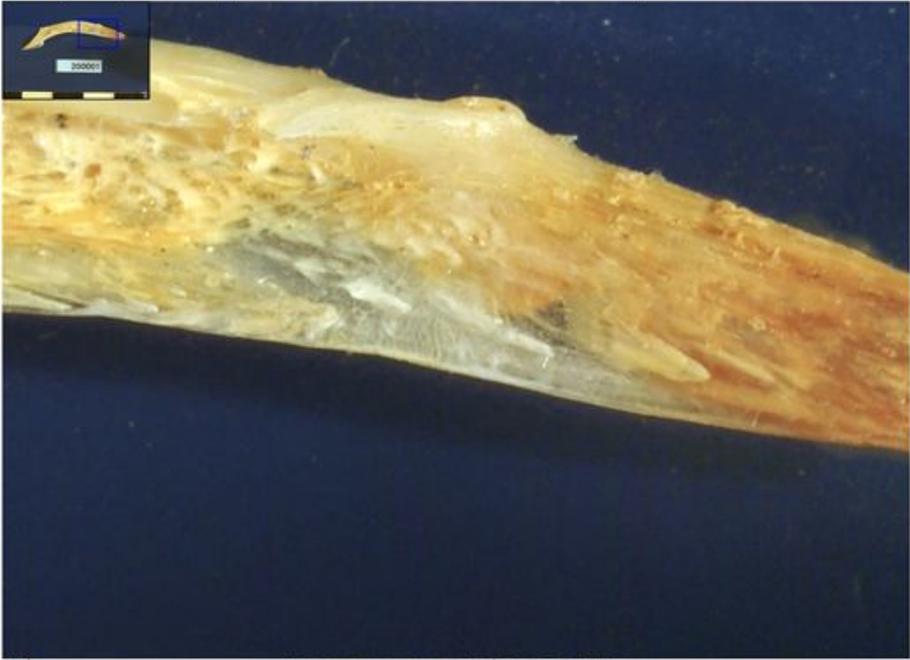


Image reference number	200001
Family	Belonidae
Genus	Tylosurus
Species	acus
Common name	Longtom
Specimen origin	Modern reference specimen
Taxon group	Longtoms
Taxon code	BEL-TY-AC
Taxon group code	BEL-ALL
Anatomy label	Maxilla
Anatomy view	not specified
Anatomy code	MAX
Collection	Department of Archaeology and Natural History, Research School of Pacific and Asian Studies, Australian National University, Canberra.
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Full record print view

Full record: Print view
 Source: Archaeological fish-bone images
 http://localhost/xtf-fish/view?docId=records/fishbone_200001.xml;doc.view=full_record



Image reference number	200001
Family	Belontiidae
Genus	Tylosurus
Species	acus
Common name	Longtom
Specimen origin	Modern reference specimen
Taxon group	Longtoms
Taxon code	BEL-TY-AC
Taxon group code	BEL-ALL
Anatomy label	Maxilla
Anatomy view	not specified
Anatomy code	MAX
Collection	Department of Archaeology and Natural History, Research School of Pacific and Asian Studies, Australian National University, Canberra.
Collection ID 1	182
Collection ID 2	307
Collection code	ANU
Date photographed	1/06/2007
Photographed by	Russell Workman

Next steps and future developments

- [Harvesting and robots](#)
- [Advanced search](#)
- [Content management and relationships between content management & presentation](#)
- [Facet paging](#)
- [PDFs and powerpoints](#)
- [Packaging and downloading images and related metadata](#)
- [Other ...](#)

Harvesting and robots

This isn't something I've investigated at all, though I understand that XTF provides support for robots and OAI harvesting. I'd like to enable harvesting and discovery by Google, while ensuring that media is viewed in the context of the XTF presentation.

Advanced search

In the [advanced search](#) section I mention a couple of [eBot](#) future enhancements which are applicable to presentation of the other collections. The current eBot advanced search is quite simple and could be developed to be far more extensive and flexible. I'd like to provide dropdown lists or automatic completion for fields that employ controlled

vocabularies (such as family, genus and species). These classification elements are already related to each other through an extensive taxonomy underpinning the eBot collection, and the relationships might be exploited to provide additional support for searching. As an example, if a user wishes to search on a particular species, selection from the species category should trigger auto-population of the the family and genus fields. It would also be useful to enable the boolean 'OR' within categories such as *image type*. This would enable multiple selections from the list, to suit cases where people are interested in results comprising several image types such as *herbarium OR micrograph*.

Content management and relationships between content management & presentation

Following on from the advanced search comments above, I'd like to draw in content for dropdown lists and taxonomies from other sources. For each collection, metadata and taxonomies are maintained elsewhere by the content creators. At this stage I have a semi-automated approach to metadata and media import (for indexing and presentation), but I'm not yet importing controlled vocabularies for presentation on the search pages. For these three target collections, I'd like to automate as much as possible the process of content transfer.

Facet paging

On a brief record display screen, it's useful to be able to choose to display the first 'X' number of facets within a category (eg top 5). Having scanned the first 5 or 10, I'd like to be able to 'page' through successive sets, as an option to viewing all of the remaining facets in one hit. This may be useful in cases where there is an extensive facet list and where nesting of facets is not an option.

PDFs and powerpoints

It may be useful to enable generation of pdfs and powerpoints combining an image with its associated metadata.

Packaging and downloading images and related metadata

As an additional option to citation emailing (i.e. bookbag / my citations), it may be useful to enable downloading of packages of selected media and associated metadata.

Other...

Other activities will include investigation of alternate media presentation models and learning more about XML, XSL, text processing techniques and ways of ensuring common display across multiple browsers (eg via the [Yahoo User Interface Library](#)).

About the author

My name is Rowan Brownlee and I work in the eScholarship Division of the [University of Sydney Library](#). As [Digital Project Analyst](#) I participate in activities supporting research, learning and teaching. Lead by [Ross Coleman](#), eScholarship is a relatively new initiative which includes a [digital archive](#) and [Sydney University Press](#). The Library also has considerable experience in text encoding through the work of [Creagh Cole](#) within [SETIS](#) (Sydney Electronic Text and Imaging Service).

I have been exploring the use of XTF for searching and presenting media collections in the subject areas of plant sciences, archaeology and visual arts. Although an XSLT beginner, the outcomes have been encouraging. I am interested in helping introduce others to XTF, so I have described my application of XTF to the SCA Archive, a collection of image and video reproductions of works created by staff and students at [Sydney College of the Arts](#). My project partner is Jacqui Spedding, a ceramic artist and project manager for [SCA Images Online](#).

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