

The Livingstone Spectral Imaging Project Website: Provision, Files, and Architecture

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1.0. Website Overview and Provision

1.1. The Livingstone Spectral Imaging Project consists of four principal components:

1.1.1. Project site home: <http://livingstone.library.ucla.edu/>

1.1.2. Livingstone's 1871 Field Diary: <http://livingstone.library.ucla.edu/1871diary/>

1.1.3. Livingstone's Letter from Bambarre: <http://livingstone.library.ucla.edu/bambarre/>

1.1.4. Livingstone Spectral Image Archive: http://livingstone.library.ucla.edu/livingstone_archive/

1.2. These components are presented as an integrated, navigable website, accessible from the URLs given above. In addition, the project site home, Livingstone's 1871 Field Diary, and Livingstone's Letter from Bambarre are also available for direct download via constituent HTML and associated files through the Livingstone Spectral Image Archive (hereafter "Archive," see below).

1.3. The Archive has also been delivered (May 2013) to the David Livingstone Centre (DLC) in Blantyre, Scotland and the National Library of Scotland (NLS) in Edinburgh, Scotland on separate external hard drives. Each of these hard drives provides access to the Archive through the main livingstone_archive/ directory.

1.4. This triple provision of data, consequently, offers an enhanced opportunity for access, study, and preservation of all the Livingstone Spectral Imaging Project data.

1.5. In order to ensure consistency across all data sets, any project files subsequently updated will be both integrated into the project site and provided to the DLC and NLS with instructions for integration into respective hard drives.

2.0. Project Components in the Archive

2.1. The Archive is available both online (http://livingstone.library.ucla.edu/livingstone_archive/) and on the DLC and NLS external hard drives (livingstone_archive/). The remaining three principal project components can be found in the following Archive subdirectories:

2.1.1. Project site home: [ResearchContrib/Critical_Editions/project-site/](#)

2.1.2. Livingstone's 1871 Field Diary: [ResearchContrib/Critical_Editions/project-site/1871diary/](#)

2.1.3. Livingstone's Letter from Bambarre: [ResearchContrib/Critical_Editions/project-site/bambarre/](#)

2.2. A separate Archive subdirectory with separate documentation (see [ResearchContrib/Critical_Editions/RDF-for-NINES/](#)) also contains the RDF files used to integrate the Livingstone Spectral Imaging Project into NINES (<http://nines.org>).

3.0. Component Files and Locations

3.1. The project site home (see 1.1.1. and 2.1.1. for locations) consists of two static HTML files (index.htm and about.htm) plus a few associated files.

3.1.1. Images linked to these HTML files reside separately in the following locations:

(navigable website) <http://livingstone.library.ucla.edu/bambarre/logos/>

(Archive) [ResearchContrib/Critical_Editions/project-site/bambarre/logos/](#)

3.2. Livingstone's 1871 Field Diary (see 1.1.2. and 2.1.2. for locations) consists mainly of static HTML files plus associated files. The site guide (site_guide.htm) provides a detailed, annotated list of this component's contents; an abbreviated list of the contents appears in the left-hand-side navigation bar on each of the component's HTML pages.

3.2.1. Livingstone's 1871 Field Diary also includes four dynamic HTML files created by the UCLA Digital Library web development team (transcriptions.htm, spectral_images.htm, three_versions.htm, and search.htm).

3.2.2. The majority of files associated with these dynamic HTML files reside in the main Livingstone's 1871 Field Diary subdirectory.

3.2.3. However, a series of additional XSL, XML, and JPEG files associated with two of these dynamic HTML files (transcriptions.htm and three_versions.htm) reside in separate subdirectories in the main project directory (<http://livingstone.library.ucla.edu/>). These XSL, XML, and JPEG subdirectories are not directly accessible by the public from this location, although the latter two files sets can be viewed and/or downloaded individually from elsewhere (livingstone.library.ucla.edu/1871diary/transcriptions.htm and livingstone.library.ucla.edu/1871diary/three_versions.htm)

3.2.4. The XSL, XML, and JPEG subdirectories and all files contained therein are available through the Archive: [ResearchContrib/Critical_Editions/project-site/xslt/](#) and [ResearchContrib/Critical_Editions/project-site/zoomify/](#).

3.3. Livingstone's Letter from Bambarre (see 1.1.3. and 2.1.3. for locations) consists wholly of static HTML files plus associated files. A fairly comprehensive list of this component's contents appears in the left-hand-side navigation bar on each of the component's HTML pages.

3.3.1 Two files associated with this component (bambarre_letter.pdf and bambarre_letter.xml) reside separately in the following location:

(navigable website) <http://livingstone.library.ucla.edu/1871diary/documents/>

(Archive) ResearchContrib/Critical_Editions/project-site/1871diary/documents/

3.4. The Livingstone Spectral Image Archive (see 1.1.4. and 2.1. for locations) consists wholly of static files of various types including TIFF, XML, TXT, MD5, HTML, JPEG, and PDF. A general, annotated overview of this component's contents is available from its home page (index.htm).

4.0. Application Architecture

4.1. The Livingstone Spectral Imaging Project relies on a number of external applications in order to function and be accessible from the web.

4.2. A JPEG of a diagram of the project's application architecture is available from the following locations:

(navigable website)

http://livingstone.library.ucla.edu/1871diary/documents/06_Diagram_Livingstone_Wesbite_Architecture.jpg

(Archive) ResearchContrib/Critical_Editions/project-site/1871diary/documents/06_Diagram_Livingstone_Wesbite_Architecture.jpg

4.3. The application architecture as set out in this JPEG can roughly be described as follows:

4.3.1. The "raw content" consists of XML, TIFF, static HTML, and CSS files.

4.3.2. The archive browser provides the "webbifying" of the file system.

4.3.3. Javascript enables page turning.

4.3.4. SOLR enables search and returning.

4.3.5. XSLT displays the images and text.

4.3.6. Flash displays the text.

4.3.7. Apache unites all the components of the website.