A Visual Index to Maps and Photographs of Redlands, California

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University of Redlands
Libraries

Armacost Library
- Melissa Cardenas-Dow
- Shana Higgins

A. K. Smiley Public Library
- Nathan Gonzales
**Current Issues**

Hard to determine from entry where the items are positioned

<table>
<thead>
<tr>
<th>Search Results</th>
</tr>
</thead>
<tbody>
<tr>
<td>182 titles matched: redlands Map</td>
</tr>
<tr>
<td>1. East Redlands sheet no. 40 adjacent north [map].</td>
</tr>
<tr>
<td>Format: [map].</td>
</tr>
<tr>
<td>Holds: 0</td>
</tr>
<tr>
<td>Location: Special Collections</td>
</tr>
<tr>
<td>Collection: Heritage Room - CA Maps</td>
</tr>
<tr>
<td>Call No.: E 140.14 EAS Box VI</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Armacost Results</th>
</tr>
</thead>
<tbody>
<tr>
<td>Other relevant titles entries 2-11</td>
</tr>
<tr>
<td>2. Emergency assessment of debris-flow hazards from basins burned by the Piru, Simi, and Verdale fires</td>
</tr>
<tr>
<td>LOCATION</td>
</tr>
<tr>
<td>U.S. Documents-Internet</td>
</tr>
<tr>
<td>Electronic Resources</td>
</tr>
<tr>
<td></td>
</tr>
</tbody>
</table>
Hypercities
Alexandria Digital Library
David Rumsey Collection
Google Earth – Google Maps
Current Issues (cont.)

- Difficult to find
- Requires staff help
Objective

A graphical interface to use in a browser to display maps and photographs
Take -

The maps and photographs

Prepare the data for use by a viewer application
Maps used for the prototype

<table>
<thead>
<tr>
<th>Sheet Name</th>
<th>Year</th>
<th>Library Call Number</th>
<th>Publisher</th>
<th>Scale</th>
<th>Map URL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Map of the City of Redlands</td>
<td>1890</td>
<td>Smiley E 120:45 MAP</td>
<td>I. Ford, C.E.,</td>
<td>1:9,600</td>
<td>http:// . . .</td>
</tr>
</tbody>
</table>

* Some maps did not have a scale present, it was estimated (est.)

** The remainder of the footprints are other Sheet Numbers from the Sanborn Series
<table>
<thead>
<tr>
<th>Picture Name</th>
<th>PhotoYear</th>
<th>Pic Comment</th>
<th>Library</th>
<th>Copyright **</th>
<th>PhotoURL</th>
</tr>
</thead>
<tbody>
<tr>
<td>State Street west cira 1887</td>
<td>1887 *</td>
<td>1880s. This is State Street looking west between Firth and Sixth Street.</td>
<td>A. K. Smiley Library</td>
<td>Copyright: Picture</td>
<td>http:// . . .</td>
</tr>
<tr>
<td>State Street west cira 1896</td>
<td>1896</td>
<td>The southwest corner of State and Orange Streets as it looked in 1896. For 10 years, mules of Redlands Street Railway pulled . . .</td>
<td>A. K. Smiley Library</td>
<td>Copyright: Picture</td>
<td>http:// . . .</td>
</tr>
<tr>
<td>Orange Street cira 1905</td>
<td>1900 *</td>
<td>From City Hall, formerly the YMCA building, this view of Orange Street around 1900 looks north. The Fishet Building is . . .</td>
<td>A. K. Smiley Library</td>
<td>Copyright: Picture</td>
<td>http:// . . .</td>
</tr>
<tr>
<td>Orange Street cira 1925</td>
<td>1925 *</td>
<td>This is Orange Street in the mid-1920s seen from the second floor of the Union Bank. This view looks north to the intersection . . .</td>
<td>A. K. Smiley Library</td>
<td>Copyright: Picture</td>
<td>http:// . . .</td>
</tr>
<tr>
<td>President McKinley at Smiley Library</td>
<td>1901</td>
<td>President McKinley's carriage passes in front of Smiley Library.</td>
<td>A. K. Smiley Library</td>
<td>Copyright: Picture</td>
<td>http:// . . .</td>
</tr>
<tr>
<td>McKinley School</td>
<td>1910 *</td>
<td>McKinley School, at the southeast corner of Olive and Center Street, was built in 1903 and razed in 1937.</td>
<td>A. K. Smiley Library</td>
<td>Copyright: Picture</td>
<td>http:// . . .</td>
</tr>
<tr>
<td>University of Redlands Chapel</td>
<td>1957</td>
<td>The Memorial Chapel, listed in the National Register of Historic Places, was designed by architect and alumnus Herbert Powell . . .</td>
<td>A. K. Smiley Library</td>
<td>Copyright: Picture</td>
<td>http:// . . .</td>
</tr>
<tr>
<td>Casa Loma Hotel</td>
<td>Unknown</td>
<td>This is a sketch of the Casa Loma Hotel created by Joseph Stoddard. This picture amongs others were put into a book . . .</td>
<td>Armacost Library</td>
<td>Pictures can be found on page 26 in the . . .</td>
<td>http:// . . .</td>
</tr>
<tr>
<td>Eureka Street near Brookside Ave</td>
<td>Unknown</td>
<td>Here is a neighborhood on Eureka Street near Brookside Ave.</td>
<td>A. K. Smiley Library</td>
<td>Pictures can be found on page 108 in the . . .</td>
<td>http:// . . .</td>
</tr>
</tbody>
</table>

* These are the approximate years
** The pages are part of the copyright found in the popup
Prepare the data

- Scanning
- Presentation modification
- Locate on the earth
- Create all essential files
- Required software
**Scanning**

- **Photographs**
  - Small format scanner

- **Maps**
  - Large format scanner
Make Adjustments

- Rotate
- Crop to map size
- Modify color
  - Brightness
  - Contrast
Make Adjustments (cont.)

- Rotate
- Modify color (2x)
  - Used ERDAS
Locate on the Earth

🌟 Photographs
  – Geolocate
Locate on the Earth (cont.)

Maps

- Georeference
Essential files
Project Geodatabases
Required Software

Preparing maps and photographs

– Scanner software

– Photoshop – map adjustments

– ArcMap – georeference/geolocate, rectification
Required Software (cont.)

🌟 Further processing
  – ArcSDE – *SDE feature classes*

  – ArcGIS Server – *Feature and Map Services*
Required Software (cont.)

**Viewer application**
- Flash Builder – *create/sustain the viewer code*

**Library user**
- Flash – *includes Flash Player*
- Browser – *Internet Explorer, Firefox, Chrome, Safari, Opera*
Viewer Application

Location of viewer application

Viewer framework

Instruments of the application
  – Scanned maps
  – Footprints
  – Photographs

Display on the library user interface
Library interface - Armacost
Library interface - Smiley
Initial Prototype Viewer Display

Welcome to the Library Map and Photograph Viewer

This tool has been created for use by the users of the University of Redlands, Armacost Library and the City of Redlands, A.K. Smiley Public Library.

This tool enables the library users to see the maps and photographs that are available at either library. At this time the tool is a prototype and only has a few maps over the Redlands area.

To see how to use the Library viewer application click on the Library Viewer Instructions button in the upper right corner of the viewer.
Initial Display (Instructions)

Instructions to use the Historic Map and Photograph Viewer

To zoom and pan around the application:
- Click on the + or - in the navigation bar on the left to zoom in and out
- Click on the map and drag the cursor across the screen to pan

To preview a scanned map:
- Select a map in the upper right window
- The map information of selected map appears in the window below
- The scanned map, if available, will display in main window
- To see a new scanned map, select a new map in the upper right window

To preview a photograph:
- Click on one of the red diamonds on the main map
- A popup window will appear with the picture and supporting information

OK
Footprints in viewer
Map Information Window
Footprints only
Viewing the photographs

A Visual Interface for the Historic Map and Photographs at the University of Redlands, Armacost and the City of Redlands, Smiley Public Library

University of Redlands Memorial Chapel

Year of Photograph: 1957

Library: A.K. Smiley Library

Picture description: The Memorial Chapel, listed in the National Register of Historic Places, was designed by architect and alumnus Herbert Powell and built in 1927. The Georgian tower is framed in the background by Mt. Harrison and the San Bernardino mountain ranges with a dusting of winter snow.

Copyright: Picture can be found on page 111 in the book "Images of America: Redlands" Copyright ©2004 by A.K. Smiley Public Library
Viewer Application Demonstration
Benefits

- Easier to find what maps are offered
- Easier to see what photographs are available
- Easier to see the location of the maps and photographs
- Easier on staff to help patrons
- Better serve the community
**Overall Summary**

- Acquire maps and photographs
- Scan the sources
- Georeference/geolocate
  - Determine proper sequence for preparing source
- Finalize files
- Build the viewer application
  - Create the framework
  - Develop the working elements
Imminent Work (before 12/15)

- Incorporate any required changes
- Resolve bureaucratic and technical issues requiring hosting server(s)
- Moving application to hosting server
  - Make appropriate changes
    - Code
    - URL addresses in attribute fields
    - Final code compilation

Pack my bags!
Future work (by a gullible C21er)

.expand the application

Enhancements to the Viewer

- Add an overview map
- Add time slider
- For photos add directional indicator
- Display in side panel only those maps in the main window
- Select rectangle footprint and retrieve map name

Full Implementation with the libraries
Thank You

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