Tools for Research in the Field & Archive

UCLA Library Research Workshop Series Fall 2019

Anthony Caldwell
What is this workshop about?
Issues Encountered with my own projects
Issues others have shared
Who am I?

Context for this workshop
Two Projects
Project 1
Reconstruction of the Pharos Lighthouse of Alexandria
### Databases

**Sources**

<table>
<thead>
<tr>
<th>Name</th>
<th>Dates</th>
<th>Notes</th>
<th>Occupation</th>
<th>Footnotes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ali</td>
<td>194-96 AD</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ali</td>
<td>194-96 AD</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**ETC**

UCLA EXPERIENTIAL TECHNOLOGIES CENTER
Spatial Data
Project 2
Los Angeles Historic Theatres
The Field
Special Collections
Online Archives
Archive vs Field
The Archive

Specific location

Controlled Environment

Open Access

Limited Access

Very Limited Access
The Field

Just about anywhere

Uncontrolled Environment

Access issues
Collection Methods
Cameras

(still and movie)
Specialized Instruments
Drones
Pre-Captured
Planning

The goal is to work efficiently

What will you do with the information?

Where is it?

What form is it in?

How long will it take?

How long do you have?

What tools can you bring?

Will you have internet access?
Welcome:
- TaskPaper knows about projects, tasks, notes, and tags.
- It auto-formats these items so that your lists are easier to read.
- Delete this text if you wish.

To Create Items:
- To create a task.
- To create a project.
- To create a tag.

To Organize Items:
- To indent items.
- To un-indent items.
- To mark a task.

To Fold, Focus, and Filter Items:
- To fold/unfold an item click the dot to the left of the item.
- To focus on a single project select it in the sidebar.
- To filter your list enter a search in the toolbar search field.

https://www.taskpaper.com

Task Manger
Workflow
Simple File Tracking

Outliner and Folders

  - Box 2
    - Folder 13
      - Fox Phoenix Theatre, 1930-1931 - Phoenix
        - Auditorium, proscenium8 x 10.
        - The walls and ceiling are decorated with swirling Art Deco and Zig-Zag motifs, accented by a pair of leaping mythical gazelles above the proscenium. Above them a gilded sunburst spreads out over the ceiling, an ornament incorporating the air intake grille of the ventilation system. The fire curtain displays an abstracted version of the Arizona desert landscape. Gilded grilles echoing the design of the box office and topped by sunbursts flank the proscenium above the front exits. The theatre organ, to accompany silent motion pictures, is at the front of the auditorium.
      - Construction8 x 10.
        - This photograph of the theatre under construction shows the auditorium space offset to the left, belying the symmetry of the façade.
      - Mezzanine 8 x 10.
        - The foyer ceiling is decorated with large-scale Art Deco designs abstracted from leaf, flower, sun and wave forms. The arched ceiling is squared off and accented by wooden moldings forming broad ribs. Furniture, mirror and lights are all squared off with cut corners, contrasting with the curving forms painted on the ceiling. Even the carpet design exhibits angular diagonals.
  - Folder 14
    - Fox Redondo Theatre, 1937-1939 - Redondo Beach
      - Perspective sketch, variant design8 x 10.
        - In this concept drawing, Lee proposes another more elaborate Streamline Moderne design for the Fox Redondo Beach remodel.
      - Exterior before remodel5 x 7.
        - The old Fox Redondo Beach theatre was slated for a remodel and Lee presented two concepts. This photo shows the building to be remodeled. Written on back of photo: Theatre as it appears from main business section of Redondo.
Advanced File Tracking

Folder and Note-taking

The walls and ceiling are decorated with swirling Art Deco and Zig-Zag motifs, accented by a pair of leaping mythical gazelles above the proscenium. Above them a gilded sunburst spreads out over the ceiling, an ornament incorporating the air intake grille of the ventilation system. The fire curtain displays an abstracted version of the Arizona desert landscape. Gilded grilles echoing the design of the box office and topped by sunbursts flank the proscenium above the front exits. The theatre organ, to accompany silent motion pictures, is at the front of the auditorium.
Files with previews

Operating System
Information and Document Management
<table>
<thead>
<tr>
<th>Title</th>
<th>Creator</th>
</tr>
</thead>
<tbody>
<tr>
<td>Another link between archaeology and anthropology: Virtual anthropology</td>
<td>Weber, Gerhard W.</td>
</tr>
<tr>
<td>Archaeology and biological anthropology share research interests and numerous methods for field work. Both profit from collaborative work and diffusion of know-how. The last two decades have seen a technical revolution in biological anthropology: Virtual Anthropology (VA). It exploits digital technologies and brings together experts from different domains. Using volume and surface data from scanning processes, VA allows applying advanced shape and form analysis, higher reproducibility, offers permanent availability of virtual objects, and easy data exchange. The six main areas of VA including digitisation, exposing hidden structures, comparing shapes and forms, reconstructing specimens, materialising electronic specimens, and sharing data are introduced in this paper. Many overlaps with archaeological problems are highlighted and potential application areas are emphasised. The article provides a 3D human cranium model and a movie flying around and through the virtual copy of one famous archaeological object: the Venus from Willendorf, Austria.</td>
<td></td>
</tr>
</tbody>
</table>
Backup

Plan this strategy carefully!

Make sure all of your data syncs to the cloud or you have multiple copies on different media.
Tools
Outliners

A. Introduction
   a. Introduction to the broad topic
   b. Specific topic
   c. Thesis statement

B. Body Paragraphs
   a. Body paragraph #1—First aspect that’s similar or different
      i. Subject #1
         1. Detail #1
         2. Detail #2
      ii. Subject #2
         1. Detail #1
         2. Detail #2
   b. Body paragraph #2—Second aspect that’s similar or different
      i. Subject #1
         1. Detail #1
         2. Detail #2
      ii. Subject #2
         1. Detail #1
         2. Detail #2
   c. Body paragraph #3—Third aspect that’s similar or different
      i. Subject #1
         1. Detail #1
         2. Detail #2
      ii. Subject #2
         1. Detail #1
         2. Detail #2

C. Conclusion
   a. Summary of main points—Restate thesis while synthesizing information from body paragraphs
<table>
<thead>
<tr>
<th>Trail</th>
<th>Link</th>
<th>Distance</th>
<th>Round Trip Time</th>
</tr>
</thead>
<tbody>
<tr>
<td>Longmire</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Twin Firs Loop Trail</td>
<td>.4 mi loop</td>
<td>20m</td>
<td></td>
</tr>
<tr>
<td>Passes through old growth forest Trailhead 2 miles west of Longmire</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>My Notes: Really cool hike with Brooke. She wants to do it again. She saw a rabbit.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Trail of the Shadows</td>
<td>.7 mi loop</td>
<td>20m</td>
<td></td>
</tr>
<tr>
<td>Replica of an early homestead cabin Lots of animals? Trailhead across from National park Inn at Longmire</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>My Notes: Way too long for Brooke's hiking attention span.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Rampart Ridge Trail</td>
<td>4.5 mi loop</td>
<td>2.5h</td>
<td></td>
</tr>
<tr>
<td>Ridge top vista views Trailhead: Follow Trail of the Shadows to trail junction</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>My Notes: Way too long for Brooke's hiking attention span.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Paradise</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Nisqually Vista Trail</td>
<td>1.2 mi loop</td>
<td>45m</td>
<td></td>
</tr>
<tr>
<td>This was cool</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Bench &amp; Snow Lakes Trail Trail</td>
<td>2.5 mi loop</td>
<td>2h</td>
<td></td>
</tr>
<tr>
<td>Ohanapecosh</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Life Systems Trail – The Forests &amp; Springs of Ohanapecosh</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>.5 mi loop</td>
<td>30m</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Fox Phoenix Theatre, 1930-1931 - Phoenix

Auditorium, proscenium 8 x 10.

- The walls and ceiling are decorated with swirling Art Deco and Zig-Zag motifs, accented by a pair of leaping mythical gazelles above the proscenium. Above them a gilded sunburst spreads out over the ceiling, an ornament incorporating the air intake grille of the ventilation system. The fire curtain displays an abstracted version of the Arizona desert landscape. Gilded grilles echoing the design of the box office and topped by sunbursts flank the proscenium above the front exits. The theatre organ, to accompany silent motion pictures, is at the front of the auditorium.

Construction 8 x 10.

- This photograph of the theatre under construction shows the auditorium space offset to the left, belying the symmetry of the façade.

Mezzanine 76 x 10.

- The foyer ceiling is decorated with large-scale Art Deco designs abstracted from leaf, flower, sun and wave forms. The arched ceiling is squared off and accentuated by wooden moldings forming broad ribs. Furniture, mirror and lights are all squared off with cut corners, contrasting with the curving forms painted on the ceiling. Even the carpet design exhibits angular diagonals.

Fox Redondo Theatre, 1937-1939 - Redondo Beach

Perspective sketch, variant design 8 x 10.

- In this concept drawing, Lee proposes another more elaborate Streamline Moderne design for the Fox Redondo Beach remodel.

Exterior before remode 5 x 7.

- The old Fox Redondo Beach theatre...
<table>
<thead>
<tr>
<th>Topic</th>
<th>Priority</th>
<th>Duration</th>
</tr>
</thead>
<tbody>
<tr>
<td>Release 2.0</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Multicolumn support</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Printing</td>
<td>1</td>
<td>1 day</td>
</tr>
<tr>
<td>Export multicolumn document to all formats</td>
<td>1</td>
<td>3 days</td>
</tr>
<tr>
<td>Inline notes</td>
<td>2</td>
<td>3 days</td>
</tr>
<tr>
<td>Import from other tools (OPML, etc...)</td>
<td>2</td>
<td>2 days</td>
</tr>
<tr>
<td>New website</td>
<td>3</td>
<td>1 week</td>
</tr>
<tr>
<td>Bugs</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Export list with an empty row</td>
<td>2</td>
<td>20 mins</td>
</tr>
<tr>
<td>Printing doesn’t work correctly</td>
<td>1</td>
<td>1 hour</td>
</tr>
<tr>
<td>Find + Esc = Bug</td>
<td>3</td>
<td>10 mins</td>
</tr>
<tr>
<td>Formatting of some rows can be lost</td>
<td>3</td>
<td>2 hours</td>
</tr>
<tr>
<td>Setup cannot install icon in quick launch</td>
<td>3</td>
<td>1 hour</td>
</tr>
<tr>
<td>Other bugs</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Marketing</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Feature requests</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Web Site</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ideas</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Note-taking
Trip itinerary
Monday, June 23, 2014 5:36 PM

- Book all flights
- Hotel reservation confirmation: 11 days? Parking?
- Rental car: Four door or SUV?
- Hotel conference room: Book for Tuesday 9am (confirm extra seats)
- Set up lunch catering for Tuesday
- Client hotel accommodations
- Ratings/maps: restaurants/grocery stores
- Create final guest list
- Sign up for tour of Notre Dame

Budget Spreadsheet

<table>
<thead>
<tr>
<th>Item</th>
<th>Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>Airfare</td>
<td>$2,000</td>
</tr>
<tr>
<td>Hotel</td>
<td>$3,500</td>
</tr>
<tr>
<td>Car rentals</td>
<td>$1,000</td>
</tr>
<tr>
<td>Meals</td>
<td>$800</td>
</tr>
<tr>
<td>Other expenses</td>
<td>$1,000</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>$8,300</strong></td>
</tr>
</tbody>
</table>

Meet Join at the tower @ 2pm

Mac, Windows, iPad, iPhone, Android and Web

Microsoft OneNote

Succulent Planting Ideas

Succulents have been popular in the interior decorating community, namely for their ability to spruce up a space while being easy to maintain. There are many different varieties, which makes it great for bringing in some diverse greenery into your homes or offices.

Since the wide variety of species can be overwhelming, we'll start by sharing 10 of our favorite succulents and how we like to showcase them in our interior spaces.
New Snippet

Mac, Windows, iPad, iPhone, and Android

Boostnote
https://boostnote.io
Mac iPad and iPhone

Keep it

https://reinventedsoftware.com/keepit/
**First results from the ExoMars Trace Gas Orbiter**

10 Apr 2019 at 18:00:00

New evidence of the impact of the recent planet-encompassing dust storm on water in the atmosphere, and a surprising lack of methane, are among the scientific highlights of the ExoMars Trace Gas Orbiter’s first year in orbit.

---

### Related Words

<table>
<thead>
<tr>
<th>Related Words</th>
<th>Count</th>
</tr>
</thead>
<tbody>
<tr>
<td>Trace</td>
<td>100</td>
</tr>
<tr>
<td>Planetary</td>
<td>2</td>
</tr>
<tr>
<td>Orbit</td>
<td>10</td>
</tr>
<tr>
<td>Planet</td>
<td>10</td>
</tr>
<tr>
<td>Earth</td>
<td>3</td>
</tr>
<tr>
<td>Mars</td>
<td>3</td>
</tr>
<tr>
<td>Dust</td>
<td>25</td>
</tr>
<tr>
<td>Atmosphere</td>
<td>15</td>
</tr>
<tr>
<td>Dust Storm</td>
<td>3</td>
</tr>
<tr>
<td>Storm</td>
<td>5</td>
</tr>
<tr>
<td>Methane</td>
<td>21</td>
</tr>
<tr>
<td>Evidence</td>
<td>22</td>
</tr>
<tr>
<td>Impact</td>
<td>16</td>
</tr>
<tr>
<td>Air</td>
<td>12</td>
</tr>
<tr>
<td>Water</td>
<td>20</td>
</tr>
<tr>
<td>Near</td>
<td>3</td>
</tr>
<tr>
<td>Earth</td>
<td>3</td>
</tr>
<tr>
<td>Moon</td>
<td>29</td>
</tr>
<tr>
<td>Science</td>
<td>16</td>
</tr>
<tr>
<td>Atmosphere</td>
<td>15</td>
</tr>
<tr>
<td>Mars</td>
<td>3</td>
</tr>
<tr>
<td>Earth</td>
<td>2</td>
</tr>
<tr>
<td>Water</td>
<td>3</td>
</tr>
<tr>
<td>Methane</td>
<td>2</td>
</tr>
<tr>
<td>Evidence</td>
<td>22</td>
</tr>
<tr>
<td>Impact</td>
<td>16</td>
</tr>
<tr>
<td>Science</td>
<td>1</td>
</tr>
</tbody>
</table>

---

**Mac iPad and iPhone**

**DEVONthink**

[https://www.devontechnologies.com/apps/devonthink](https://www.devontechnologies.com/apps/devonthink)
Document and Information Management
DEVONthink

Mac iPad and iPhone

https://www.devontechnologies.com/apps/devonthink
Mac, Windows, and Web

Zotero

https://www.zotero.org
Task Management

[Image of a task management interface showing various tasks and folders such as 'Administrative', 'Website maintenance', 'Buzzwords', etc.]

https://www.omnigroup.com
Welcome:
- TaskPaper knows about projects, tasks, notes, and tags.
- It auto-formats these items so that your lists are easier to read.
- Delete this text when you are ready to start your own lists.

To Create Items:
- To create a task, type a dash followed by a space. @done
- To create a project, type a line ending with a colon. @done
- To create a tag, type '@' followed by the tag's name. @done

To Organize Items:
- To indent items press the Tab key. @done
- To un-indent items press Shift-Tab. @done
- To mark a task done click leading dash. @done

To Fold, Focus, and Filter Items:
- To fold/unfold an item click the dot to the left of the item. @done
- To focus on a single project select it in the sidebar.
- To filter your list enter a search in the toolbar search field.

Mac

TaskPaper
https://www.taskpaper.com
Image Processing
Photoshop

Mac and Windows

https://www.adobe.com/products/photoshop.html
GNU Image Manipulation Program (GIMP)

https://www.gimp.org
A Better Finder Rename

https://www.publicspace.net/ABetterFinderRename/index.html
Bulk Rename Utility

https://www.bulkrenameutility.co.uk
and, in some churches, the rocking of the transverse arch pillars (Figure 1a). The pillar-rocking motion induced large differential displacements between neighboring diaphragm-arches, thus resulting in severe damage to the possible nave vaults. It is worth noting that, following the strong earthquake in the Benevento area in northern Italy in year 2004, these unconstrained differential displacements were recognized as the major cause of the ruin of the nave vaults of two churches.

Global peripheral wall overturning and excessive pillar rocking occurred when the floors, the roof and the possible peripheral ties provided insufficient confinement of the toppling seismic action, which was eventually further increased by the horizontal thrust of the wooden roof (Figure 1a, c).

In order to improve the seismic resistance of ancient buildings, different earthquake-resistant features are traditionally proposed, namely, perimeter ties or floor diaphragms. Perimeter horizontal steel ties are inadequate in the case of unfavorable length-to-thickness ratios of the transversely loaded masonry walls. In this scenario, floor and roof diaphragms are frequently proposed against peripheral wall overturning to improve the seismic resistance (Giurani and Martini, 2002; Giurani, 2004). In the case of churches or in the case of buildings having right-woods roofs, only roof diaphragms can be arranged.

In this article, the box structure solution is addressed with concern to the formation of thin roof diaphragms. The roof pitches are transformed into folded plates, which gather and transfer the roof seismic action to the shear resisting walls. In the case of long-span buildings lacking cross walls, in addition to the roof actions, the box structure also has to resist to the seismic action of both lateral crowning walls and possible diaphragm arches.

Finally, it is worth noting that the roof and floor diaphragm solutions are effective and suitable to avoid the most significant collapse modes, involving both the peripheral wall overturning and, in churches, the free or excessive rocking of the diaphragm-arch pillar system. Note that the limitation of rocking is needed to avoid any damage to the vaults due to shear deformation. Conversely, this solution may be ineffective against other failure modes, such as the wall in-plane shear sliding or the masonry out-of-plane collapse along the inventory height and between the cross walls (Magenes and Cabi, 1997; Griffin et al, 2003). Despite this deficiency, the roof and floor diaphragm solution may be adopted to repair and upgrade a great number of vulnerable buildings provided that the wall in-plane shear sliding, as well as masonry inventory out-of-plane collapse modes are less frequent and triggered by very strong earthquakes only.

INTERNATIONAL JOURNAL OF ARCHITECTURAL HERITAGE 2/1 20-146
A group of Southern California mechanical and electrical engineers today will inspect the new Los Angeles Theater as the guests of H. L. Gumbiner and S. Charles Lee, owner and architect, respectively. The tour will begin at 8 a.m. Two of the innovations in which the engineers have evinced interest are the $35,000 switchboard, said to be the largest of its kind in the world, and the dual projection device which makes passable the simultaneous showing of the picture in two places, the main auditorium and the waiting salon.
MindNode
Mac
https://mindnode.com
Mac, Windows, iPad, iPhone, Android and Web

XMind
https://www.xmind.net
Mac, Windows, and iOS

Aeon-Timeline

https://www.aeontimeline.com
Fig. 3. Rapid imaging of $[Ca^{2+}]_{\text{ic}}$ in single MIN6 β-cells. Cells infected with adenovirus expressing recombinant targeted pericam were imaged in KRB medium (22°C) with a 63x oil immersion objective using a spinning disc confocal microscope (Zeiss Axiovert with Yokogawa head controlled with Improvision Velocity software) with acquisition of a complete 3D data set (15 slices through the cell at 440 and 493 nm, 0.5 μm spacing) every 0.92 s using a Hamamatsu EM charge-coupled device camera. Acetylcholine (100 μM) and KCl (50 mM) were added as indicated at the arrows. After appropriate background correction, pseudocoloured ratio images were generated offline (A). The dashed line indicates the point of contact between two individual cells as identified morphologically under bright field illumination. (B) Apparent changes in $[Ca^{2+}]_{\text{ic}}$ in the three voxels shown are plotted; voxels 2 and 3 in the same separate represent regions in the cell interior (perinuclear) and periphery, respectively. The acquisition of the images shown in (A) (Rutter and Ravier, unpublished).

also in line with earlier studies on INS-1 cell populations expressing the much less pH sensitive probe aequorin, targeted to the ER lumen [26] and with studies in which the fluorescence of ER-trapped furantrp was assessed rapidly after the permeabilisation of β-cells pre-exposed to varying glucose concentrations [129]. Nevertheless, none of the above data are alone sufficient to eliminate the mitochondrially-targeted pericam [126,127], respectively (Fig. 4). By activating intramitochondrial dehydrogenases [131] these increases in intramitochondrial $[Ca^{2+}]$ may thus underlie reported oscillations in both mitochondrial NAD(P)H [43,132] and cytosolic ATP [11] (Fig. 4). Interestingly, however, the slow oscillations in the two compartments occurred with a clear phase shift, with the increases

https://skim-app.sourceforge.io
Questions?

Anthony Caldwell
UCLA Digital Research Consortium
Scholarly Innovation Labs
11630L Charles E. Young Research Library
sil@ucla.edu