

Automated Enhancement of Legacy Metadata in the CONTENTdm Project Client

Andrew Weidner, Metadata Librarian
UNIVERSITY of **HOUSTON** | LIBRARIES

Upper Midwest Digital Collections Conference 2014
University of St. Thomas, Minneapolis, MN

UHDL Background


UNIVERSITY of HOUSTON | LIBRARIES

Digital Library
Free online access to rare historical items from the UH Libraries and archives

Search all items Search advanced search

HOME COLLECTIONS ▾ ABOUT ▾ HELP 4 items

Highlights



Pen and Pixel
Stylishly dressed rappers, diamond encrusted jewelry, piles of cash, and champagne bottles epitomized the bling aesthetic associated with many 1990s hip hop artists. During this time, Houston-based firm Pen & Pixel Graphics, Inc. began using these visual elements to create album covers...

- Est. 2009
- CONTENTdm 6
- 60 collections
- 55,000+ images
- Metadata Upgrade started in 2013

Rationales for Metadata Upgrade

- Improve access of digital collection data in Primo
- Make our metadata interoperable with other systems
- Enhance discoverability of digital objects
- Improve display and retrieval of our digital metadata through our upcoming new UHDL interface
- Prepare for linked data environment

More Robust, Reliable and Retrievable Metadata!

Upgrade Strategy

- **Phase One:** Standardize the digital library's metadata schema and create metadata dictionary

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- **Phase Two:** Standardize collection names and update metadata fields to conform to schema (relatively easy)
- **Phase Three:** Standardize item level metadata (you want us to do what?!?!)

Phase Three Challenges

- Limitations of existing interfaces
 - No easy way to automate or batch edit legacy metadata in Project Client or CDM Administration interfaces (Catcher is a possibility)
 - Must edit item-by-item, which is time consuming and resource intensive

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- Limitations on staff time

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- Develop tools layered on top of the project client to automate key areas of the upgrade process

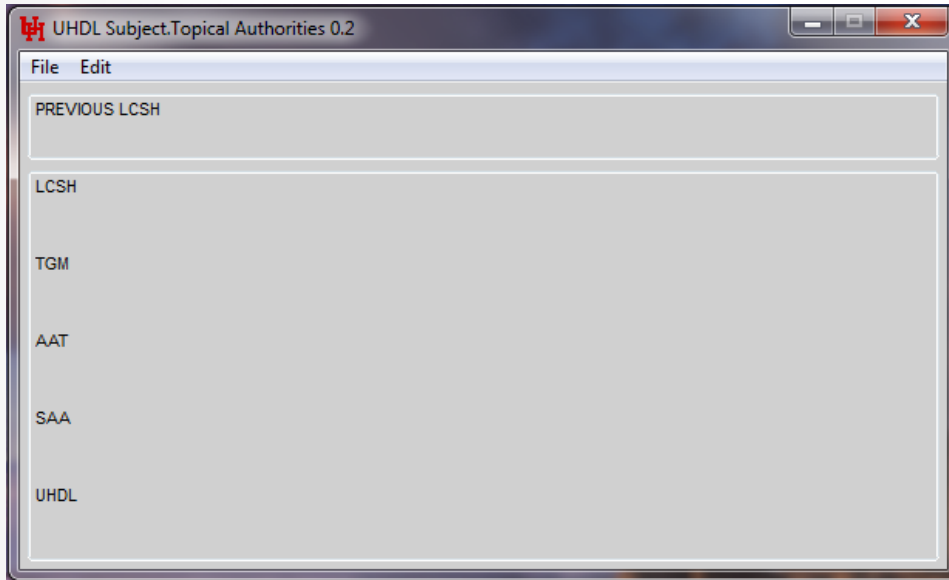
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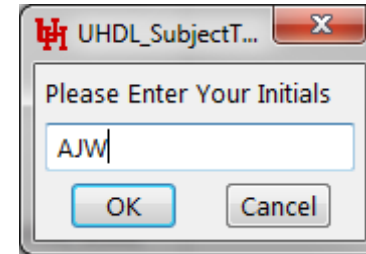
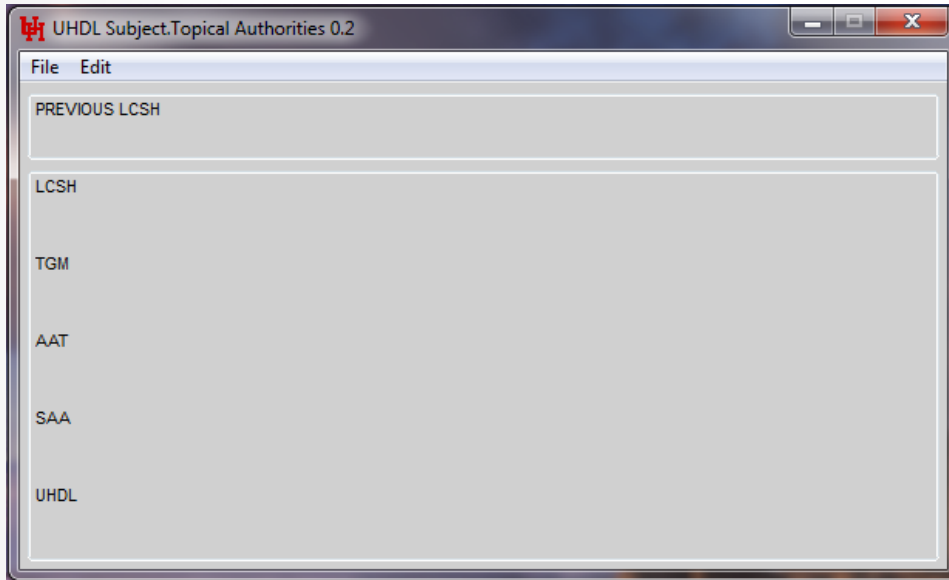
AutoHotkey

Upgrade Tools: Subject App

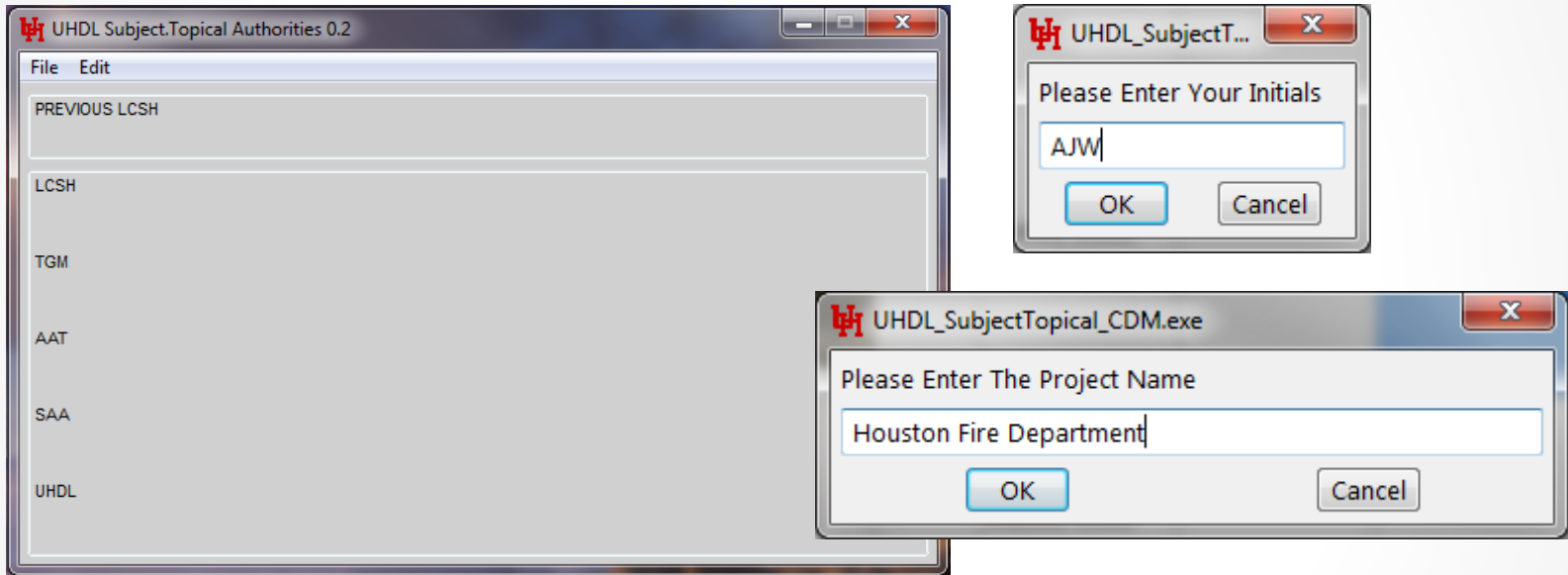


- Automates mapping from various vocabularies to LCSH
- Facilitates harvesting of URIs from LC linked data service (id.loc.gov)

Upgrade Tools: Subject App



Upgrade Tools: Subject App



Houston Fire Department

Project 1

Common Tasks

- Add Item
- Add Multiple Items
- Add Compound Objects
- Edit Existing Items

Item Tasks











- Open in Tab View
- Delete
- Upload for Approval











Other Tasks

- View Upload Manager
- Edit Metadata Template
- Edit Project Settings

Administration

- CONTENTdm Administration

	Thumbnail	Donor	Subject.Topical (LCSH)	Subject.Topical (TGM-1)	Subject.Topical (AAT)	Subject.Topical (SAA)	Subject.Topical (Local)	Subject.Name (LCNAF)	Subject (HOT)
 <input type="checkbox"/>		Mellott, Scott;	Fire fighters; Funeral rites and ceremonies		firefighters; funerals;				
 <input type="checkbox"/>		Mellott, Scott;			floods (natural events); firefighters; fire engines;				
 <input type="checkbox"/>		Mellott, Scott;			firefighters; fires;				
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Houston Fire Department

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floods (natural events);
firefighters; fire engines;



- ASK A LIBRARIAN
- DIGITAL COLLECTIONS
- LIBRARY CATALOGS

Search Search Loc.gov

The Library of Congress > Linked Data Service > Search Results

Search Results

Do you need [assistance with your search?](#)

Search

floods (natural events)

- All
- LC Subject Headings**
- LC Name Authority File
- LC Classification
- LC Children's Subject Headings

****Please Note:** LC Classification entries are not included in general search results. You must explicitly select LC Classification in order to search the scheme. This is temporary while the impact of adding LCC to the current system is better understood.

[Search](#) [Reset](#)

Previous 1 Next

Label	Vocabulary	Concept Type	Subdivision Type	Identifier
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Previous 1 2 3 4 5 Next

	Label	Vocabulary	Concept Type	Subdivision Type	Identifier
1.	Floods Flooding ; Inundations	LC Subject Headings	Topic		sh85049168
2.	Floods in literature	LC Subject Headings	Topic		sh2004004831



- ASK A LIBRARIAN
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Search Search Loc.gov

The Library of Congress > Linked Data Service > LC Subject Headings

Floods

From [Library of Congress Subject Headings](#)

- Details
- Visualization
- Suggest Terminology

Floods

URI(s)

- > <http://id.loc.gov/authorities/subjects/sh85049168>
- > <info:lc/authorities/sh85049168>
- > <http://id.loc.gov/authorities/sh85049168#concept>

Instance Of

- > [MADS/RDF Topic](#)
- > [MADS/RDF Authority](#)
- > [SKOS Concept](#)

Scheme Membership(s)

- > [Library of Congress Subject Headings](#)

Collection Membership(s)

- > [LCSH Collection - Authorized Headings](#)
- > [LCSH Collection - General Collection](#)



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Authorized Term

floods (natural events)

Enter an authorized term:

OK Cancel



ASK A LIBRARIAN DIGITAL COLLECTIONS
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Floods

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Houston Fire Department

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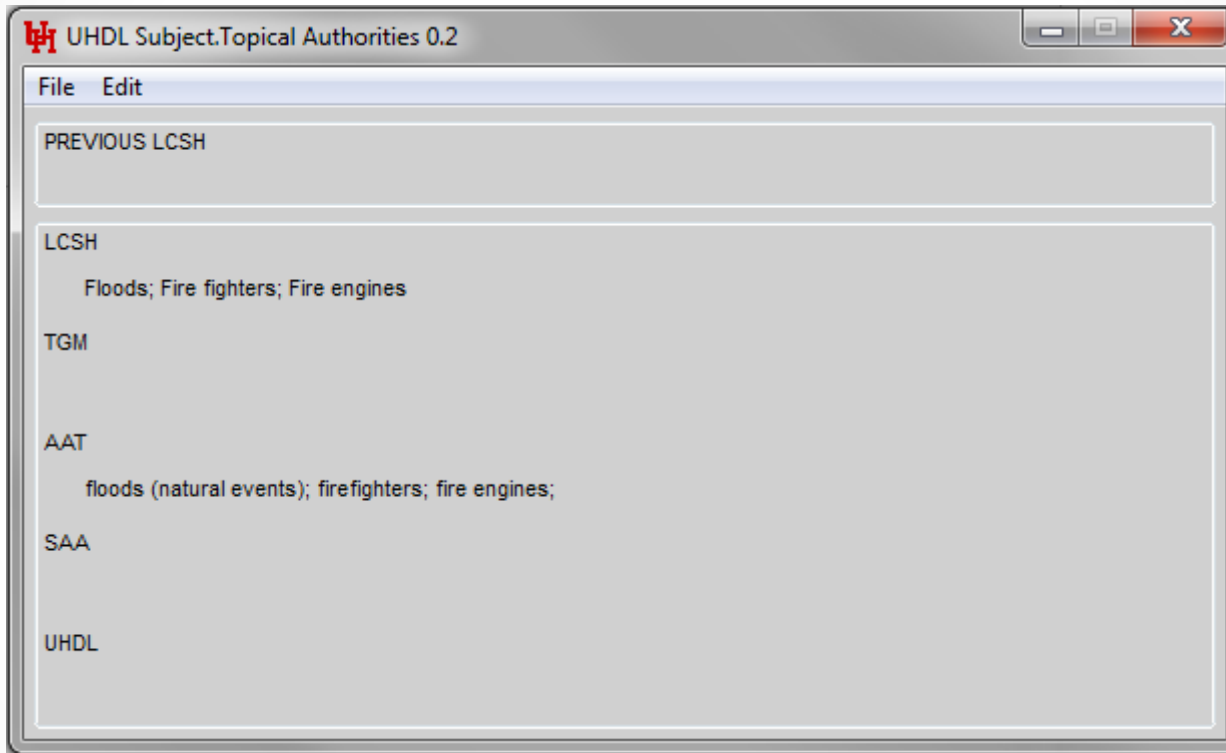
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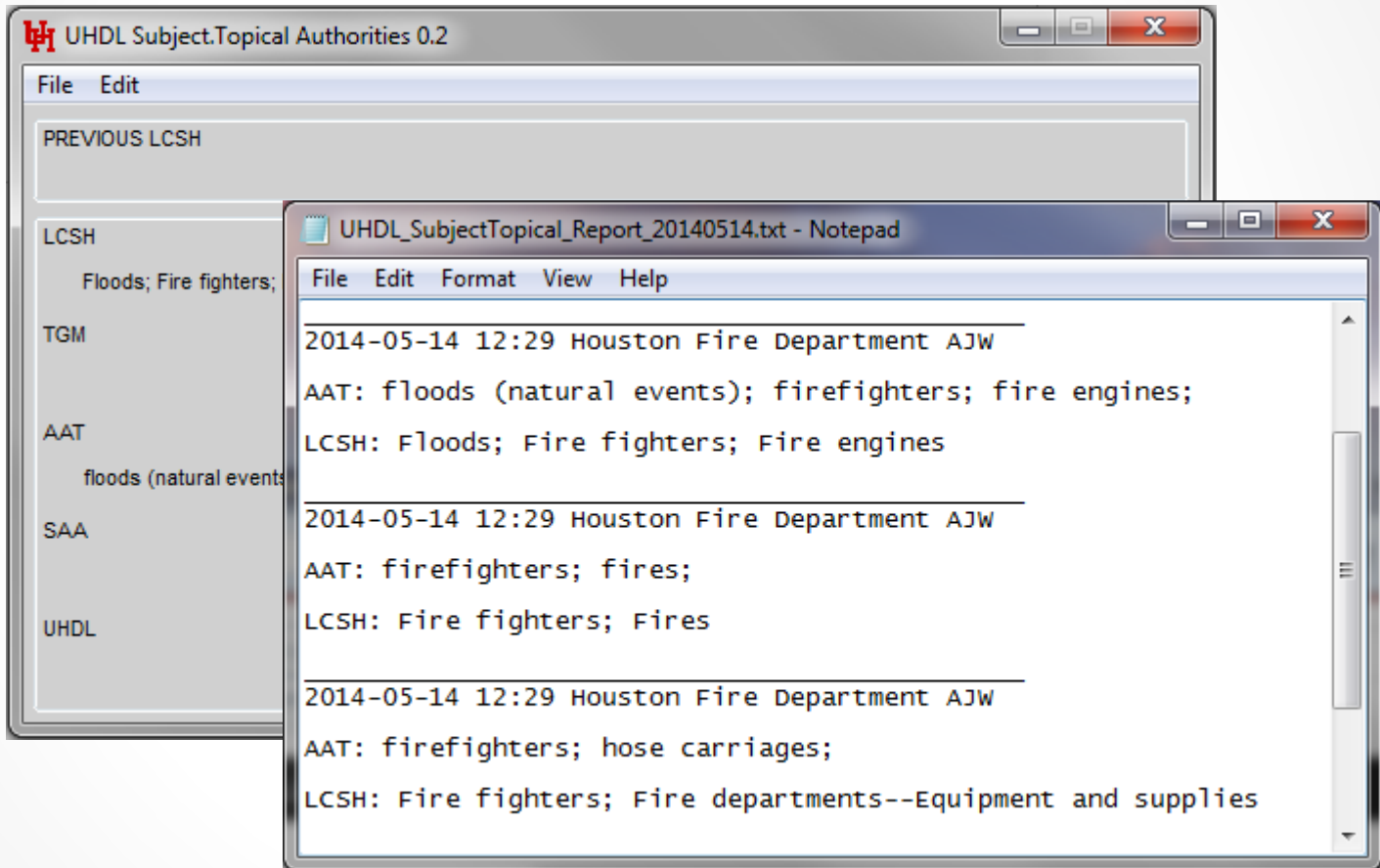
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Upgrade Tools: Subject App



Upgrade Tools: Subject App



O:\Cataloging\Metadata\Software\AutoHotkey\SubjectTopical_CDM\UHDL_SubjectTopical.txt - Notepad++

File Edit Search View Encoding Language Settings Macro Run Plugins Window ?

UHDL_SubjectTopical.txt

241	TGM Schools	Schools	http://id.loc.gov/authorities/subjects/sh85118451	CPH	20140513
242	TGM Cotton	Cotton	http://id.loc.gov/authorities/subjects/sh85033302	CPH	20140513
243	TGM Government facilities	Government buildings	http://id.loc.gov/authorities/subjects/sh85108620	CPH	20140513
244	AAT buildings	Buildings	http://id.loc.gov/authorities/subjects/sh85017769	CPH	20140513
245	AAT farming	Agricultural systems	http://id.loc.gov/authorities/subjects/sh85002407	CPH	20140513
246	AAT hospitals	Hospitals	http://id.loc.gov/authorities/subjects/sh85062285	CPH	20140513
247	TGM Jails	Jails	http://id.loc.gov/authorities/subjects/sh85069253	CPH	20140513
248	AAT banks	Banks and banking, Central	http://id.loc.gov/authorities/subjects/sh85011647	CPH	20140513
249	AAT city blocks	City blocks	http://id.loc.gov/authorities/subjects/sh85014924	CPH	20140513
250	TGM Waterworks	Waterworks	http://id.loc.gov/authorities/subjects/sh85145757	CPH	20140513
251	TGM Buildings	Buildings	http://id.loc.gov/authorities/subjects/sh85017769	CPH	20140513
252	TGM Portrait photographs	Portraits	http://id.loc.gov/authorities/subjects/sh85105182	CPH	20140513
253	TGM Shipping	Shipping	http://id.loc.gov/authorities/subjects/sh85121579	CPH	20140513
254	TGM Advertising	Advertising	http://id.loc.gov/authorities/subjects/sh85001086	CPH	20140513
255	TGM Business & finance	Business	http://id.loc.gov/authorities/subjects/sh85018260	CPH	20140513
256	AAT buildings (structures)	Buildings	http://id.loc.gov/authorities/subjects/sh85017769	CPH	20140513
257	AAT skyscrapers	Skyscrapers	http://id.loc.gov/authorities/subjects/sh85123270	CPH	20140513
258	TGM Skyscrapers	Skyscrapers	http://id.loc.gov/authorities/subjects/sh85123270	CPH	20140513
259	TGM Banks	Banks and banking, Central	http://id.loc.gov/authorities/subjects/sh85011647	CPH	20140513
260	TGM Railroad stations	Railroad stations	http://id.loc.gov/authorities/subjects/sh85111042	CPH	20140513
261	TGM Industry	Industry & trade summary	http://id.loc.gov/authorities/subjects/n92090429	CPH	20140513
262	AAT factories	Factories	http://id.loc.gov/authorities/subjects/sh85046823	CPH	20140513
263	TGM Advertisements	Advertising	http://id.loc.gov/authorities/subjects/sh85001086	CPH	20140513
264	TGM Construction	Construction	http://id.loc.gov/authorities/subjects/sh99005337	CPH	20140513
265	AAT architectural drawings	Designs and plans	http://id.loc.gov/authorities/subjects/sh87005580	CPH	20140513
266	AAT banks (buildings)	Bank buildings	http://id.loc.gov/authorities/subjects/sh85011556	CPH	20140513
267	AAT stretcher	Litters	http://id.loc.gov/authorities/subjects/sh85077674	AJW	20140513
268	AAT floods (natural events)	Floods	http://id.loc.gov/authorities/subjects/sh85049168	AJW	20140514

Normal text file length: 25183 lines: 269 Ln:1 Col:1 Sel:0|0 Dos\Windows UTF-8 INS

O:\Cataloging\Metadata\Software\AutoHotkey\SubjectTopical_CDM\UHDL_SubjectTopical.txt - Notepad++

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UHDL_SubjectTopical.txt

```
241 TGM Schools Schools http://id.loc.gov/authorities/subjects/sh85118451 CPH 20140513
242 TGM Cotton Cotton http://id.loc.gov/authorities/subjects/sh85033302 CPH 20140513
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249 AAT city blocks City blocks http://id.loc.gov/authorities/subjects/sh85014924 CPH 20140513
250 TGM Waterworks Waterworks http://id.loc.gov/authorities/subjects/sh85145757 CPH 20140513
251 TGM Buildings Buildings http://id.loc.gov/authorities/subjects/sh85017769 CPH 20140513
252 TGM Portrait photographs Portraits http://id.loc.gov/authorities/subjects/sh85105182 CPH 20140513
253 TGM Shipping Shipping http://id.loc.gov/authorities/subjects/sh85121579 CPH 20140513
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263 TGM Advertisements Advertising http://id.loc.gov/authorities/subjects/sh85001086 CPH 20140513
264 TGM Construction Construction http://id.loc.gov/authorities/subjects/sh99005337 CPH 20140513
265 AAT architectural drawings Designs and plans http://id.loc.gov/authorities/subjects/sh87005580 CPH 20140513
266 AAT banks (buildings) Bank buildings http://id.loc.gov/authorities/subjects/sh85011556 CPH 20140513
267
268 AAT floods (natural events) Floods http://id.loc.gov/authorities/subjects/sh85049168 AJW 20140514
```

Normal text file length: 25183 lines: 269 Ln:1 Col:1 Sel:0|0 Dos\Windows UTF-8 INS

Upgrade Tools: Subject App

The image shows a web browser window on the left and a desktop application window on the right. The browser window displays the 'Metadata Unit' page, which includes a navigation menu, a list of project updates, and a discussions section. The desktop application window, titled 'CONTENTdm Project Client', shows a table of project items with columns for 'Thumbnail', 'Subject.Topical (LCSH)', 'Subject.Topical (TGM-1)', 'Subject.Topical (AAT)', 'Subject.Topical (SAA)', 'Subject.Topical (Local)', and 'Subject.Name (LCNAF)'. The table contains four rows of data, each with a thumbnail image and corresponding subject terms. The first row is highlighted in blue.

Browser Window: Metadata Unit

File Edit View History Bookmarks Tools Help

Metadata Unit

Basecamp LLC (US) https://basecamp.com/2547302/projects/5137273

Launchpad Basecamp: University of Houston Libraries Basecamp: Classic Projects

Help Basecamp New stuff! Projects Calendar Everything Progress Everyone

Metadata Unit

Metadata Unit in MDS

[100 Discussions](#) [35 To-dos](#) [1 File](#) [4 Text documents](#) [Events](#)

Latest project updates

- 3:15pm** You completed a to-do: [Submit USS Houston 02 to SC](#)
- 3:15pm** You completed a to-do: [USS Houston 02 QR](#)
- 2:50pm** You completed a to-do: [Submit Early Texas Docs to Drew for publication](#)

[See all updates](#)

Discussions

Post a new message

- Andrew W. [USS Houston 01 rework](#) - • revisit geographic coordinates • re-scans for Box 2, Folder 6 are now available in the JPEGs folder 10:4
- Andrew W. [USS Houston 02 rework](#) - • revisit geographic coordinates 10:2
- Andrew W. [USS Houston 02 review](#) - • run POC2SubGeo.ahk: Batch 2, Batch 1. Sample • spot check local names for authorized forms 10:2

Screen-O-Matic.com

CONTENTdm Project Client

Project Add Item Edit Administration Help

Home Find in Collection Upgrade

Find & Replace Spell Check Replace Items More Actions ...

Select All Clear All Upload for Approval Open in Tab Delete 1 to 243 of 243 items

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<input type="checkbox"/>		Houston (Tex.); Buildings		fire stations;				
<input type="checkbox"/>		Sam Houston Park (Houston, Tex.);		parks (recreation areas); playgrounds;				
<input type="checkbox"/>		Sam Houston Park (Houston, Tex.);		parks (recreation areas); playgrounds;				
<input type="checkbox"/>		Sam Houston Park (Houston, Tex.);		parks (recreation areas); ponds;				

No items uploaded [show details](#)

Project Client is up to date

Upgrade Tools: Name App

Logan, William M., 1802-1839; Elliot, Peter
Sublett, Philip Allen, 1802-1850; Burditt, Jesse; Augustus, G. W.; Hotchkiss, Archibald, 1794-1882; Thomas. John:
Bell, Thomas B.; Potter, Robert, 1799-1842; Harden, Samuel H.

- Large collections with legacy metadata
- All names entered in LCNAF field and formatted to look like an LCNAF name
- App moves names to correct authority

C:\Users\weidnera\Desktop\UHDL_Names.txt - Notepad++

File Edit Search View Encoding Language Settings Macro Run Plugins Window ?

UHDL_Names.txt

```
130 LCNAF Theis, Susanne Theis, Susanne AJW 20140424
131 LCNAF Johnson, Dianna A. Johnson, Dianna A. AJW 20140424
132 LCNAF Young, Anne Young, Anne, RN AJW 20140424
133 LCNAF Sidhwa, Bapsi Sidhwa, Bapsi AJW 20140424
134 LCNAF Storrs, Landon R. Y Storrs, Landon R. Y. AJW 20140424
135 LCNAF Storrs, Landon R. Y. Storrs, Landon R. Y. AJW 20140424
136 LCNAF Sondock, Ruby K. Sondock, Ruby K. AJW 20140424
137 LCNAF O'Connor, Kyrle, 1954- O'Connor, Kyrle, 1954- AJW 20140424
138 LCNAF Storey, Gail Donohue Storey, Gail Donohue AJW 20140424
139 LCNAF Walker, Margie Walker, Margie AJW 20140424
140 LCNAF Koen, Karleen Koen, Karleen AJW 20140424
141 HOT Allen, John M., ?-1847 Allen, John M. (?-1847) AJW 20140424
142 HOT Allen, John M. (?-1847) Allen, John M. (?-1847) AJW 20140424
143 HOT Alley, Abraham, 1803-1862 Alley, Abraham (1803-1862) AJW 20140424
144 HOT Alley, Abraham (1803-1862) Alley, Abraham (1803-1862) AJW 20140424
145 HOT Atchison, Daniel D., 1820-1867 Atchison, Daniel D. (1820-1867) AJW 20140424
146 HOT Atchison, Daniel D. (1820-1867) Atchison, Daniel D. (1820-1867) AJW 20140424
147 HOT Ayres, David, 1793-1881 Ayres, David (1793-1881) AJW 20140424
148 HOT Ayres, David (1793-1881) Ayres, David (1793-1881) AJW 20140424
149 HOT Austin, William Tennant, 1809-1874 Austin, William Tennant (1809-1874) AJW 20140424
150 HOT Austin, William Tennant (1809-1874) Austin, William Tennant (1809-1874) AJW 20140424
151 HOT Ball, George, 1817-1884 Ball, George (1817-1884) AJW 20140424
152 HOT Ball, George (1817-1884) Ball, George (1817-1884) AJW 20140424
153 HOT Battle, Mills M., 1800-1856 Battle, Mills M. (1800-1856) AJW 20140424
154 HOT Battle, Mills M. (1800-1856) Battle, Mills M. (1800-1856) AJW 20140424
```

Normal text | length: 49866 lines: 694 Ln:186 Col:1 Sel:0|0 UNIX UTF-8 INS

C:\Users\weidnera\Desktop\UHDL_Names.txt - Notepad++

File Edit Search View Encoding Language Settings Macro Run Plugins Window ?

UHDL_Names.txt

```
130 LCNAF Theis, Susanne Theis, Susanne AJW 20140424
131 LCNAF Johnson, Dianna A. Johnson, Dianna A. AJW 20140424
132 LCNAF Young, Anne Young, Anne, RN AJW 20140424
133 LCNAF Sidhwa, Bapsi Sidhwa, Bapsi AJW 20140424
134 LCNAF Storrs, Landon R. Y. Storrs, Landon R. Y. AJW 20140424
135 LCNAF Storrs, Landon R. Y. Storrs, Landon R. Y. AJW 20140424
136 LCNAF Sondock, Ruby K. Sondock, Ruby K. AJW 20140424
137 LCNAF O'Connor, Kyrle, 1954- O'Connor, Kyrle, 1954- AJW 20140424
138 LCNAF Storey, Gail Donohue Storey, Gail Donohue AJW 20140424
139 LCNAF Walker, Margie Walker, Margie AJW 20140424
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154 HOT Battle, Mills M. (1800-1856) Battle, Mills M. (1800-1856) AJW 20140424
```

Normal text | length: 49866 lines: 694 Ln:186 Col:1 Sel:0|0 UNIX UTF-8 INS

Vocabulary

C:\Users\weidnera\Desktop\UHDL_Names.txt - Notepad++

File Edit Search View Encoding Language Settings Macro Run Plugins Window ?

UHDL_Names.txt

```
130 LCNAF Theis, Susanne Theis, Susanne AJW 20140424
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133 LCNAF Sidhwa, Bapsi Sidhwa, Bapsi AJW 20140424
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135 LCNAF Storrs, Landon R. Y. Storrs, Landon R. Y. AJW 20140424
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138 LCNAF Storey, Gail Donohue Storey, Gail Donohue AJW 20140424
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154 HOT Battle, Mills M. (1800-1856) Battle, Mills M. (1800-1856) AJW 20140424
```

Match Name

Normal text | length: 49866 lines: 694 Ln:186 Col:1 Sel:0|0 UNIX UTF-8 INS


C:\Users\weidnera\Desktop\UHDL_Names.txt - Notepad++

File Edit Search View Encoding Language Settings Macro Run Plugins Window ?

UHDL_Names.txt

```
130 LCNAF Theis, Susanne Theis, Susanne AJW 20140424
131 LCNAF Johnson, Dianna A. Johnson, Dianna A. AJW 20140424
132 LCNAF Young, Anne Young, Anne, RN AJW 20140424
133 LCNAF Sidhwa, Bapsi Sidhwa, Bapsi AJW 20140424
134 LCNAF Storrs, Landon R. Y. Storrs, Landon R. Y. AJW 20140424
135 LCNAF Storrs, Landon R. Y. Storrs, Landon R. Y. AJW 20140424
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```

Normal text | length: 49866 lines: 694 Ln:186 Col:1 Sel:0|0 UNIX UTF-8 INS




```

313
314 NameMap(vocabulary, listentry, name, confirmed)
315 {
316     count = 0
317     Loop, parse, listentry, `t
318     {
319         count++
320         if (count == 1)
321         {
322             IfEqual, vocabulary, %A_LoopField%
323             {
324                 Continue
325             }
326             Else
327             {
328                 Break
329             }
330         }
331
332         if (count == 2)
333         {
334             matchname = %A_LoopField%
335             StringReplace, matchname, matchname, `n,, All
336             StringReplace, matchname, matchname, `r,, All
337         }
338
339         if (count == 3)
340         {
341             authorizedname = %A_LoopField%
342             StringReplace, authorizedname, authorizedname, `n,, All
343             StringReplace, authorizedname, authorizedname, `r,, All
344             Break
345         }
346     }
347
348     IfEqual, name, %matchname% ; if the current name matches
349     {
350         global match = 1
351         IfNotInString, confirmed, %authorizedname% ; add authorized form
352         {
353             confirmed := confirmed . authorizedname . "; "
354         }
355     }
356
357     Return confirmed
358 }
359 ; map function =====

```

Mapping Function

```

313 ; map function =====
314 NameMap(vocabulary, listentry, name, confirmed)
315 {
316     count = 0
317     Loop, parse, listentry, `t
318     {
319         count++
320         if (count == 1)
321         {
322             IfEqual, vocabulary, %A_LoopField%
323             ,
324             Continue
325         }
326         Else
327         {
328             Break
329         }
330     }
331
332     if (count == 2)
333     {
334         matchname = %A_LoopField%
335         StringReplace, matchname, matchname, `n,, All
336         StringReplace, matchname, matchname, `r,, All
337     }
338
339     if (count == 3)
340     {
341         authorizedname = %A_LoopField%
342         StringReplace, authorizedname, authorizedname, `n,, All
343         StringReplace, authorizedname, authorizedname, `r,, All
344         Break
345     }
346 }
347
348 IfEqual, name, %matchname% ; if the current name matches
349 {
350     global match = 1
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352     {
353         confirmed := confirmed . authorizedname . "; "
354     }
355 }
356
357 Return confirmed
358 }
359 ; map function =====

```

Mapping Function

- Check if line belongs to the right vocabulary

```

313 ; map function =====
314 NameMap(vocabulary, listentry, name, confirmed)
315 {
316     count = 0
317     Loop, parse, listentry, `t
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325             }
326             Else
327             {
328                 Break
329             }
330         }
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334             matchname = %A_LoopField%
335             StringReplace, matchname, matchname, `n,, All
336             StringReplace, matchname, matchname, `r,, All
337         }
338
339         if (count == 3)
340         {
341             authorizedname = %A_LoopField%
342             StringReplace, authorizedname, authorizedname, `n,, All
343             StringReplace, authorizedname, authorizedname, `r,, All
344             Break
345         }
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351         IfNotInString, confirmed, %authorizedname% ; add authorized form
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353             confirmed := confirmed . authorizedname . "; "
354         }
355     }
356
357     Return confirmed
358 }
359 ; map function =====

```

Mapping Function

- Check if line belongs to the right vocabulary
- If so, store the match name...

```

313 ; map function =====
314 NameMap(vocabulary, listentry, name, confirmed)
315 {
316     count = 0
317     Loop, parse, listentry, `t
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319         count++
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326             Else
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352         {
353             confirmed := confirmed . authorizedname . "; "
354         }
355     }
356
357     Return confirmed
358 }
359 ; map function =====

```

Mapping Function

- Check if line belongs to the right vocabulary
- If so, store the match name...
- ...and the authorized form

```

313 ; map function =====
314 NameMap(vocabulary, listentry, name, confirmed)
315 {
316     count = 0
317     Loop, parse, listentry, `t
318     {
319         count++
320         if (count == 1)
321         {
322             IfEqual, vocabulary, %A_LoopField%
323             {
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325             }
326             Else
327             {
328                 Break
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334             matchname = %A_LoopField%
335             StringReplace, matchname, matchname, `n,, All
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355     }
356
357     Return confirmed
358 }
359 ; map function =====

```

Mapping Function

- Check if line belongs to the right vocabulary
- If so, store the match name...
- ...and the authorized form
- Add to the authorized list if it's a positive match

```

313 ; map function =====
314 NameMap(vocabulary, listentry, name, confirmed)
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357     Return confirmed
358 }
359 ; map function =====

```

Mapping Function

- Check if line belongs to the right vocabulary
- If so, store the match name...
- ...and the authorized form
- Add to the authorized list if it's a positive match
- Return authorized list for pasting into CDM field

Basic AutoHotkey Automation

- Delete junk data
- Copy data
- Type repetitive text

Delete Junk Data

- Legacy data repeated at the item level in compound objects
- Manual deletion would take too much time
- Automation makes it possible

Delete Junk Data

```
9  ^!d::
10 Loop
11 {
12     Click 1870, 1000 ; metadata scroll bar (lower right)
13
14     Click 980, 715 ; use and reproduction
15
16     Send, ^c ; copy
17     Clipwait ; wait for data on clipboard
18     StringLen, len, Clipboard ; get string length
19
20     if (len > 5) ; if data is present
21     {
22         Send, {Delete} ; use and reproduction
23         Send, {Up 2}
24         Send, {Delete} ; repository
25         Send, {Up 4}
26         Send, {Delete} ; original collection
27         Click 660, 1000 ; page scroll bar
28         Click 490, 1025 ; page navigation panel
29         Send, {Down} ; next page
30     }
31     else ; end loop if no data present
32         Break
33 }
```

Delete Junk Data

```
9  ^!d::
10 Loop
11 {
12     Click 1870, 1000 ; metadata scroll bar (lower right)
13
14     Click 980, 715 ; use and reproduction
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24         Send, {Delete} ; repository
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26         Send, {Delete} ; original collection
27         Click 660, 1000 ; page scroll bar
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25         Send, {Up 4}
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22         Send, {Delete} ; use and reproduction
23         Send, {Up 2}
24         Send, {Delete} ; repository
25         Send, {Up 4}
26         Send, {Delete} ; original collection
27         Click 660, 1000 ; page scroll bar
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```

Delete Junk Data

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9  ^!d::
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18     StringLen, len, Clipboard ; get string length
19
20     if (len > 5) ; if data is present
21     {
22         Send, {Delete} ; use and reproduction
23         Send, {Up 2}
24         Send, {Delete} ; repository
25         Send, {Up 4}
26         Send, {Delete} ; original collection
27         Click 660, 1000 ; page scroll bar
28         Click 490, 1025 ; page navigation panel
29         Send, {Down} ; next page
30     }
31     else ; end loop if no data present
32         Break
33 }
```

Delete Junk Data

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18     StringLen, len, Clipboard ; get string length
19
20     if (len > 5) ; if data is present
21     {
22         Send, {Delete} ; use and reproduction
23         Send, {Up 2}
24         Send, {Delete} ; repository
25         Send, {Up 1}
26         Send, {Delete} ; original collection
27         Click 660, 1000 ; page scroll bar
28         Click 490, 1025 ; page navigation panel
29         Send, {Down} ; next page
30     }
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32         Break
33 }
```


Delete Junk Data

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21     {
22         Send, {Delete} ; use and reproduction
23         Send, {Up 2}
24         Send, {Delete} ; repository
25         Send, {Up 4}
26         Send, {Delete} ; original collection
27         Click 880, 1000 ; page scroll bar
28         Click 490, 1025 ; page navigation panel
29         Send, {Down} ; next page
30     }
31     else ; end loop if no data present
32         Break
33 }
```





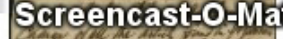
Delete Junk Data

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29         Send, {Down} ; next page
30     }
31     else ; end loop if no data present
32         Break
33 }
```

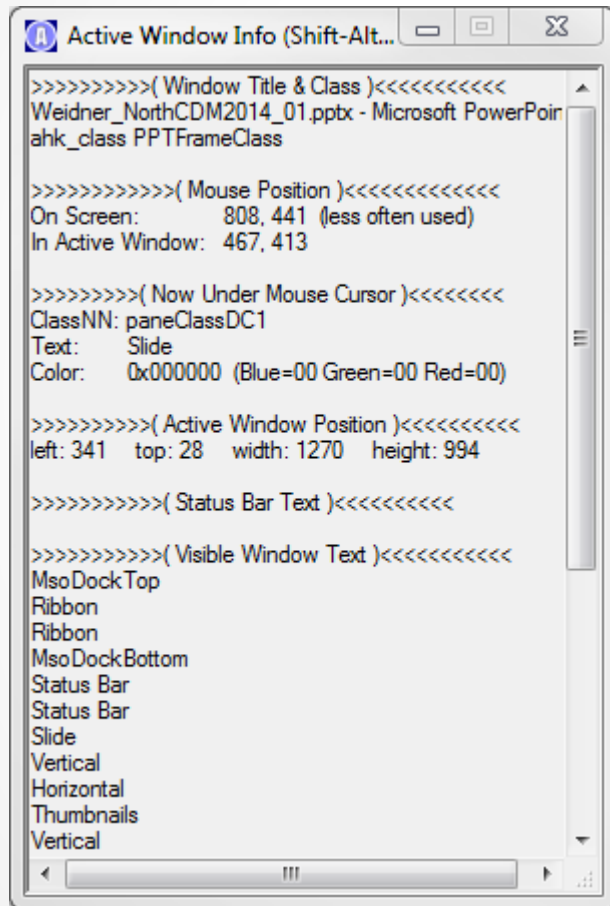
Delete Junk Data

```
9  ^!d::
10 Loop
11 {
12     Click 1870, 1000 ; metadata scroll bar (lower right)
13
14     Click 980, 715 ; use and reproduction
15
16     Send, ^c ; copy
17     Clipwait ; wait for data on clipboard
18     StringLen, len, Clipboard ; get string length
19
20     if (len > 5) ; if data is present
21     {
22         Send, {Delete} ; use and reproduction
23         Send, {Up 2}
24         Send, {Delete} ; repository
25         Send, {Up 4}
26         Send, {Delete} ; original collection
27         Click 660, 1000 ; page scroll bar
28         Click 490, 1025 ; page navigation panel
29         Send, {Down} ; next page
30     }
31     else ; end loop if no data present
32     Break
33 }
```

Delete Junk Data

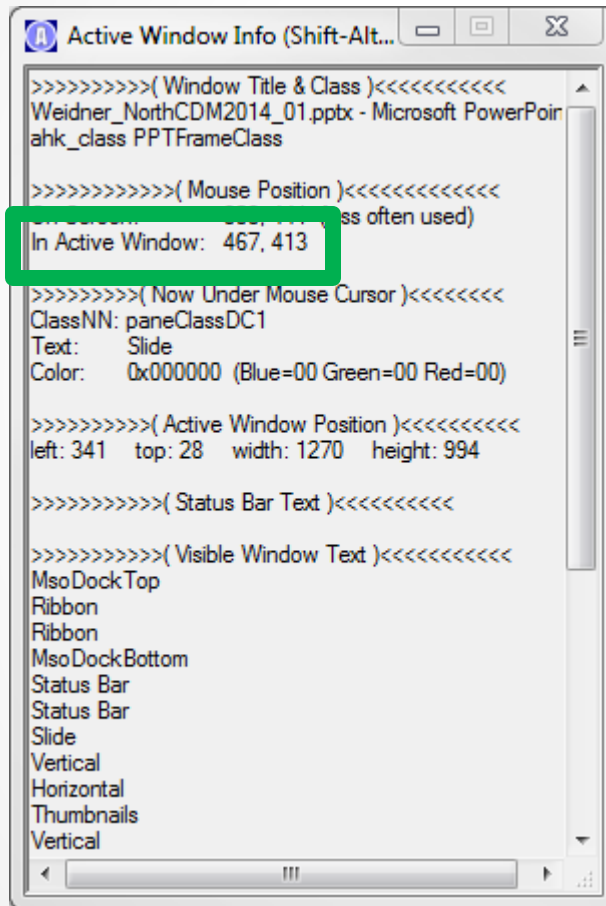
	<p>Note from Stephen F. Austin to Samuel May Williams regarding order for disbursement</p>		<p>Austin, Stephen F. (Stephen Fuller), 1793-1836</p>					
	<p>Ordenanza for the municipality of Austin</p>							
	<p>Order to Capt. Harris of the Sloop "Ohio"</p>			<p>Burnet, David Gouverneur (1788-1870)</p>				
	<p>Orders for a "faithful" discharge of John S. Black for his service to the Texas Army</p>		<p>Austin, Stephen F. (Stephen Fuller), 1793-1836</p>					
								

Delete Junk Data



- Autolt Window Spy for Click commands







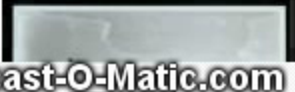
Delete Junk Data



- Autolt Window Spy for Click commands
- Place mouse over correct position on screen
- Use "In Active Window" screen coordinates

Copy Data

Select All | Clear All | Upload for Approval | Open in Tab | Delete 1 to 165 of 165 items

		Thumbnail	Publisher	Place of Creation (TGN)	Place of Creation (HOT)	Place of Creation (Local)	Date (ISO 8601)	Date	
▶		<input type="checkbox"/>			China			193x	1930s
		<input type="checkbox"/>			China				
		<input type="checkbox"/>			Hawaii		Hawaiian Territory	1939-11?	November 1939
		<input type="checkbox"/>							

ScreenCast-O-Matic.com

Copy Data

```
6
7  pause::pause
8
9  ^!m::
10 Sleep, 100
11 Send, ^c
12 Sleep, 100
13 Send, {Right 21}
14 Sleep, 500
15 Send, ^v
16 Sleep, 500
17 Send, {Left 21}
18
```

Copy Data

```
6  
7 pause::pause  
8  
9 ^!m::  
10 Sleep, 100  
11 Send, ^c  
12 Sleep, 100  
13 Send, {Right 21}  
14 Sleep, 500  
15 Send, ^v  
16 Sleep, 500  
17 Send, {Left 21}  
18
```

Pause key pauses script

Copy Data

```
6
7  pause::pause
8
9  ^!m::
10 Sleep, 100
11 Send, ^c
12 Sleep, 100
13 Send, {Right 21}
14 Sleep, 500
15 Send, ^v
16 Sleep, 500
17 Send, {Left 21}
18
```

Pause key pauses script

Ctrl + Alt + m (hotkey)

Copy Data

```
6
7  pause::pause
8
9  ^!m::
10 Sleep, 100
11 Send, ^c
12 Sleep, 100
13 Send, {Right 21}
14 Sleep, 500
15 Send, ^v
16 Sleep, 500
17 Send, {Left 21}
18
```

Pause key pauses script

Ctrl + Alt + m (hotkey)

Ctrl + c (copy)

Copy Data

```
6
7  pause::pause
8
9  ^!m::
10 Sleep, 100
11 Send, ^c
12 Sleep, 100
13 Send, {Right 21}
14 Sleep, 500
15 Send, ^v
16 Sleep, 500
17 Send, {Left 21}
18
```

Pause key pauses script

Ctrl + Alt + m (hotkey)

Ctrl + c (copy)

Right x 21 (move to Sub.Geo)

Copy Data

```
6
7  pause::pause
8
9  ^!m::
10 Sleep, 100
11 Send, ^c
12 Sleep, 100
13 Send, {Right 21}
14 Sleep, 500
15 Send, ^v
16 Sleep, 500
17 Send, {Left 21}
18
```

Pause key pauses script

Ctrl + Alt + m (hotkey)

Ctrl + c (copy)

Right x 21 (move to Sub.Geo)

Ctrl + v (paste)

Copy Data

```
6
7  pause::pause
8
9  ^!m::
10 Sleep, 100
11 Send, ^c
12 Sleep, 100
13 Send, {Right 21}
14 Sleep, 500
15 Send, ^v
16 Sleep, 500
17 Send, {Left 21}
18
```

Pause key pauses script

Ctrl + Alt + m (hotkey)

Ctrl + c (copy)

Right x 21 (move to Sub.Geo)

Ctrl + v (paste)

Left x 21 (move to POC)

Copy Data

```
6
7  pause::pause
8
9  ^!m::
10 Sleep, 100
11  Send, ^c
12 Sleep, 100
13  Send, {RIGHT 21}
14 Sleep, 500
15  Send, ^v
16 Sleep, 500
17  Send, {LEFT 21}
18
```

Sleep commands, measured in milliseconds, give the GUI time to react

Type Repetitive Text

Metadata Dictionary

Descriptive Metadata

Title | Alternative Title | Creator | Contributor | Publisher | Place of Creation | Date (ISO 8601) | Date | Description | Caption | Inscription | Donor | Subject.Topical | Subject.Name | Subject.Time Period | Subject.Geographic | Geographic Coordinates | Genre | Language | Language Code (ISO 639.2) | Physical Description | Type (DCMI) | Format (IMT) | Original Item Extent

Administrative Metadata

Original Item Location | Original Item URL | Original Collection | Original Collection URL | Digital Collection | Digital Collection URL | Repository | Repository URL | Use and Reproduction | Transcript

Label	Definition	Input Rules	CONTENTdm Settings	Crosswalk
Descriptive Metadata				
Title	"The name given to the resource. Typically, a Title will be a name by which the resource is formally known." (DCMI)	Letter: "Letter from x to y (if needed: regarding z)" Newsletter: "title of newsletter and issue date" Book: title taken from the catalog record	DC Map: Title Data Type: Text Search: Yes Hide: No Required: Yes Vocab: No	MARC: 245 \$a 245 \$b

Type Repetitive Text

Metadata Dictionary digital.lib.uh.edu/about/metadata

Descriptive Metadata

Title | Alternative Title | Creator | Contributor | Publisher | Place of Creation | Date (ISO 8601) | Date | Description | Caption | Inscription | Donor | Subject.Topical | Subject.Name | Subject.Time Period | Subject.Geographic | Geographic Coordinates | Genre | Language | Language Code (ISO 639.2) | Physical Description | Type (DCMI) | Format (IMT) | Original Item Extent

Administrative Metadata

Original Item Location | Original Item URL | Original Collection | Original Collection URL | Digital Collection | Digital Collection URL | Repository | Repository URL | Use and Reproduction | Transcript

Label	Definition	Input Rules	CONTENTdm Settings	Crosswalk
Descriptive Metadata				
Title	"The name given to the resource. Typically, a Title will be a name by which the resource is formally known." (DCMI)	<p>Letter: "Letter from x to y (if needed: regarding z)"</p> <p>Newsletter: "title of newsletter and issue date"</p> <p>Book: title taken from the catalog record</p>	<p>DC Map: Title</p> <p>Data Type: Text</p> <p>Search: Yes</p> <p>Hide: No</p> <p>Required: Yes</p> <p>Vocab: No</p>	<p>MARC:</p> <p>245 \$a</p> <p>245 \$b</p>

Type Repetitive Text

Metadata Dictionary digital.lib.uh.edu/about/metadata

Descriptive Metadata

Title | Alternative Title | Creator | Contributor | Publisher | Place of Creation | Date (ISO 8601) | Date | Description | Caption | Inscription | Donor | Subject.Topical | Subject.Name | Subject.Time Period | Subject.Geographic | Geographic Coordinates | Genre | Language | Language Code (ISO 639.2) | Physical Description | Type (DCMI) | Format (IMT) | Original Item Extent

Administrative Metadata

Original Item Location | Original Item URL | Original Collection | Original Collection URL | Digital Collection | Digital Collection URL | Repository | Repository URL | Use and Reproduction | Transcript

Label	Definition	Input Rules	CONTENTdm Settings	Crosswalk
Descriptive Metadata				
Title	"The name given to the resource. Typically, a Title will be a name by which the resource is formally known." (DCMI)	<p>Letter: "Letter from x to y (if needed: regarding z)"</p> <p>Newsletter: "title of newsletter and issue date"</p> <p>Book: title taken from the catalog record</p>	<p>DC Map: Title</p> <p>Data Type: Text</p> <p>Search: Yes</p> <p>Hide: No</p> <p>Required: Yes</p> <p>Vocab: No</p>	<p>MARC:</p> <p>245 \$a</p> <p>245 \$b</p>

Type Repetitive Text

Metadata Dictionary digital.lib.uh.edu/about/metadata

Descriptive Metadata

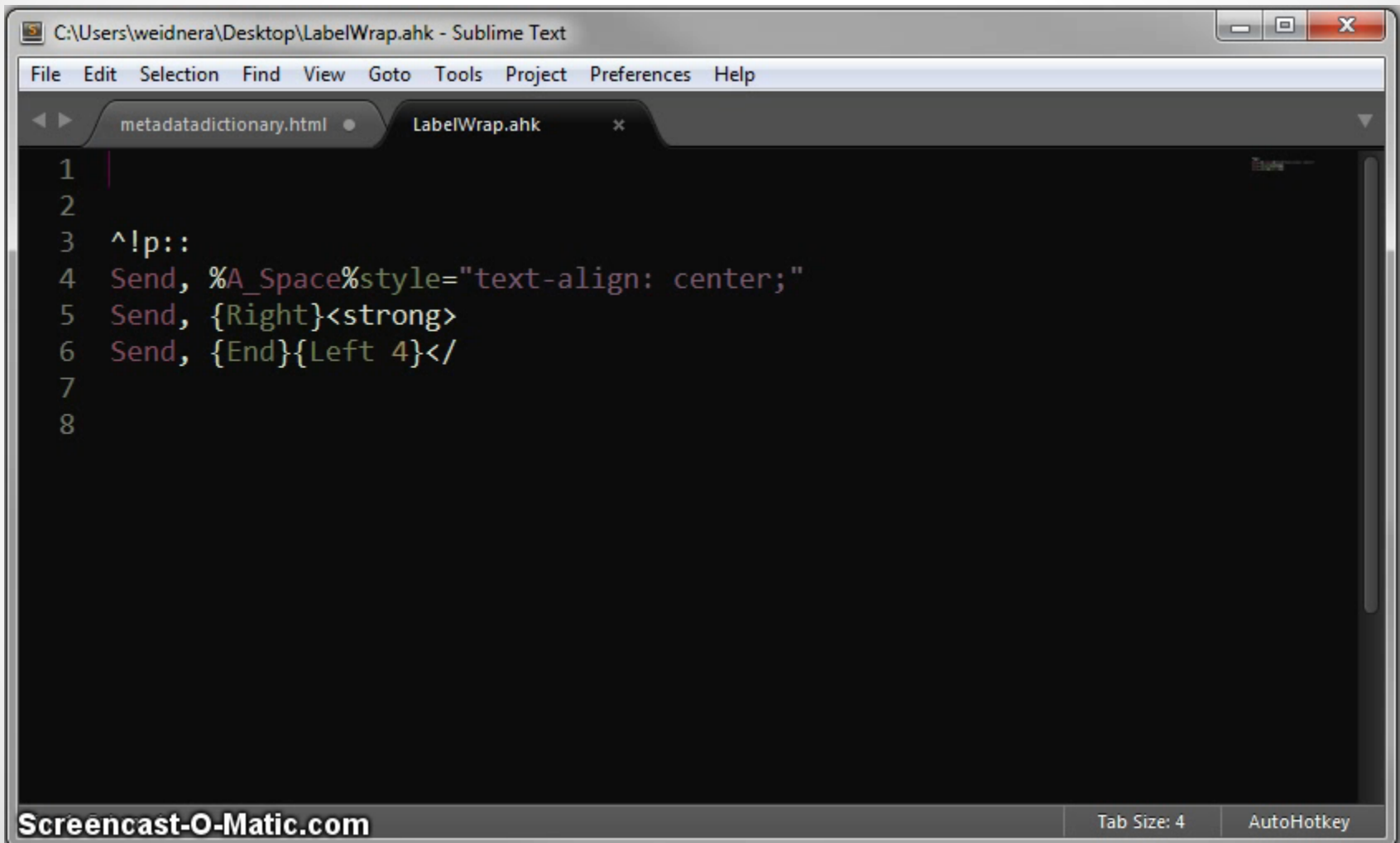
Title | Alternative Title | Creator | Contributor | Publisher | Place of Creation | Date (ISO 8601) | Date | Description | Caption | Inscription | Donor | Subject | Subject.Topical | Subject.Name | Subject.Time Period | Subject.Geographic | Geographic Coordinates | Genre | Language | Language Code (ISO 639.2) | Physical Description | Type (DCMI) | Format (IMT) | Original Item Extent

Administrative Metadata

Original Item Location | Original Item URL | Original Collection | Original Collection URL | Digital Collection | Digital Collection URL | Repository | Repository URL | Use and Reproduction | Transcript

Label	Definition	Input Rules	CONTENTdm Settings	Crosswalk
Descriptive Metadata				
Title	"The name given to the resource. Typically, a Title will be a name by which the resource is formally known." (DCMI)	Letter: "Letter from x to y (if needed: regarding z)" Newsletter: "title of newsletter and issue date" Book: title taken from the catalog record	DC Map: Title Data Type: Text Search: Yes Hide: No Required: Yes Vocab: No	MARC: 245 \$a 245 \$b

Type Repetitive Text

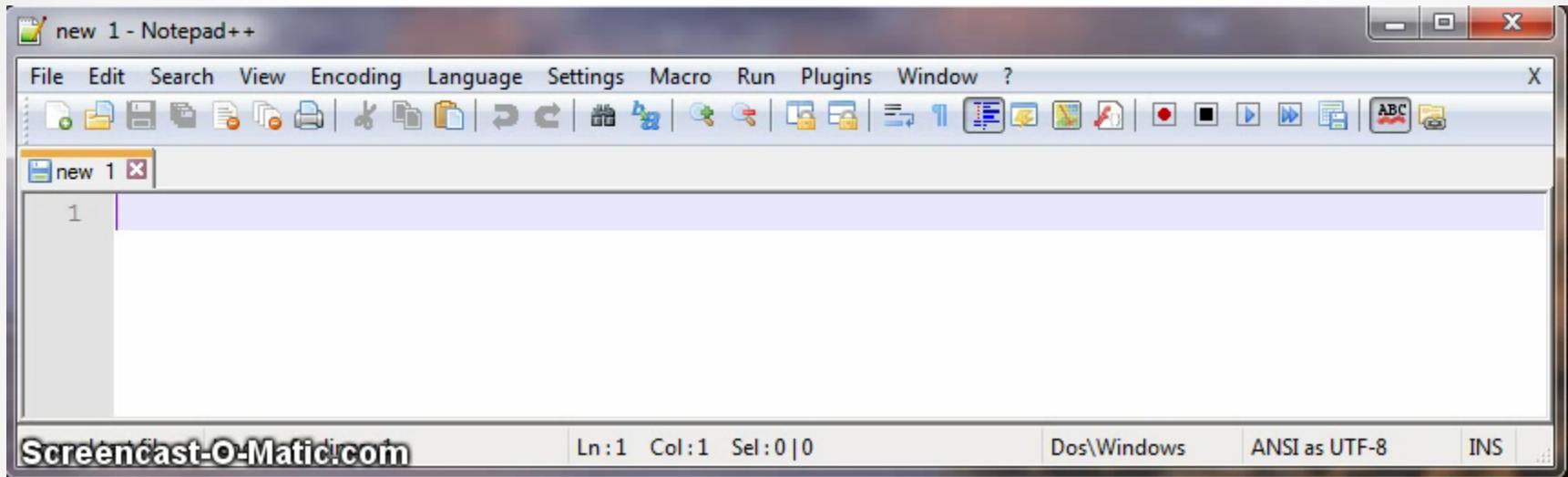


The screenshot shows a Sublime Text editor window with the following content:

```
C:\Users\weidner\Desktop\LabelWrap.ahk - Sublime Text
File Edit Selection Find View Goto Tools Project Preferences Help
metadatadictionary.html • LabelWrap.ahk x
1
2
3 ^!p::
4 Send, %A_Space%style="text-align: center;"
5 Send, {Right}<strong>
6 Send, {End}{Left 4}</
7
8
```

At the bottom of the window, there is a status bar with the text "ScreenCast-O-Matic.com" on the left, "Tab Size: 4" in the middle, and "AutoHotkey" on the right.

Type Repetitive Text



:::hdr::Title` tAlternative Title` tCreator (LCNAF)` tCreator (HOT)` t ... (70+ fields)

; type "hdr" to activate

Resources

- Thompson, Santi and Annie Wu. "Metadata Overhaul: Upgrading Metadata in the University of Houston Digital Library." *Journal of Digital Media Management* Vol. 2, No. 2: 137 – 147.
- Weidner, Andrew and Daniel Alemneh. "Workflow Tools for Digital Curation." *Code4Lib Journal* Issue 20: <http://journal.code4lib.org/articles/8419>
- Authority App Source Code: <https://github.com/metaweidner>
- Notepad++ (free text editor): <http://notepad-plus-plus.org/>
- Metadata Dictionary: <http://digital.lib.uh.edu/about/metadata>

Thank You

Andrew Weidner
ajweidner@uh.edu