



DH Preservation Strategies in Action: A Case Study

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Recap from last year

- > Potential Strategies for Preserving Complex DH Projects
 - > Preservation and Data Management Planning
 - > Documentation
 - > Preservation Profile
 - > Evaluate project components
 - > Ongoing preservation throughout project life cycle
 - > Web Archiving

A Case Study - Redlining Virginia

Redlining VA: "explores the actions of Home Owners' Loan Corporation (HOLC) in Virginia and its impact on Virginia cities." [bottom right]

- > Parent Project Mapping Inequality
- > Physical Exhibit at VT Libraries [example top right]
- > Faculty Researcher: Professor LaDale Winling

DO NOT be
color blind.
This erases peoples
identities.
Embrace diversity
DO NOT eradicate it!

Educate
Organize
Mobilize

The screenshot shows the 'Redlining Virginia' website interface. At the top, there is a navigation menu with 'The National Story', 'Redlining in Virginia', 'Exhibit Feedback', 'Browse Items', and 'Acknowledgments'. The main content area is titled 'Lynchburg' and features a map of the city with color-coded redlining zones. To the right of the map, there is a text block titled 'West End' which describes the area as a 'West End' neighborhood where residents in the 1950s were mostly unskilled laborers. Below the map, there is a caption: 'Redlining map of Lynchburg, Virginia ca. 1956'. On the far right, there is a sidebar with a search bar and a list of locations: 'Redlining in Virginia', 'Lynchburg', 'Norfolk', 'Richmond', and 'Roanoke'.

A Case Study - Project Components

Data files

- > Area description Images -- JPG
- > Map scans -- JPG
- > Georectified Maps -- TFW, TIF, XML, OVR
- > Shapefile bundles -- CPG, DBF, PRJ, SHP, SHX

Website

- > Text -- HTML
- > Images (exhibit feedback) -- JPG
- > Videos -- MP4

Physical Exhibit

- > Images -- JPG

New components

- > Preservation profile
- > Digital Exhibits Metadata Application Profile (MAP)
- > Shapefile bundle metadata
- > Documentation on all components and information on opening/reuse

A Case Study - Process

- > Locate all of the components
 - > Collected documentation, components in a Google Team Drive
- > Fill out the preservation profile and MAP
 - > Profile: Documents access points, rights, preservation needs
 - > MAP: Collection-level metadata
- > Research file formats for any necessary migrations and preservation best practices
 - > HTML text → TXT
 - > Video MP4 → MOV
 - > We did not migrate from JPG → TIFF
 - > Referenced LoC Recommended Format Statement and metadata schemas for Georectified maps and Shapefile bundles

A Case Study - Process

- > Research metadata schemas for items without metadata and complete
 - > Shapefile bundles
- > Test out opening each component and document
 - > Shapefile bundles openable with a free ArcGIS account
 - > Georectified maps openable with a free QGIS download
- > Document our workflow for reuse on other projects
 - > Internal workflow
 - > External recommendations for new projects

- RedlingVA_Preservation_Profile.xlsx
- Redling Virginia Preservation Package.docx
- Redling Virginia Preservation Package.pdf
- RedlingVA_MAP.xlsx

Documentation

- Redling Virginia Exhibit Metadata.xlsx
- redliningVA001.jpg
- redliningVA002.jpg
- redliningVA003.jpg
- redliningVA004.jpg
- redliningVA005.jpg

Physical Exhibit

Main Components

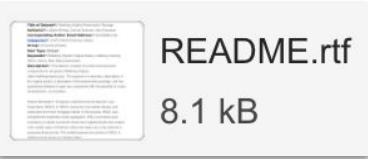
- Documentation >
- Maps >
- PhysicalExhibit >
- WebsiteComponents >

Georectified Maps

- Virginia_Lynchburg >
- Virginia_NewportNews >
- Virginia_Norfolk >
- Virginia_Richmond >
- Virginia_Roanoke >
- WestVirginia_Charleston >
- WestVirginia_Huntington >
- WestVirginia_Wheeling >

Website Components

- Metadata >
- Pages >
- RedVAimages >



A Case Study - Organization

[WestVirginia_Charleston]

[GeorectifiedMap] - all components of the georectified maps, including tif, xml, and ovr

[MapScan] - jpg of the full map

[ShapefileBundle] - Shapefile bundle queries

[WestVirginia_Huntington]

[AreaDescriptionImages] - jpgs named by sector A - D

[GeorectifiedMap] - all components of the georectified maps, including tif, xml, and ovr

[MapScan] - jpg of the full map

[ShapefileBundle] - Shapefile bundle queries

[WestVirginia_Wheeling]

[AreaDescriptionImages] - jpgs named by sector A - D

[GeorectifiedMap] - all components of the georectified maps, including tif, xml, and ovr

[MapScan] - jpg of the full map

[ShapefileBundle] - Shapefile bundle queries

[PhysicalExhibit] - physical objects related to the physical Exhibit of Redlining Virginia in Newman Library

[Redlining Virginia Exhibit Metadata.xlsx] - Metadata in DC Terms describing the physical Exhibit

[redliningVA001.jpg] - Image of physical exhibit

[redliningVA002.jpg] - Image of physical exhibit

[redliningVA003.jpg] - Image of physical exhibit

[redliningVA004.jpg] - Image of physical exhibit

[redliningVA005.jpg] - Image of physical exhibit

[WebsiteComponents]

[Metadata] - website metadata components

[RedliningVA_CSS.xml] - xml file of the main CSS components of the Redlining Virginia website

[RedliningVirginia_NationalStory.xml] - xml file of the structure of the main page of the Redlining Virginia website

[RedliningVirginia_SiteMetadata] - rtf file containing the DublinCore metadata for each object on the Redlining Virginia website

[Pages] - pdf versions of all unique pages on the Redlining Virginia website

[RedVAimages] - folder containing jpgs named by machine-readable UUIDs of all images included on the Redlining Virginia website

README

Required a detailed outline of document organization, file formats, and descriptions

A Case Study - Uploading to VTD

<https://doi.org/10.7294/14597751.v1>



Browse



☰ Hide files



README.rtf

8.1 kB



RedliningVirginia_PreservationPackage.zip

754.04 MB

📁 RedliningVirginia_PreservationPackage

📁 Maps

📁 WebsiteComponents

📁 Documentation

📁 PhysicalExhibit

.DS_Store

📁 __MACOSX

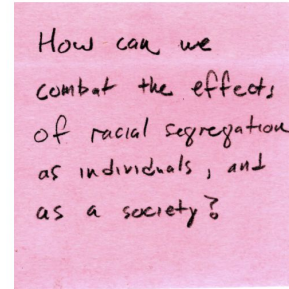
📁 RedliningVirginia_PreservationPackage

._RedliningVirginia_PreservationPackage

A Case Study - Challenges

- > The physical exhibit items [right] added an additional unexpected component
- > Nothing was in one location
- > Interactive maps added an additional unexpected component
- > Shapefile bundles are complex and require significant metadata for reuse
- > Cannot download from YouTube (legally)
- > Overall a very MANUAL process

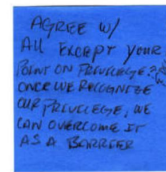
Exhibit Feedback



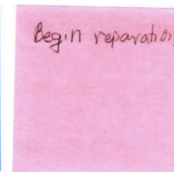
How can we combat the effects of racial segregation as individuals, and as a society?

These are notes left by visitors to the physical exhibit in response to this question.

"How can we combat the effects of racial segregation as individuals and as a society?"



AGREE w/
ALL EXCEPT YOUNG
BUILT ON PRIVILEGE OR
ONE WE PRIVILEGE
ALL PRIVILEGE, WE
CAN OVERCOME IT
AS A SOCIETY



Begin reparations

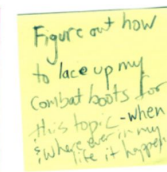
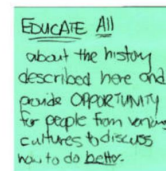


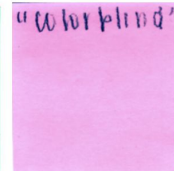
Figure out how
to lace up my
combat boots for
this topic - when
I where does it
happen?



ABOLISH
CAPITALISM



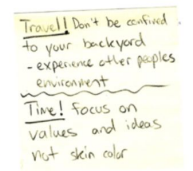
EDUCATE All
about the history
described here and
provide OPPORTUNITY
for people from various
cultures to discuss
how to do better.



“Wol blind”



Plecoptera



Travel! Don't be confined
to your backyard
- experience other peoples
environment
Time! Focus on
values and ideas
not skin color

A Case Study - Successes and Outcomes

Technical

- > We have a preservation package and documentation!
- > Need for preservation or other experts
- > More to consider than what is available on the website (e.g. interactive maps, external components)
- > How to represent the physical exhibit images and the post-it feedback on the website
- > Familiarization of backend interface

General

- > This was a manual process and could not automate everything
- > Learning what to ask for when involved in a project early on
- > Determined what may be needed for future projects
- > Because we weren't involved at project creation, we accept that we won't have everything

A Case Study - Limitations

General

- > This was just one project, others will have different components with new challenges
- > Smaller project
- > Static project
- > Access to the researcher helped fill in gaps - other projects may not have this

Technical

- > Bandwidth
- > Two faculty working on this
- > Limited tech support
- > No major migrations of file formats
- > From Omeka to Library managed platform
- > Attempted to compile the preservation package without the faculty researcher
- > Needed access to original YouTube videos

Next Step: Another Case Study?

**13 known Virginia Tech DH
projects**



~35 hours each



2 humans



Nope



**Need for
permanent,
ongoing
support for DH
projects**

How do we prioritize for another Case Study?

- **Dozens of requests** from VT faculty to host and maintain digital scholarship projects, some <10 years old
- What qualifies as a digital scholarship project that the Library is **prepared to support?**
- What **procedures and workflows** does the Library need to support any projects?

Digital Scholarship Technical Review Committee

Charge: To serve as an advisory and implementation body for legacy and new Digital Scholarship and web-based projects hosted by the University Libraries. This committee will develop and implement workflows, policies, and technical infrastructure for hosting digital scholarship. This will also include the appraisal and prioritization of migrating and developing projects.

DSTRC Makeup

Digital Scholarship Coordinator (liaison to project stakeholders)

Digital Preservation Coordinator (sustainability and preservation strategy)

IT member (website development)

IT member (systems)

SCUA member (digital archives)

Data Services member (data/metadata management)

Advocating for DH Support

- > Start small and slowly add people
- > More people advocating = attention from administration
 - > Added bonus of several University faculty members contacting Library administration for support
- > Long-standing history with several projects that never have enough support
- > Committee = sustainable support and member compensation



Thank you!

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