



**Collecting born-digital
materials from the web:
It's a CINCH!**

**Lisa Gregory
State Library of North Carolina
Digital Preservation Interest Group, June 24, 2012**

CINCH (Capture INgest CHecksum) is a tool that automates the transfer of online content to a repository, using ingest technologies appropriate for digital preservation.

More familiarly, CINCH

- **grabs freely available online content,**
- **authenticates it,**
- **extracts metadata, and**
- **readies it for repository ingest.**



- Modular
- Flexible
- Easy to use
- Repository-neutral
- Open source
- (For North Carolina libraries) Hosted

State Library of North Carolina

**Collection: State
government, genealogy,
North Caroliniana**

**Support: All North
Carolina libraries**

**Services & Materials: for
those with visual/physical
disabilities**

State Library of North Carolina

Collection: **State government**, genealogy, North Caroliniana

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North Carolina General Statute 125

The State Library shall be the official, complete, and permanent depository for **all State publications...**

Session laws

Annual reports

Technical reports

Newsletters

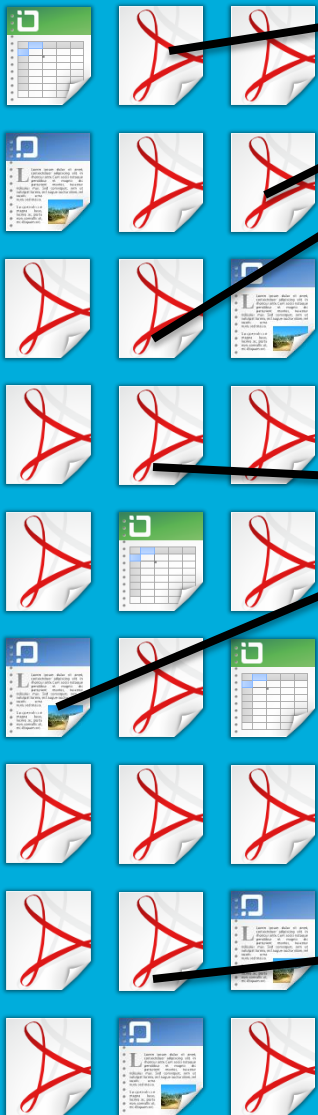
Websites

and more ...

North Carolina General Statute 125

The State Library
shall be the official,
complete, and
permanent
depository for **all
State publications...**

**Digital NC
State
Publications
Everywhere**



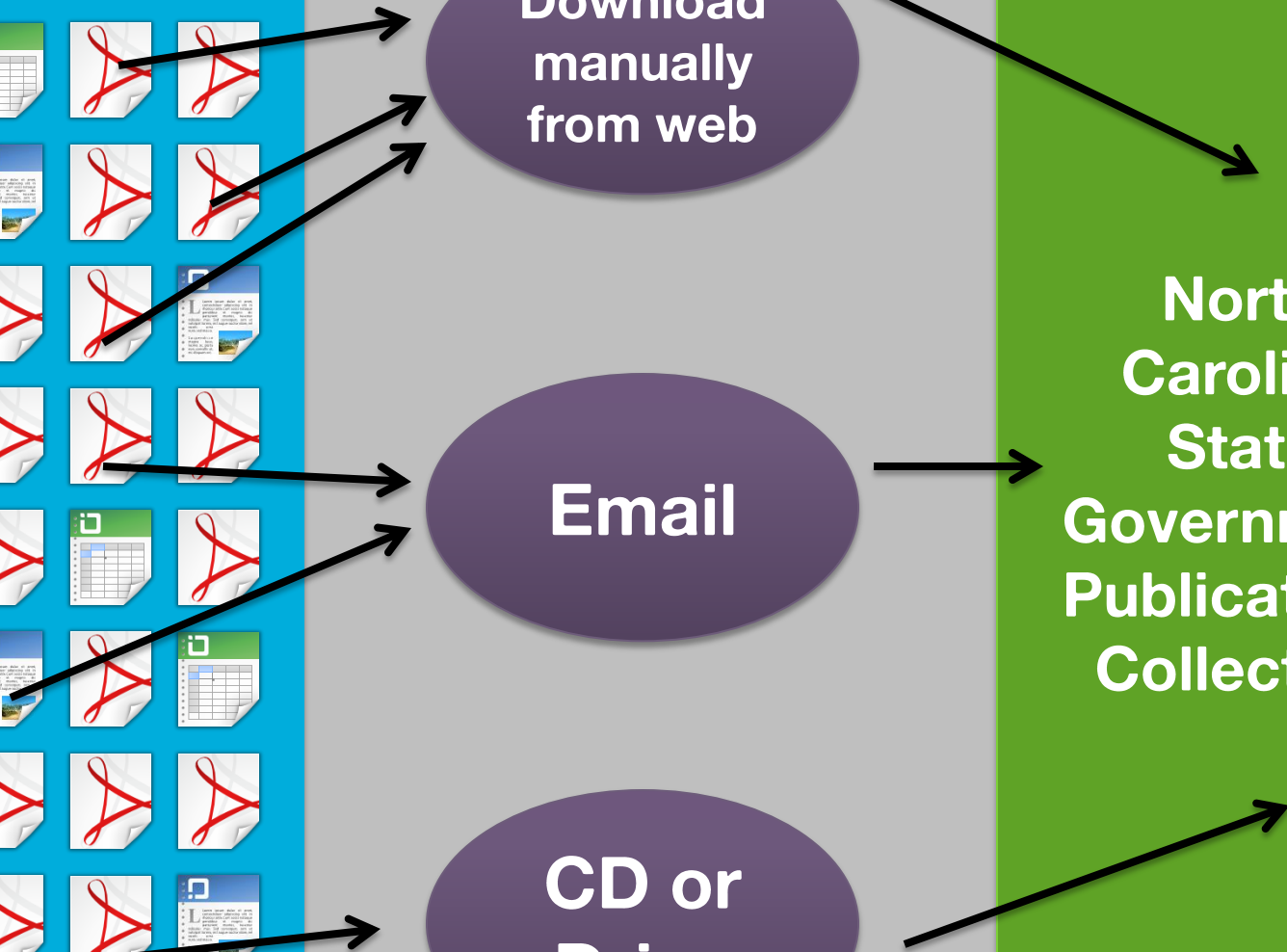
**Download
manually
from web**

Email

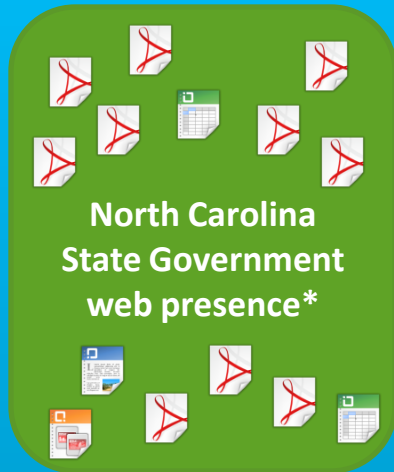
**CD or
Drive**

**North
Carolina
State
Government
Publications
Collection**

Preservation Storage



The Web



**Archive-
It**

**North
Carolina
State
Government
Web Site
Archives**

Preservation Storage

*Not to scale, of course

Drawbacks

Manual collection

- We're not getting it all
- Our staff could be doing value-add tasks instead
- The ingested object may not be “authentic”
- We have to ~~badger~~ encourage contributors

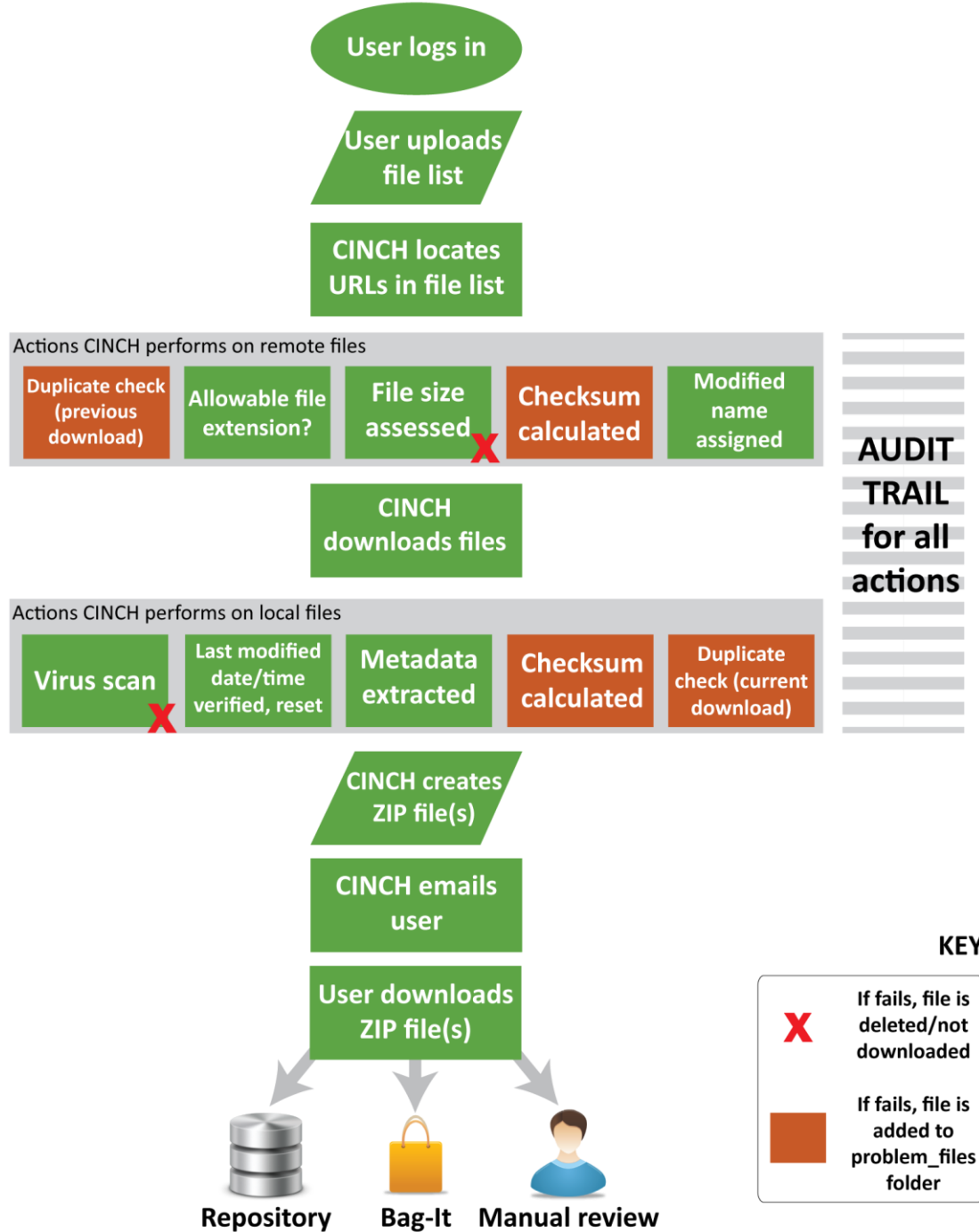
Website archiving

- A web archive is hard for users to understand
- We can't provide the continuity from digitized to digital
- We have tons o' data



How can we extract, use, & preserve the publications found throughout our web site archives, in an automated and preservation-responsible way?

Preservation Storage



First steps

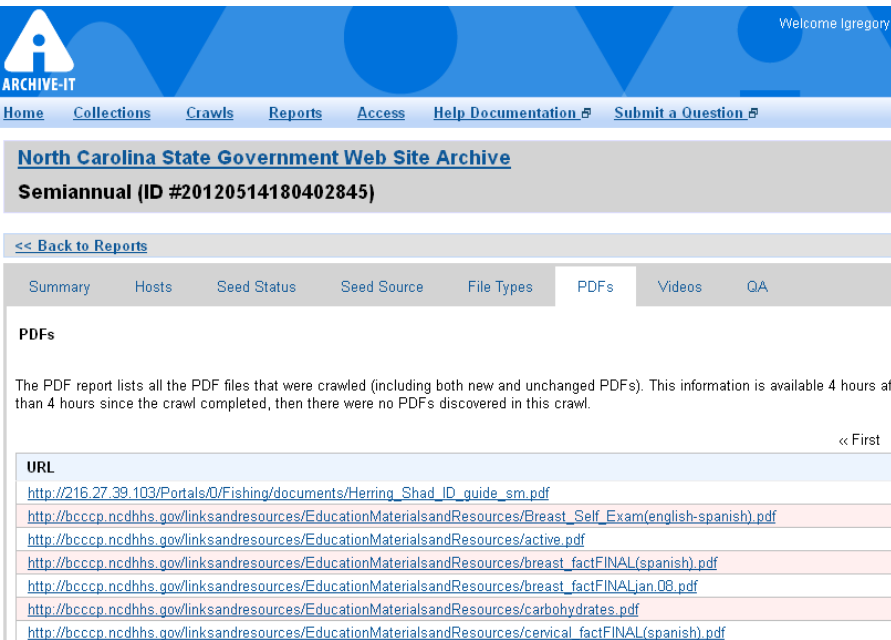
User logs in

User uploads
file list

CINCH locates
URLs in file list

.csv, .doc & .docx, .pdf, .txt
.xls & .xlsx
.gif, .jpg & .jp2, .png
.ppt & .pptx

User uploads file list



The screenshot shows the Internet Archive interface. At the top, there's a navigation bar with links like Home, Collections, Crawls, Reports, Access, Help Documentation, and Submit a Question. Below this, a header for the 'North Carolina State Government Web Site Archive' is visible, with a semiannual ID of #20120514180402845. A tabbed interface shows 'PDFs' selected. A text block explains that the PDF report lists files crawled 4 hours after the crawl. Below this, a table lists URLs of PDF files, including guides and fact sheets from the NCDHHS.

ARCHIVE-IT

Welcome Igregory

Home Collections Crawls Reports Access Help Documentation Submit a Question

North Carolina State Government Web Site Archive
Semiannual (ID #20120514180402845)

<< Back to Reports

Summary Hosts Seed Status Seed Source File Types PDFs Videos QA

PDFs

The PDF report lists all the PDF files that were crawled (including both new and unchanged PDFs). This information is available 4 hours after 4 hours since the crawl completed, then there were no PDFs discovered in this crawl.

<< First >

| URL |
|---|
| http://216.27.39.103/Portals/0/Fishing/documents/Herring_Shad_ID_guide_sm.pdf |
| http://bcccp.ncdhhs.gov/linksandresources/EducationMaterialsandResources/Breast_Self_Exam(english-spanish).pdf |
| http://bcccp.ncdhhs.gov/linksandresources/EducationMaterialsandResources/active.pdf |
| http://bcccp.ncdhhs.gov/linksandresources/EducationMaterialsandResources/breast_factFINAL(spanish).pdf |
| http://bcccp.ncdhhs.gov/linksandresources/EducationMaterialsandResources/breast_factFINALJan.08.pdf |
| http://bcccp.ncdhhs.gov/linksandresources/EducationMaterialsandResources/carbohydrates.pdf |
| http://bcccp.ncdhhs.gov/linksandresources/EducationMaterialsandResources/cervical_factFINAL(spanish).pdf |

Report from
Internet Archive's
Archive-It service



The screenshot shows the XML-Sitemaps.com website. The main heading is 'Build your Site Map online (XML, ROR, Text, HTML)'. Below this, a list of features is provided: creating an XML sitemap for search engines, a plain text list, an independent XML format, and an HTML site map. A '4 Simple Steps' section outlines the process from entering the URL to adding the sitemap to a Google account. A form titled 'Please enter details for sitemap generation' is visible, with a 'Starting URL' field containing 'http://'. A sidebar on the right contains 'News' and 'archive' links.

XML-Sitemaps.com
Sitemap Generator

Free Online Sitemap Generator | Unlimited Sitemap Generator | Online Sitemap Generator | PRO Service | About Sitemaps | Forum | Testimonials | SEO Tools | Contact

Build your Site Map online
(XML, ROR, Text, HTML)

This website is to let you:

- Create an **XML sitemap** that can be submitted to **Google, Bing, Yahoo** and other search engines to help them crawl your website better.
- Create a **Text sitemap** to have a plain list of all your pages.
- Create a **ROR sitemap**, which is an independent XML format for **any search engine**.
- Generate an **HTML site map** to allow human visitors to easily navigate on your site.

Get it done in 4 Simple Steps

- Enter your full website URL and some optional parameters in the form below.
- Press 'Start' button and wait until the site is completely crawled.
- You will be redirected to the generated sitemap details page, including number of pages, broken links list, XML file content and link to a sitemap file. Download the sitemap file using that link and put it into the domain root folder of your site.
- Go to your [Google Webmaster account](#) and add your sitemap URL.

Please enter details for sitemap generation

Starting URL

Please enter the **full** http address for your site, only the links within the starting directory will be included.

News

[RSS Feeds and AJAX content crawling in a new Sitemap Generator script v0.0](#)

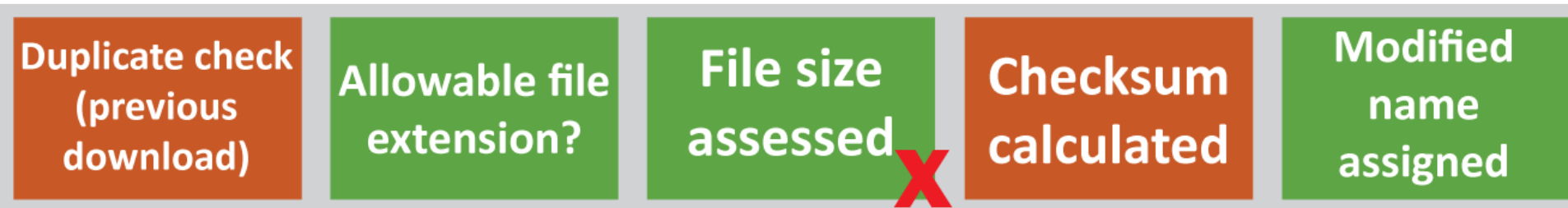
[PRO Sitemap Generator Service launched!](#)

archive:

- [Video Sitemaps and News Sitemaps](#)
- [Images in sitemaps, xml stylesheet](#)
- [Mobile sitemaps, config presets, https support](#)
- [Email notifications, html sitemap customization](#)
- [Live.com is now pinged](#)
- [Google Sitemaps with Automatic priority](#)
- [More search engines are pinged](#)
- [Sitemap protocol v0.9 is supported](#)
- [Completely configurable](#)

Sitemap generator
Ex: www.xml-sitemaps.com or
A1 Sitemap Generator

Actions CINCH performs on remote files



Actions CINCH performs on local files

Virus scan



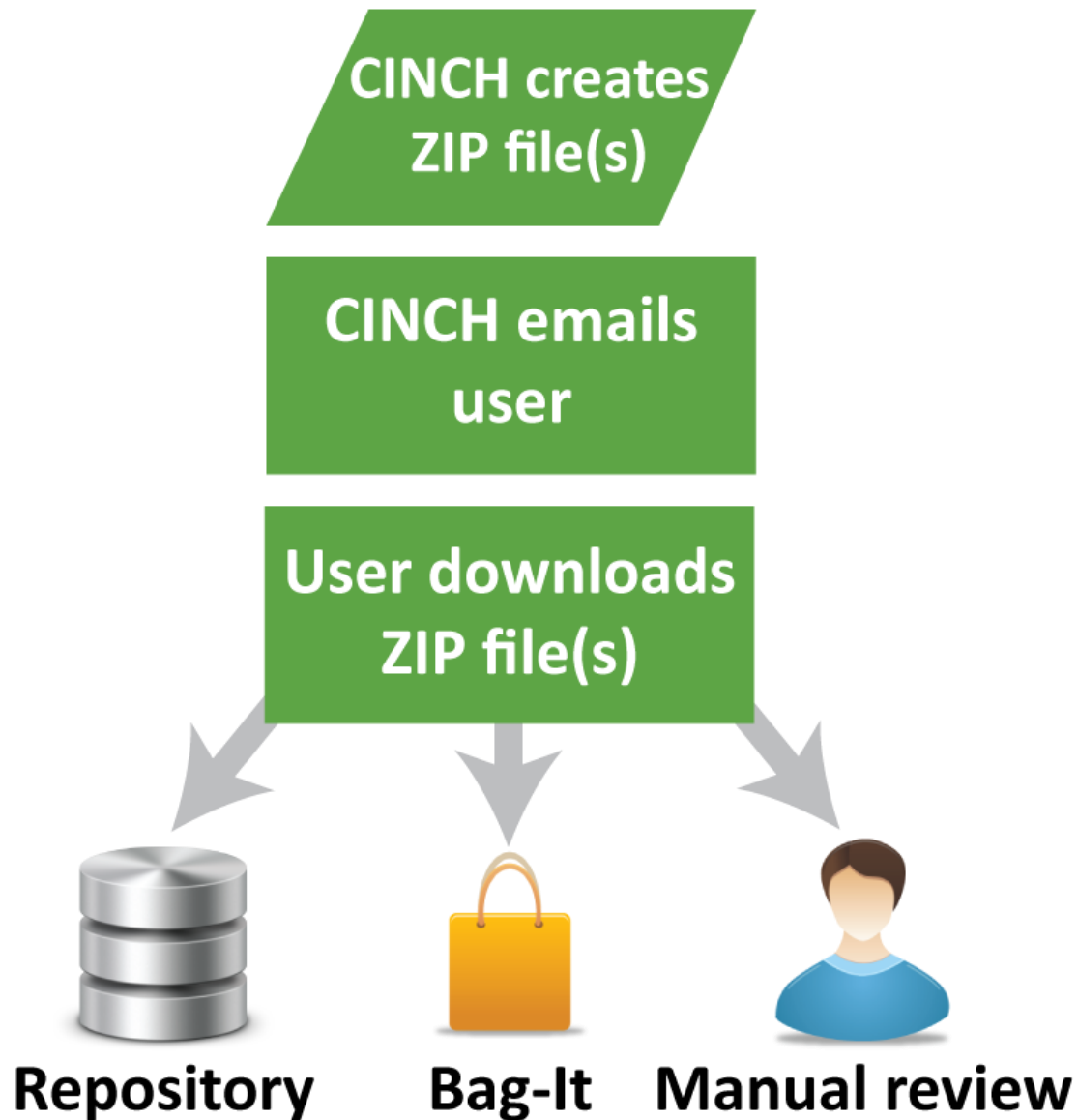
**Last modified
date/time
verified, reset**

**Metadata
extracted**

**Checksum
calculated**

**Duplicate
check (current
download)**

Final steps





CINCH: Capture, INgest, & CHecksum Tool

[Home](#) [About](#) [FAQ](#) [Contact](#) [Upload](#) [Download Your Files](#) [Change Password](#) [Logout \(test\)](#)

[Home](#) » [Download Your Files](#)

Your Available Downloads

Note: the contents of each file should be unique

Displaying 1 of 1 result(s)

Download zip file (created on 2012-06-19 18:30:01):

Download this file: [test_downloads_2012_06_19.zip](#)



NORTH CAROLINA
DEPARTMENT OF
**CULTURAL
RESOURCES**
WWW.NCOCULTURE.COM



STATE LIBRARY
of NORTH CAROLINA



NC
live
.org



INSTITUTE OF
MUSEUM AND
LIBRARY SERVICES

**Problem
files**

**Metadata,
audit trail**

Files

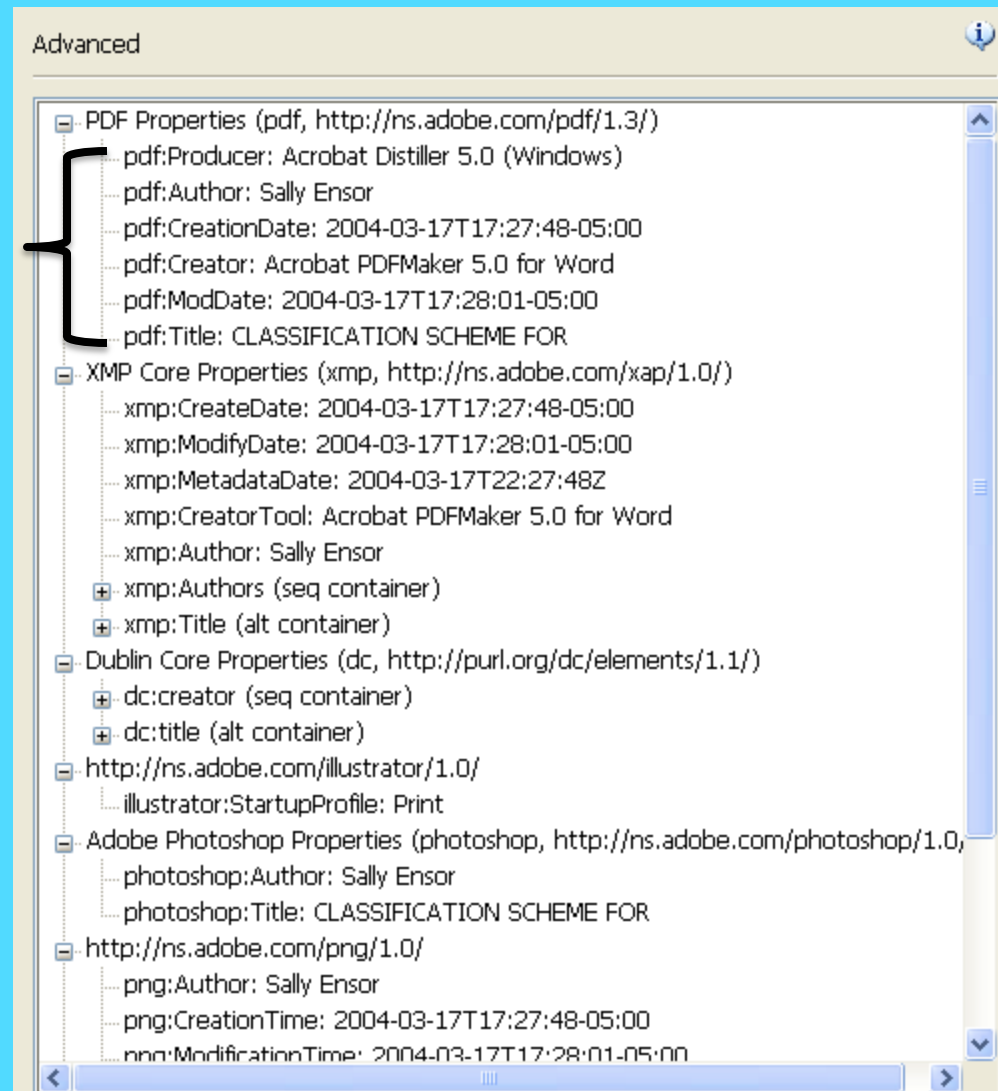
| Name ▲ | Size | Type | Date Modified |
|--|--------|-------------------------|--------------------|
| problem_files | | File Folder | 6/19/2012 6:30 PM |
| event_list_2012_06_19.csv | 31 KB | Microsoft Office Exc... | 6/19/2012 6:30 PM |
| file_manifest_2012-06-19.csv | 2 KB | Microsoft Office Exc... | 6/19/2012 6:30 PM |
| PDF_Metadata_2012_06_19.csv | 6 KB | Microsoft Office Exc... | 6/19/2012 5:30 PM |
| statelibrary.ncdcr.gov_govdocs_classification_Classa.pdf | 18 KB | Adobe Acrobat Doc... | 5/27/2011 8:12 AM |
| statelibrary.ncdcr.gov_govdocs_classification_classb2.PDF | 21 KB | Adobe Acrobat Doc... | 3/27/2007 2:09 PM |
| statelibrary.ncdcr.gov_govdocs_classification_classb.PDF | 14 KB | Adobe Acrobat Doc... | 4/26/2012 11:25 AM |
| statelibrary.ncdcr.gov_govdocs_classification_classc.PDF | 37 KB | Adobe Acrobat Doc... | 4/7/2008 10:45 AM |
| statelibrary.ncdcr.gov_govdocs_classification_classd2.PDF | 60 KB | Adobe Acrobat Doc... | 3/18/2004 9:30 AM |
| statelibrary.ncdcr.gov_govdocs_classification_classd.PDF | 97 KB | Adobe Acrobat Doc... | 3/18/2004 9:44 AM |
| statelibrary.ncdcr.gov_govdocs_classification_classf.pdf | 16 KB | Adobe Acrobat Doc... | 5/27/2011 8:12 AM |
| statelibrary.ncdcr.gov_govdocs_classification_classg2.PDF | 22 KB | Adobe Acrobat Doc... | 4/4/2006 11:12 AM |
| statelibrary.ncdcr.gov_govdocs_classification_classg3.pdf | 107 KB | Adobe Acrobat Doc... | 2/7/2012 1:40 PM |
| statelibrary.ncdcr.gov_govdocs_classification_classg4.PDF | 110 KB | Adobe Acrobat Doc... | 3/18/2004 9:30 AM |
| statelibrary.ncdcr.gov_govdocs_classification_classg.PDF | 109 KB | Adobe Acrobat Doc... | 3/18/2004 9:30 AM |
| statelibrary.ncdcr.gov_govdocs_classification_classh.PDF | 55 KB | Adobe Acrobat Doc... | 3/18/2004 9:30 AM |
| statelibrary.ncdcr.gov_govdocs_classification_classi2.PDF | 80 KB | Adobe Acrobat Doc... | 3/18/2004 9:30 AM |
| statelibrary.ncdcr.gov_govdocs_classification_classi3.PDF | 83 KB | Adobe Acrobat Doc... | 3/18/2004 9:30 AM |
| statelibrary.ncdcr.gov_govdocs_classification_classi4.PDF | 11 KB | Adobe Acrobat Doc... | 7/6/2006 9:17 AM |
| statelibrary.ncdcr.gov_govdocs_classification_classi.PDF | 26 KB | Adobe Acrobat Doc... | 4/26/2012 11:25 AM |
| statelibrary.ncdcr.gov_govdocs_classification_classIntro.pdf | 159 KB | Adobe Acrobat Doc... | 3/18/2004 9:29 AM |

| Name ▲ | Size | Type | Date Modified |
|--|--------|-------------------------|--------------------|
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| file_manifest_2012-06-19.csv | 2 KB | Microsoft Office Exc... | 6/19/2012 6:30 PM |
| PDF_Metadata_2012_06_19.csv | 6 KB | Microsoft Office Exc... | 6/19/2012 5:30 PM |
| statelibrary.ncdcr.gov_govdocs_classification_Classa.pdf | 18 KB | Adobe Acrobat Doc... | 5/27/2011 8:12 AM |
| statelibrary.ncdcr.gov_govdocs_classification_classb2.PDF | 21 KB | Adobe Acrobat Doc... | 3/27/2007 2:09 PM |
| statelibrary.ncdcr.gov_govdocs_classification_classb.PDF | 14 KB | Adobe Acrobat Doc... | 4/26/2012 11:25 AM |
| statelibrary.ncdcr.gov_govdocs_classification_classc.PDF | 37 KB | Adobe Acrobat Doc... | 4/7/2008 10:45 AM |
| statelibrary.ncdcr.gov_govdocs_classification_classd2.PDF | 60 KB | Adobe Acrobat Doc... | 3/18/2004 9:30 AM |
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| statelibrary.ncdcr.gov_govdocs_classification_classg2.PDF | 22 KB | Adobe Acrobat Doc... | 4/4/2006 11:12 AM |
| statelibrary.ncdcr.gov_govdocs_classification_classg3.pdf | 107 KB | Adobe Acrobat Doc... | 2/7/2012 1:40 PM |
| statelibrary.ncdcr.gov_govdocs_classification_classg4.PDF | 110 KB | Adobe Acrobat Doc... | 3/18/2004 9:30 AM |
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| statelibrary.ncdcr.gov_govdocs_classification_classh.PDF | 55 KB | Adobe Acrobat Doc... | 3/18/2004 9:30 AM |
| statelibrary.ncdcr.gov_govdocs_classification_classi2.PDF | 80 KB | Adobe Acrobat Doc... | 3/18/2004 9:30 AM |
| statelibrary.ncdcr.gov_govdocs_classification_classi3.PDF | 83 KB | Adobe Acrobat Doc... | 3/18/2004 9:30 AM |
| statelibrary.ncdcr.gov_govdocs_classification_classi4.PDF | 11 KB | Adobe Acrobat Doc... | 7/6/2006 9:17 AM |
| statelibrary.ncdcr.gov_govdocs_classification_classi.PDF | 26 KB | Adobe Acrobat Doc... | 4/26/2012 11:25 AM |
| statelibrary.ncdcr.gov_govdocs_classification_classIntro.pdf | 159 KB | Adobe Acrobat Doc... | 3/18/2004 9:29 AM |

URL

**original
file name**

**Original metadata
retained in file header**



Event List (Audit Trail)

Url **Filename** **Event Name** **Event Time**

| | A | B | C | D |
|----|---|--|---------------------------------------|-----------------|
| 1 | Url | Filename | Event Name | Event Time |
| 2 | http://statelibrary.ncdcr.gov/govdocs/classification/Classa.pdf | statelibrary.ncdcr.gov_govdocs_classification_Classa.pdf | Download Last Modified time corrected | 6/18/2012 22:15 |
| 3 | http://statelibrary.ncdcr.gov/govdocs/classification/Classa.pdf | statelibrary.ncdcr.gov_govdocs_classification_Classa.pdf | Downloaded | 6/18/2012 22:15 |
| 4 | http://statelibrary.ncdcr.gov/govdocs/classification/Classa.pdf | statelibrary.ncdcr.gov_govdocs_classification_Classa.pdf | Renamed | 6/18/2012 22:15 |
| 5 | http://statelibrary.ncdcr.gov/govdocs/classification/Classa.pdf | statelibrary.ncdcr.gov_govdocs_classification_Classa.pdf | File integrity check | 6/18/2012 23:00 |
| 6 | http://statelibrary.ncdcr.gov/govdocs/classification/Classa.pdf | statelibrary.ncdcr.gov_govdocs_classification_Classa.pdf | Virus check | 6/19/2012 1:00 |
| 7 | http://statelibrary.ncdcr.gov/govdocs/classification/Classa.pdf | statelibrary.ncdcr.gov_govdocs_classification_Classa.pdf | Local checksum creation | 6/19/2012 1:45 |
| 8 | http://statelibrary.ncdcr.gov/govdocs/classification/Classa.pdf | statelibrary.ncdcr.gov_govdocs_classification_Classa.pdf | File integrity check | 6/19/2012 1:45 |
| 9 | http://statelibrary.ncdcr.gov/govdocs/classification/Classa.pdf | statelibrary.ncdcr.gov_govdocs_classification_Classa.pdf | Metadata Extraction | 6/19/2012 2:30 |
| 10 | http://statelibrary.ncdcr.gov/govdocs/classification/Classa.pdf | statelibrary.ncdcr.gov_govdocs_classification_Classa.pdf | Full text check | 6/19/2012 2:30 |
| 11 | http://statelibrary.ncdcr.gov/govdocs/classification/Classa.pdf | statelibrary.ncdcr.gov_govdocs_classification_Classa.pdf | File integrity check | 6/19/2012 15:42 |
| 12 | http://statelibrary.ncdcr.gov/govdocs/classification/Classa.pdf | statelibrary.ncdcr.gov_govdocs_classification_Classa.pdf | Zipped for download | 6/19/2012 18:30 |
| 13 | http://statelibrary.ncdcr.gov/govdocs/classification/classIntro.pdf | statelibrary.ncdcr.gov_govdocs_classification_classIntro.pdf | Renamed | 6/18/2012 22:15 |
| 14 | http://statelibrary.ncdcr.gov/govdocs/classification/classIntro.pdf | statelibrary.ncdcr.gov_govdocs_classification_classIntro.pdf | Download Last Modified time corrected | 6/18/2012 22:15 |
| 15 | http://statelibrary.ncdcr.gov/govdocs/classification/classIntro.pdf | statelibrary.ncdcr.gov_govdocs_classification_classIntro.pdf | Downloaded | 6/18/2012 22:15 |
| 16 | http://statelibrary.ncdcr.gov/govdocs/classification/classIntro.pdf | statelibrary.ncdcr.gov_govdocs_classification_classIntro.pdf | File integrity check | 6/18/2012 23:00 |
| 17 | http://statelibrary.ncdcr.gov/govdocs/classification/classIntro.pdf | statelibrary.ncdcr.gov_govdocs_classification_classIntro.pdf | Virus check | 6/19/2012 1:00 |
| 18 | http://statelibrary.ncdcr.gov/govdocs/classification/classIntro.pdf | statelibrary.ncdcr.gov_govdocs_classification_classIntro.pdf | Local checksum creation | 6/19/2012 1:45 |
| 19 | http://statelibrary.ncdcr.gov/govdocs/classification/classIntro.pdf | statelibrary.ncdcr.gov_govdocs_classification_classIntro.pdf | File integrity check | 6/19/2012 1:45 |
| 20 | http://statelibrary.ncdcr.gov/govdocs/classification/classIntro.pdf | statelibrary.ncdcr.gov_govdocs_classification_classIntro.pdf | Metadata Extraction | 6/19/2012 2:30 |

PDF_Metadata

| Author | Creation Date | Last Modified Date | Creator | Producer | Resource name | Title | Pages |
|-------------|----------------------|----------------------|-------------------------------|-----------------------------------|--|------------------------------|-------|
| A | B | C | D | E | F | G | H |
| author | creation_date | last_modified | creator | producer | resource_name | title | pages |
| ENeville | 2011-05-23T16:32:14Z | 2011-05-23T16:32:14Z | PScript5.dll Version 5.2.2 | Acrobat Distiller 9.0.0 (Windows) | statelibrary.ncdcr.gov_govdocs_classification_Classa.pdf | Microsoft Word - Classa.doc | 8 |
| ENeville | 2012-04-25T17:48:54Z | 2012-04-25T17:48:54Z | PScript5.dll Version 5.2.2 | Acrobat Distiller 9.2.0 (Windows) | statelibrary.ncdcr.gov_govdocs_classification_classb.PDF | Microsoft Word - classb.doc | 4 |
| eneville | 2007-03-27T19:07:24Z | 2007-03-27T19:07:24Z | PScript5.dll Version 5.2.2 | Acrobat Distiller 7.0 (Windows) | statelibrary.ncdcr.gov_govdocs_classification_classb2.PDF | Microsoft Word - classb2.doc | 10 |
| ENeville | 2008-04-07T15:13:14Z | 2008-04-07T15:13:14Z | PScript5.dll Version 5.2 | Acrobat Distiller 7.0 (Windows) | statelibrary.ncdcr.gov_govdocs_classification_classc.PDF | Microsoft Word - classc.doc | 18 |
| Sally Ensor | 2004-03-18T14:53:13Z | 2004-03-18T14:53:17Z | Acrobat PDFMaker 5.0 for Word | Acrobat Distiller 5.0 (Windows) | statelibrary.ncdcr.gov_govdocs_classification_classd.PDF | D | 4 |
| Sally Ensor | 2004-03-17T23:01:14Z | 2004-03-17T23:01:19Z | Acrobat PDFMaker 5.0 for Word | Acrobat Distiller 5.0 (Windows) | statelibrary.ncdcr.gov_govdocs_classification_classd2.PDF | D | 2 |
| ENeville | 2011-05-23T16:36:09Z | 2011-05-23T16:36:09Z | PScript5.dll Version 5.2.2 | Acrobat Distiller 9.0.0 (Windows) | statelibrary.ncdcr.gov_govdocs_classification_classf.pdf | Microsoft Word - classf.doc | 8 |
| Sally Ensor | 2004-03-17T23:08:32Z | 2004-03-17T23:08:37Z | Acrobat PDFMaker 5.0 for Word | Acrobat Distiller 5.0 (Windows) | statelibrary.ncdcr.gov_govdocs_classification_classg.PDF | G | 4 |
| kmartin | 2006-04-04T15:07:04Z | 2006-04-04T15:07:04Z | PScript5.dll Version 5.2 | Acrobat Distiller 6.0 (Windows) | statelibrary.ncdcr.gov_govdocs_classification_classg2.PDF | Microsoft Word - classg2.doc | 11 |
| ENeville | 2012-02-03T16:44:08Z | 2012-02-03T16:44:08Z | PScript5.dll Version 5.2.2 | Acrobat Distiller 9.2.0 (Windows) | statelibrary.ncdcr.gov_govdocs_classification_classg3.pdf | Microsoft Word - classg3.doc | 50 |
| Sally Ensor | 2004-03-17T23:44:10Z | 2004-03-17T23:44:17Z | Acrobat PDFMaker 5.0 for Word | Acrobat Distiller 5.0 (Windows) | statelibrary.ncdcr.gov_govdocs_classification_classg4.PDF | G | 8 |
| Sally Ensor | 2004-03-17T23:46:30Z | 2004-03-17T23:46:33Z | Acrobat PDFMaker 5.0 for Word | Acrobat Distiller 5.0 (Windows) | statelibrary.ncdcr.gov_govdocs_classification_classh.PDF | H | 2 |
| ENeville | 2012-04-25T17:52:36Z | 2012-04-25T17:52:36Z | PScript5.dll Version 5.2.2 | Acrobat Distiller 9.2.0 (Windows) | statelibrary.ncdcr.gov_govdocs_classification_classi.PDF | Microsoft Word - classi.doc | 9 |
| Sally Ensor | 2004-03-18T13:18:25Z | 2004-03-18T13:18:44Z | Acrobat PDFMaker 5.0 for Word | Acrobat Distiller 5.0 (Windows) | statelibrary.ncdcr.gov_govdocs_classification_classi2.PDF | I | 2 |
| Sally Ensor | 2004-03-18T13:18:53Z | 2004-03-18T13:18:56Z | Acrobat PDFMaker 5.0 for Word | Acrobat Distiller 5.0 (Windows) | statelibrary.ncdcr.gov_govdocs_classification_classi3.PDF | I | 2 |
| kmartin | 2006-07-06T13:00:51Z | 2006-07-06T13:00:51Z | PScript5.dll Version 5.2 | Acrobat Distiller 6.0 (Windows) | statelibrary.ncdcr.gov_govdocs_classification_classi4.PDF | Microsoft Word - classi4.doc | 4 |
| Sally Ensor | 2004-03-17T22:27:48Z | 2004-03-17T22:28:01Z | Acrobat PDFMaker 5.0 for Word | Acrobat Distiller 5.0 (Windows) | statelibrary.ncdcr.gov_govdocs_classification_classIntro.pdf | CLASSIFICATION SCHEME FOR | 10 |

| Subject | Keywords | Licensed To | Possible Title | Possible Keywords | Checksum | Fulltext |
|---------|----------|-------------|--|--|--|----------|
| I | J | K | L | M | N | O |
| subject | keywords | licensed_to | possible_doc_title | possible_doc_keywords | Checksum | Fulltext |
| | | | A:1 | Dept., Division, series, Division,, Agricultural | 4c38e61c7d6aaec288bea54c4176e9ff0b8698ba | Yes |
| | | | DEPARTMENT OFINSURANCEB1 Dept. of Insurance (c. 54, s. 3) | Division, Insurance, Dept., exists], Fire | e3a4dcfb7fadbe7a91d7743a666bcb9446de8ac9 | Yes |
| | | | B:5 | Dept., Division, publications, before, Development | 2e77e6986448147eecd5bf425ad59e1299399df | Yes |
| | | | C:1 | Division, publications, Dept., Health, before | 6a6ec35349602714d044da3e5bfead6a4f0dd4bf | Yes |
| | | | D DEPARTMENT OF CORRECTIOND1 Parole Commission (143B-266) [1973-] | School, State, Dept., Training, Office | 576dafbb70b4733aa09eaf323addb949b7e47471 | Yes |
| | | | D DEPARTMENT OF JUVENILE JUSTICE ANDDELINQUENCY PREVENTION | Juvenile, Dept., Services, Justice, Prevention | a7bb28fc2d25d55a3f4860398f2ebd2ac22949f2 | Yes |
| | | | F:1 | Services, State, Library, Commission, Division | 3ad9c82942a08ae391734dfbd5af6c41ffed0d9e | Yes |
| | | | G PUBLIC EDUCATIONG1 State Board of Education | Services, Division, Education, School, Program | 17b11bae708e33e98257c21d81ea65a761226771 | Yes |
| | | | G:5 | Division, publications, Education, Section, Services | eff9f28b9cd8360bfb2d5f09d5045f3891ebf4fa | Yes |
| | | | THE UNIVERSITY OF NORTHCAROLINA SYSTEM | Dept., Carolina, North, School, publications | 874b761deceddb5a0b67e8eff0e81688d43f6037 | Yes |
| | | | G THE COMMUNITY COLLEGE SYSTEMG145 GASTON COLLEGE (Dallas) [1963- | Technical, COLLEGE, COMMUNITY, Institute,, College, | 083073ea80eff612d0397b52503089ddd0f57f44 | Yes |
| | | | H STATE BOARD OF ELECTIONSH1 State Board of Elections [1901-] | Board, State, Elections, operates, there, | 80bbca186c589f4310bd3a725b1b5f009bf2e601 | Yes |
| | | | DEPARTMENT OFADMINISTRATIONI1 Dept. of Administration | State, Office, Dept., publications, Division | efba3efe4266ffda7def0eb2e02eda7439ffdefe | Yes |
| | | | I OFFICE OF THE STATE AUDITORI25 Dept. of State Auditor [1971-] | State, Auditor, audits, audit, Financial | 11dff255e0d06d96b5c0a32572206f356fdc6f53 | Yes |
| | | | I DEPARTMENT OF STATE TREASURERI35 Dept. of State Treasurer [1971-] | State, Retirement, Dept., publications, before | 43f4fb08c79fce4bdd55ace704f8be616ddc62ec | Yes |
| | | | I:13 | Division, Property, 1973,, Valorem, Dept. | 595875919443b8f5e3c061c585ccd946b0db6942 | Yes |
| | | | CLASSIFICATION SCHEME FORNORTH CAROLINA STATE | agency, North, Carolina, Dept., State | e9075a1724b4a049d13c6b9ce12793e1dc2d502f | Yes |



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slnc-dimp.github.com/Cinch/

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Feedback welcome!

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