



**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**

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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

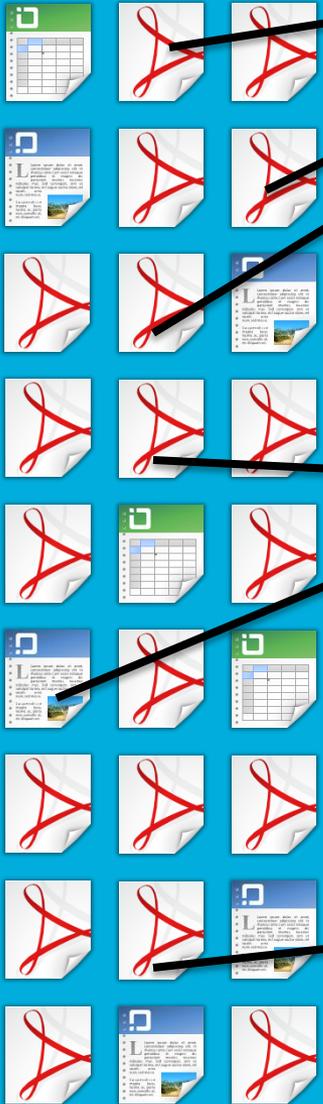
Websites

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**



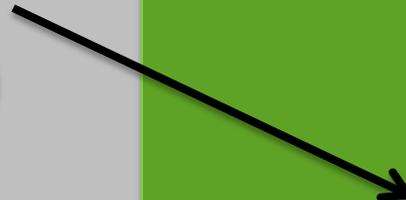
**Download
manually
from web**

Email

**CD or
Drive**

**North
Carolina
State
Government
Publications
Collection**

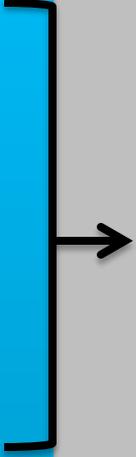
**Preservation
Storage**



The Web



North Carolina
State Government
web presence*



**Archive-
It**

**North
Carolina
State
Government
Web Site
Archives**

**Preservation
Storage**

*Not to scale, of course

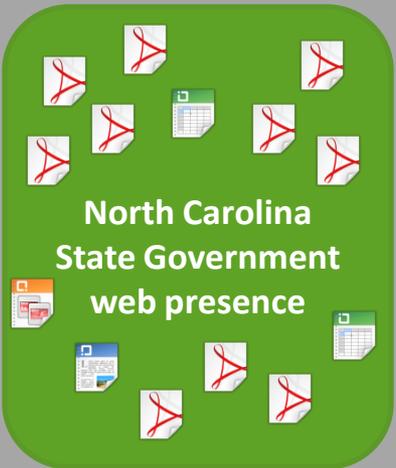
Drawbacks

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?

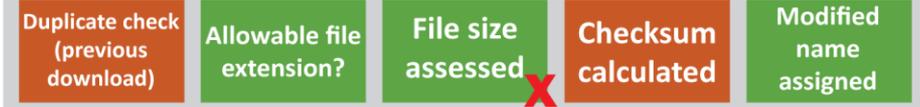
Preservation Storage

User logs in

User uploads file list

CINCH locates URLs in file list

Actions CINCH performs on remote files



CINCH downloads files

Actions CINCH performs on local files



CINCH creates ZIP file(s)

CINCH emails user

User downloads ZIP file(s)



AUDIT TRAIL for all actions

KEY

X If fails, file is deleted/not downloaded

Orange Box If fails, file is added to problem_files folder

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

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 than 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

XML-Sitemaps.com
Sitemap Generator

6.5k 10366 likes. Sign Up to see what your friends like.

Free Online Sitemap Generator Unlimited Sitemap Generator Online 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 independant 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.

http://

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

Duplicate check
(previous
download)

Allowable file
extension?

File size
assessed



Checksum
calculated

Modified
name
assigned

Actions CINCH performs on local files

Virus scan



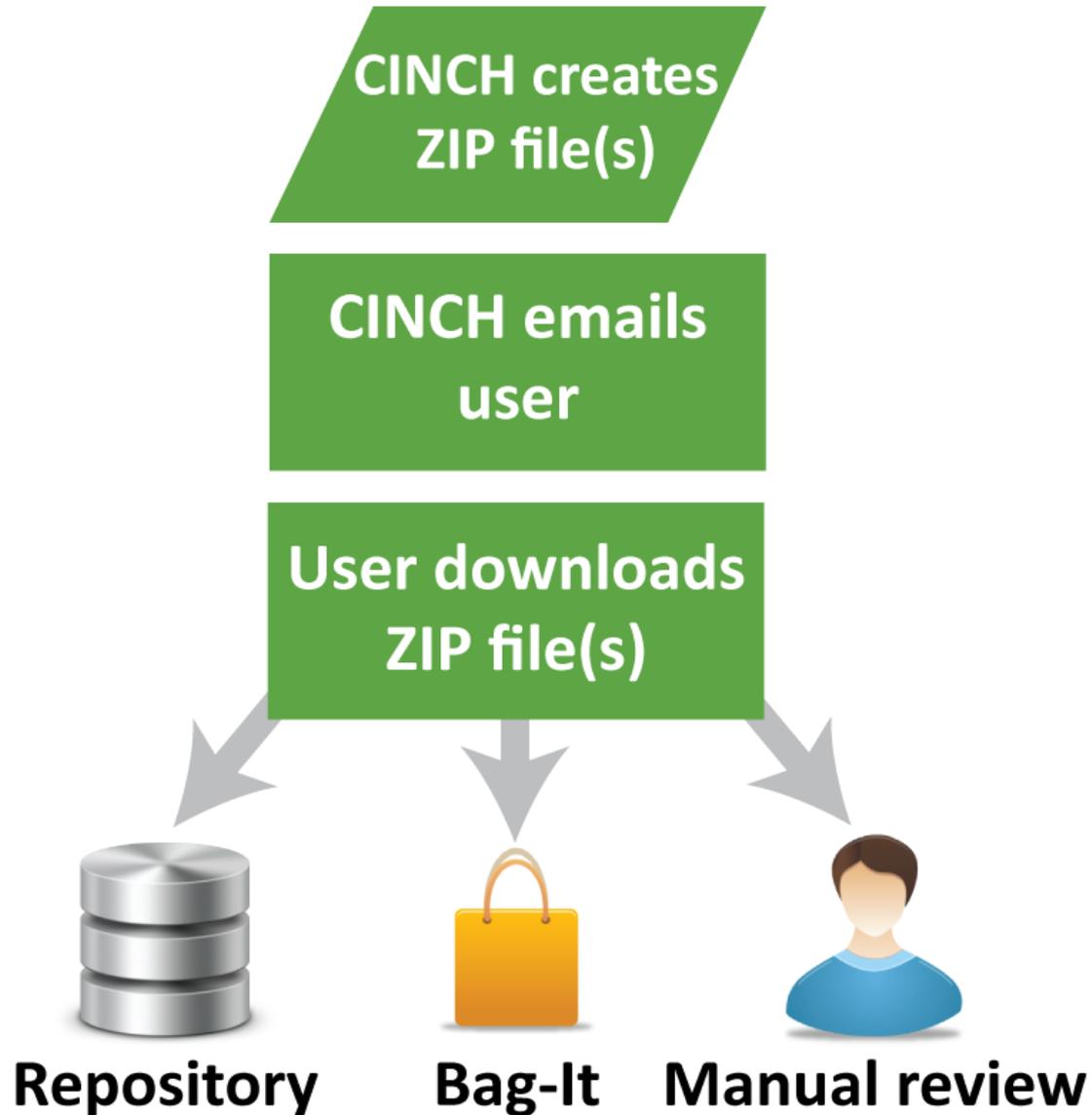
Last modified
date/time
verified, reset

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.NDCULTURE.COM



STATE LIBRARY
of NORTH CAROLINA



NC
live
.org



INS
MU

Problem files

Metadata, audit trail

Files

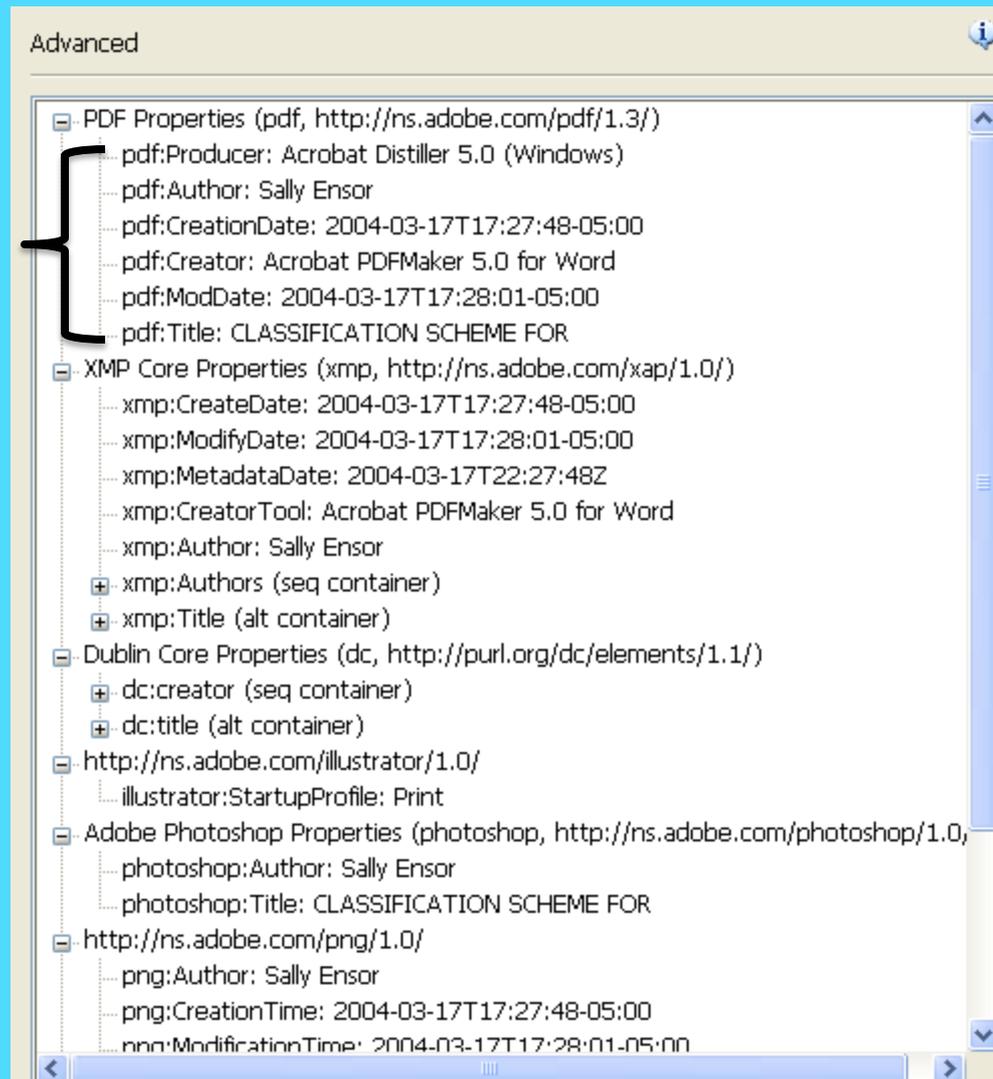
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event_list_2012_06_19.csv	31 KB	Microsoft Office Exc...	6/19/2012 6:30 PM
file_manifest_2012-06-19.csv	2 KB	Microsoft Office Exc...	6/19/2012 6:30 PM
PDF_Metadata_2012_06_19.csv	6 KB	Microsoft Office Exc...	6/19/2012 5:30 PM
statelibrary.ncdcr.gov_govdocs_classification_Classa.pdf	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
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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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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 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
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18	http://statelibrary.ncdcr.gov/govdocs/classification/classIntro.pdf	statelibrary.ncdcr.gov_govdocs_classification_classIntro.pdf	Local checksum creation 6/19/2012 1:45
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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
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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
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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
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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
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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
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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
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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
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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	4c38e61c7d6aaec288ba54c4176e9ff0b8698ba	Yes
			DEPARTMENT OFINSURANCEB1 Dept. of Insurance (c. 54, s. 3)	Division, Insurance, Dept., exists], Fire	e3a4dcfb7fadbe7a91d7743a666bcb9446de8ac9	Yes
			B:5	Dept., Division, publications, before, Development	2e77e6986448147eecfd5bf425ad59e1299399df	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 ANDELINQUENCY 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	11dff255e0d06d96b5c0a32572206f356f6dc6f53	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

**Where can I
get it?**

sinc-dimp.github.com/Cinch/

**North Carolina institutions will
be able to use a hosted version in
August, 2012.**

**I want more
information!**

cinch.nclive.org



Feedback welcome!

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