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# what does a web archive look like?

W/ARC (web archive container format)



"Buckets and Buckets" by Flickr user Josh Kenzer under CC BY-NC-SA 2.0

flat files, directory tree



"Files" by Flickr user Artform Canada under CC BY-NC-ND 2.0



#### HTTrack

http://www.httrack.com/

- small-scale website copier
- recreates website structure as filesystem hierarchy
- Windows GUI or CLI
- \*nix local web service or CLI



#### Heritrix

https://webarchive.jira.com/wiki/display/Heritrix/Heritrix

- web-scale archival crawler
- WARC output
- configure and run through web service
- Java app, runs best on \*nix



### Wget

http://archiveteam.org/index.php?title=Wget\_with\_WARC\_output

- retrieve Internetaccessible files
- supports WARC output
- CLI utility

#### WARCreate

http://matkelly.com/warcreate/

- archive single webpage(?) to WARC
- Chrome extension
- no production release yet
- may eventually bundle a selfcontained Wayback Machine



#### Warrick

http://warrick.cs.odu.edu/

- reconstruct website from web archives
- uses Memento protocol
- web service or downloadable Perl script



#### ArchiveFacebook

https://addons.mozilla.org/en-US/firefox/addon/archivefacebook/

- archive an individual (authenticated)
   Facebook profile
- · Firefox add-on





### Wayback Machine

https://github.com/internetarchive/wayback

- replay web resources stored in WARC and ARC files
- web service provided by Internet Archive
- also, downloadable software package
- Java app (Tomcat), runs best on \*nix

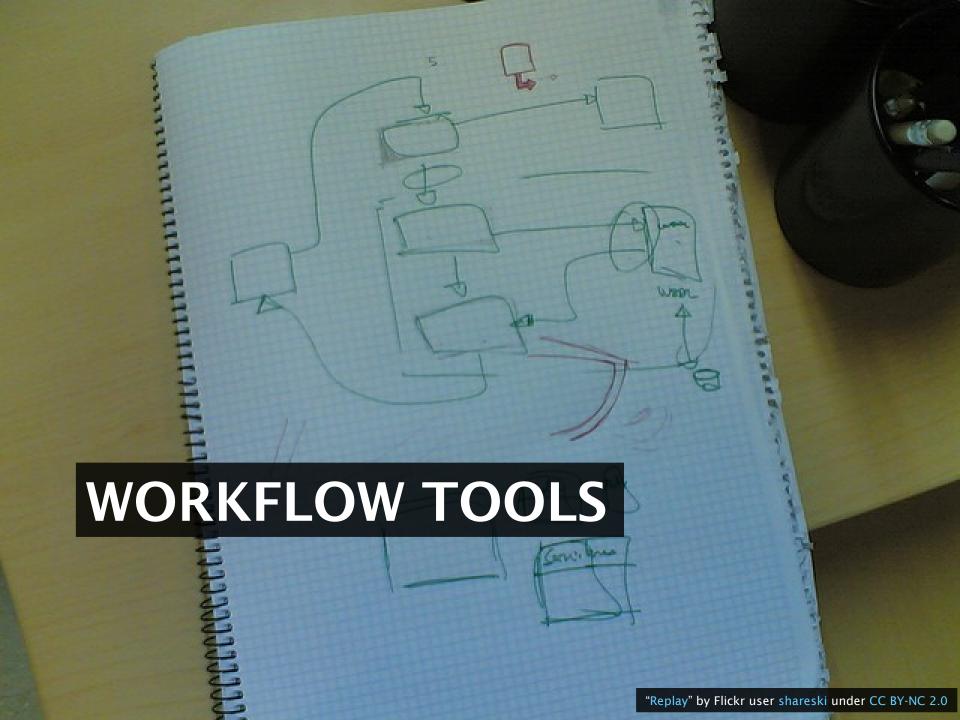


#### MementoFox

https://addons.mozilla.org/en-us/firefox/addon/mementofox/

- federated discovery of web archive resources
- uses Memento protocol
- utility limited by paucity of aggregated indexes





#### Web Curator Tool

http://webcurator.sourceforge.net/

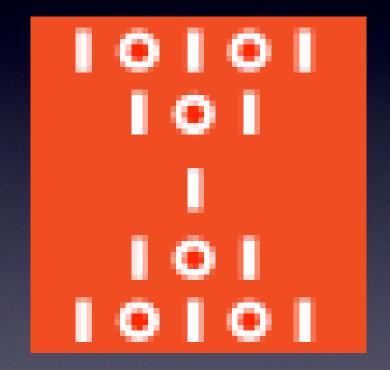
- permissioning, job scheduling, harvesting, quality review, storing descriptive metadata
- coupled with Heritrix v1.0
- Java app (Tomcat)



#### NetarchiveSuite

https://sbforge.org/display/NAS/NetarchiveSuite

- job scheduling, data transfer to preservation system, proxy replay
- built for national domain crawls
- coupled with Heritrix v1.0
- Java app (JMS)



#### CINCH

http://cinch.nclive.org/Cinch/

- batch retrieval of Internet-accessible documents and transfer to preservation system
- web service for NC state government
- also, downloadable software package
- runs on \*nix



# HOSTED SERVICES

"Services" by Flickr user spodzone under CC BY-NC-ND 2.0

#### Archive-It

http://www.archive-it.org/

- integrated web archiving platform
- uses Heritrix and Wayback Machine
- contract service provided by Internet Archive

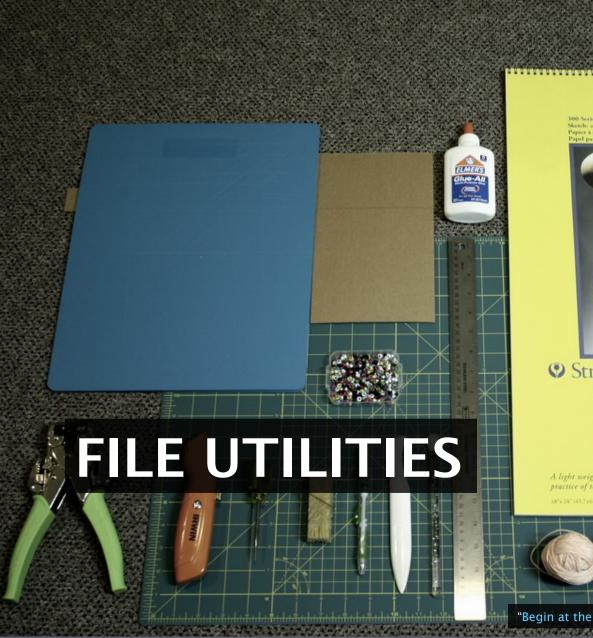


## Web Archiving Service

http://webarchives.cdlib.org/was

- integrated web archiving platform
- uses Heritrix and Wayback Machine
- contract service provided by California Digital Library







"Begin at the Beginning" by Flickr user kate e. did under CC BY-NC-SA 2.0

#### HTTrack2Arc

http://code.google.com/p/httrack2arc/

- convert HTTrack output to ARC format
- CLI Java utility

#### warc-tools

http://code.hanzoarchives.com/warc-tools

- parse and re-write
   WARC files
- convert ARC files to WARC files
- no production release yet
- CLI Python utilities

# Web Archive Transformation (WAT) Utilities

- extract metadata from WARCs for data analysis
- read data from local, http, or hdfsaccessible W/ARCs
- output JSON

https://webarchive.jira.com/wiki/display/Ire search/Web+Archive+Transformation+ %28WAT%29+Specification,+Utilities, +and+Usage+Overview

## thank you!

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