Please clean my data ©

Two scenarios

- 1. Cleaning harvested metadata (Dublin Core, MARC, EAC)
- 2. Cleaning OCR text

Vinita Tuteja National Library of Australia

Cleaning harvested data

WHY

Dirty data quite prominent in delivery systems

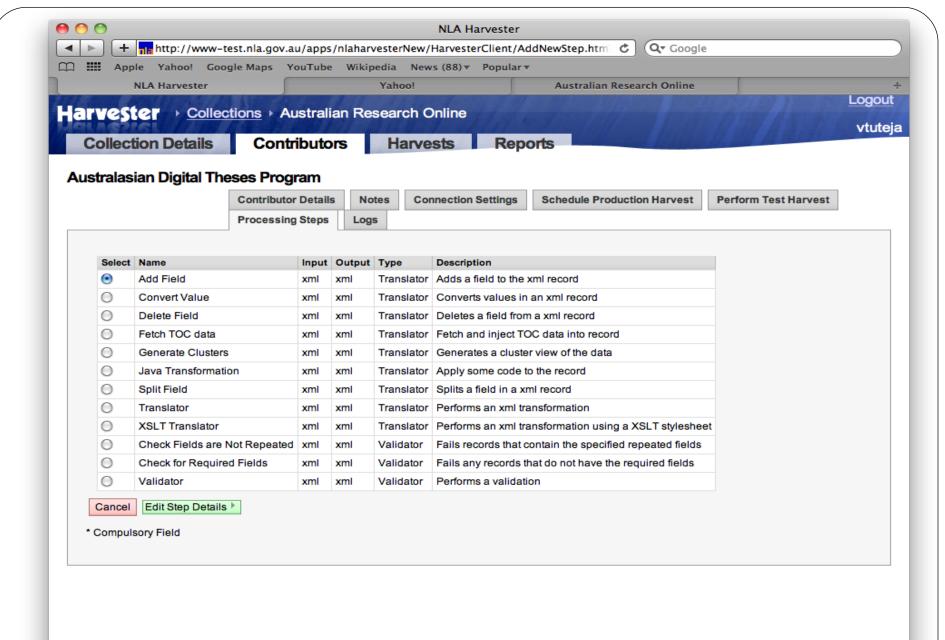
WHAT

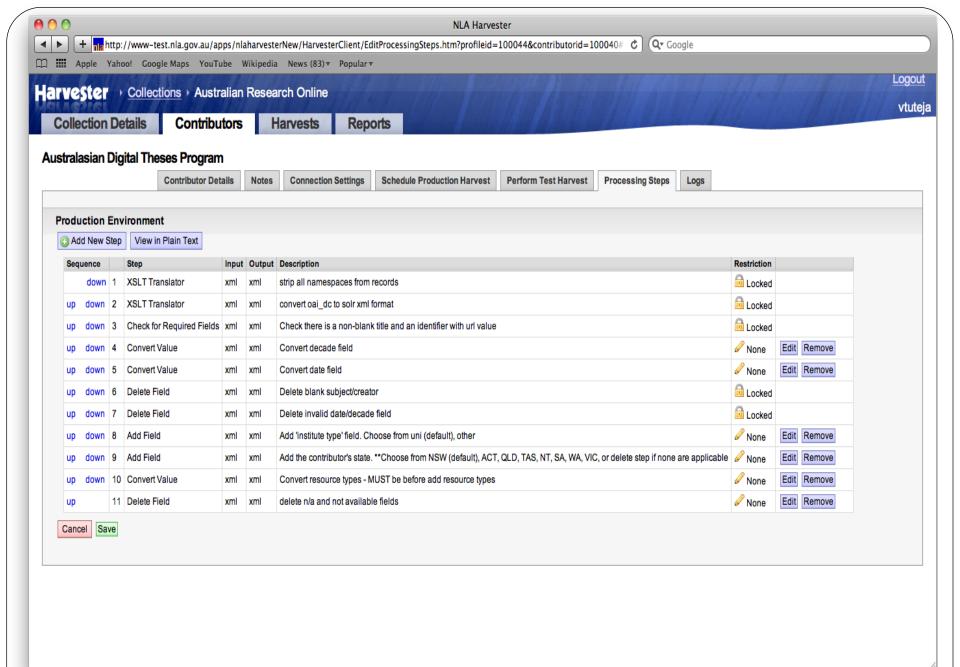
- Required tools to batch clean in a generic manner
- Should be simple enough for business owners to DIY

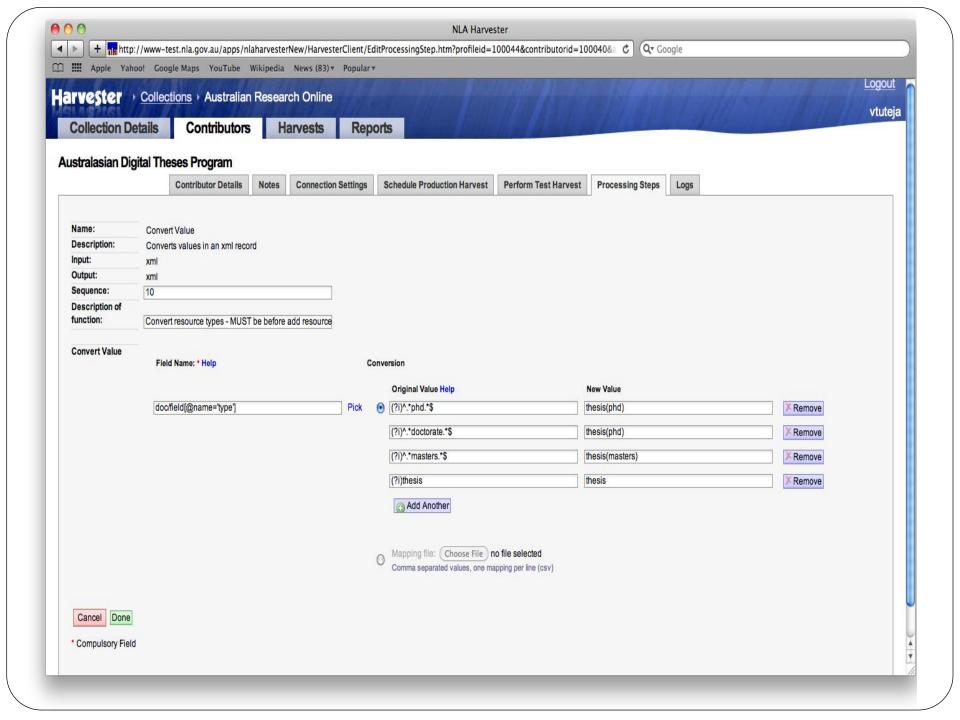
HOW

- Transformation and translation steps added to the harvesting process (all metadata records are in xml)
- Power of regular expressions made available as step templates e.g. Convert a value, delete a field, translate a step, add a new field
- Velocity Template variables used to store each regular expression match.

Using Velocity template variables gives us direct access to the xml elements (e.g. internally we store the xml document and matched element in \$D and \$E variables respectively). We then use the Java DOM4J API to do effectively whatever we wish. Velocity templates allow loops, if statements, variables, etc etc etc.







Summary Status: Stopped Environment: Test Total records read: 404 Record updates read: 404 View Records View Records as XML Download All Records Records updates rejected: 10 (2.48%) Record Errors: Stage Error Record Count Check for Required Fields Failed required field check on field doc/field[@name='title']

Attached Data

Check for Required Fields Failed required field check on field doc/field[@name="identifier"] 9

Log

UTC Time

Message

03.08.2009 03:52:08	Beginning Harvest [Local Time: 03.08.2009 13:52:08]	
03.08.2009 03:52:08	Fetching: http://metasuite.nun.unsw.edu.au:9004/CMD/OAI?verb=ListRecords&metadataPrefix=oai_dc&set=4E4F5428524 54C2853573B44432E4964656E7469666965723B4E42443A2929&from=2008-11-25T23:21:42Z	
03.08.2009 03:52:12	Harvested 101 records so far [Local Time: 03.08.2009 13:52:12]	
03.08.2009 03:52:15	Record 8 rejected Processing Step: 3 . Check for Required Fields Reason: Failed required field check on field doc/field[@name="identifier"] OAI ID: 201968	View Data
03.08.2009 03:52:19	Fetching: http://metasuite.nun.unsw.edu.au:9004/CMD/OAI?verb=ListRecords&resumptionToken=202444%7C122765530200 0%7C%7Coai_dc%7C4E4F542852454C2853573B44432E4964656E7469666965723B4E42443A2929	
03.08.2009 03:52:21	Harvested 202 records so far [Local Time: 03.08.2009 13:52:21]	
03.08.2009 03:52:23	Record 35 rejected Processing Step: 3 . Check for Required Fields Reason: Failed required field check on field doc/field[@name='title'] OAI ID: 202483	View Data
03.08.2009 03:52:23	Record 45 rejected Processing Step: 3 . Check for Required Fields Reason: Failed required field check on field doc/field[@name="identifier"] OAI ID: 202493	View Data
03.08.2009 03:52:26	Fetching: http://metasuite.nun.unsw.edu.au:9004/CMD/OAI?verb=ListRecords&resumptionToken=202620%7C122765530200 0%7C%7Coai_dc%7C4E4F542852454C2853573B44432E4964656E7469666965723B4E42443A2929	
03.08.2009 03:52:28	Harvested 303 records so far [Local Time: 03.08.2009 13:52:28]	
03.08.2009 03:52:29	Record 11 rejected Processing Step: 3 . Check for Required Fields Reason: Failed required field check on field doc/field[@name="identifier"] OAI ID: 203437	View Data

Cleaning Newspapers OCR Text

- We empowered our users to correct OCR data for us and it took a life of its own
- We have a wonderful community built around this feature diehard text correctors who compete with each other to feature in our top text correctors list
- They add value to the content by correcting the OCR, creating tags or leaving their comments.
- This has improved our indexes and hence the discovery of an article
- They create their own trails of discovery by using tags and make it available for others to follow
- WARNING!! This stuff is quite addictive.



Home | raga | About | Olio Hema | Comitact da | Fedubacit



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Australian Newspapers (1803-1954)

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Find an Issue

by Title 1. The Sydney Morning Herald 2. The Argus 3. The Mercury (Hobart) 4. Northern Territory Times and Gazette 5. Brisbane Courier Show all titles

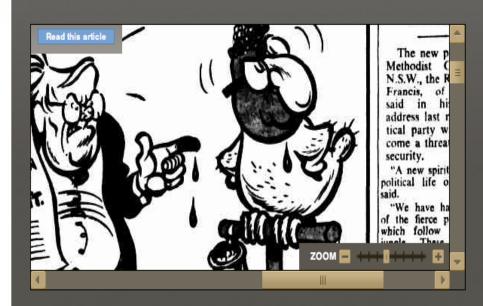


by Date							
1803							
JAN	FEB	MAR	A	APR			
MAY	JUN	JUL		AUG			
SEP	OCT	NOV	D	EC			
S M	Т	W T	F	S			

On this day THE SYDNEY MORNING HERALD (NSW: 1842-19..., WEDNESDAY 25 FEBRUARY 1953

Navigation tips for the example newspaper page below:

- . Scroll with the scrollbars or your scrollwheel.
- . Pan by clicking and dragging the image.
- . Zoom with the zoom controls in the bottom right.



Top Text-Correctors

- 1. jhempenstall (364740)
- 2. John.F.Hall (337656)
- 3. fwalker13 (303448)
- 4. annmanley (273112)
- 5. maurielyn (245182)

Recent Comments

"Wamboota" in the text should be Womboot... created 2010-02-25 11:51:43.0 by Corio

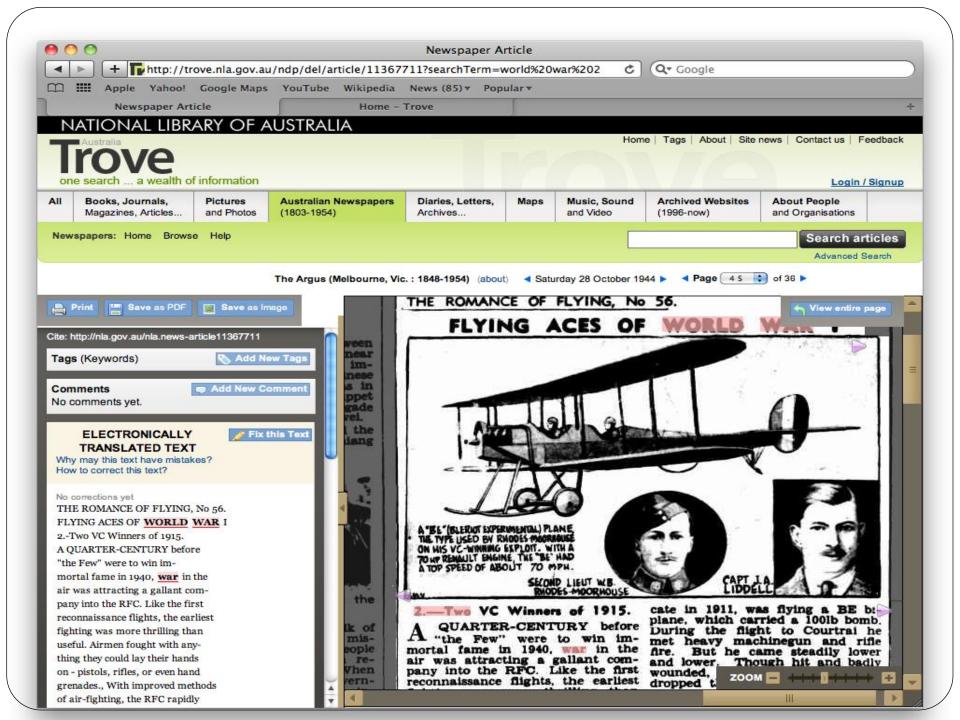
Total article editted.

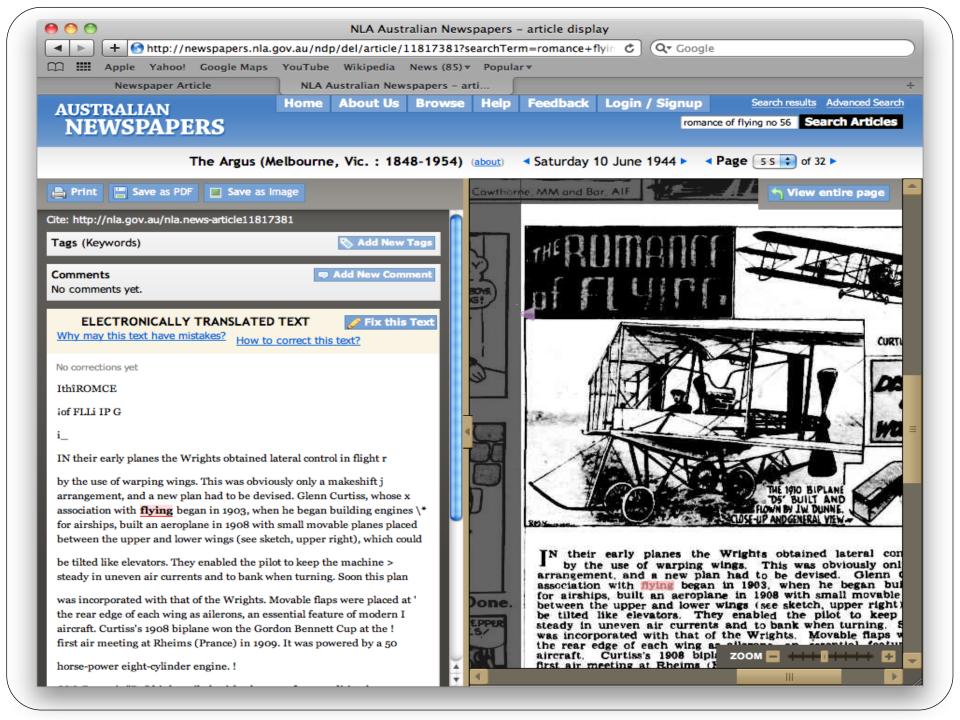
created 2010-02-24 21:48:15.0 by Bazza59

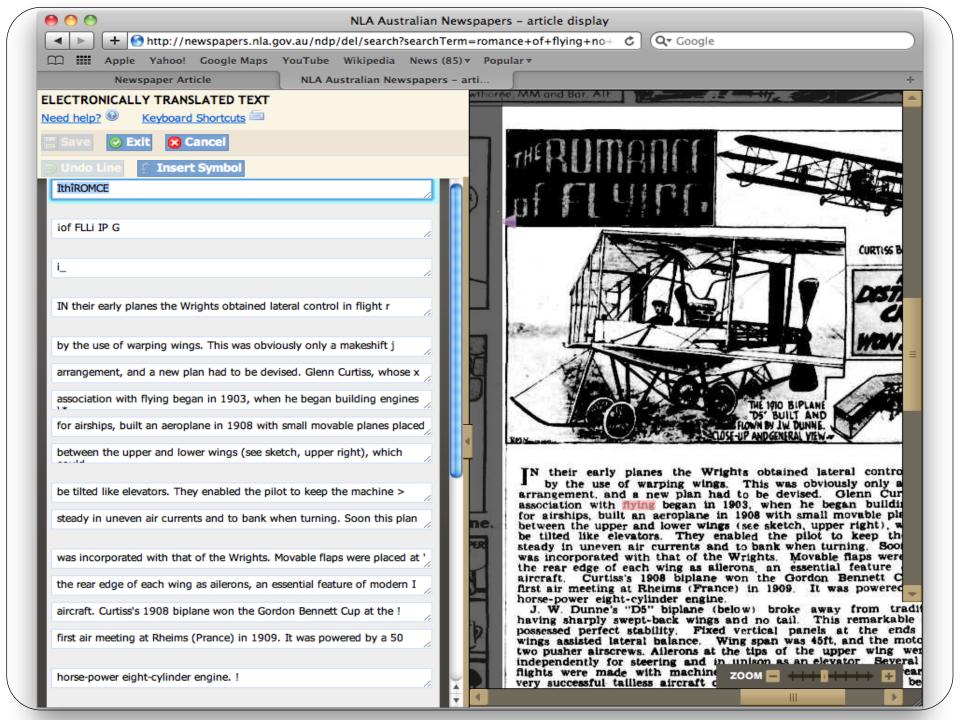
Recent Tags

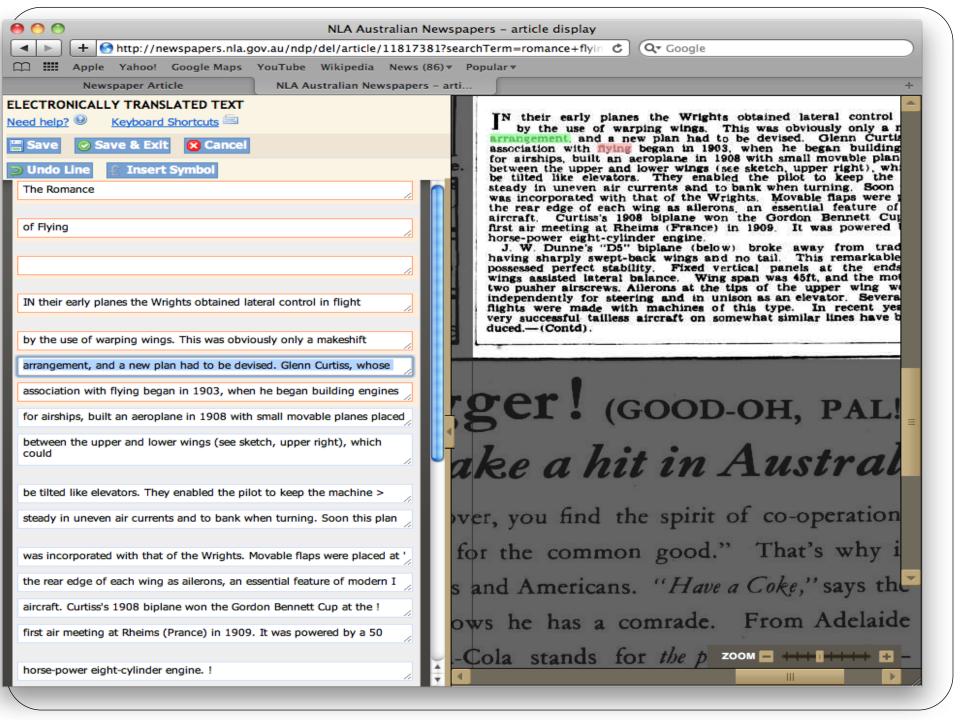
Hoare James James HOARE Elisha James Baynton Marian Heathcot Lucas

>> All tags









Text Correction Help

Why may this text have mistakes?

How to correct this text?

Keyboard shortcuts

To speed up the editing process, you can use keyboard shortcuts to navigate through the text and save your changes. Keyboard behaviour depends on your browser but in general:

- TAB allows you to move to the next line while Shift-TAB allows you to move to the previous line.
- Enter allows you to move to the next line.
- Up and Down arrow keys also allow you to move from line to line.
- Left and Right arrows allow you to move within a line or a text area. Use the Home and End keys to position the cursor at the beginning and end of the input field respectively.
- F12 allows you to move from word to word.
- Windows: Alt + s focuses the Save button, Alt + e focuses the Exit/Save & Exit button and Alt + x focuses the Cancel button. Hit Enter to perform the action. (These rely on browser "access key" functionality and may not work with all browsers.)
- MacOS X: Ctrl + s is equivalent to Save, Ctrl + e to Exit/Save & Exit and Ctrl + x to Cancel.

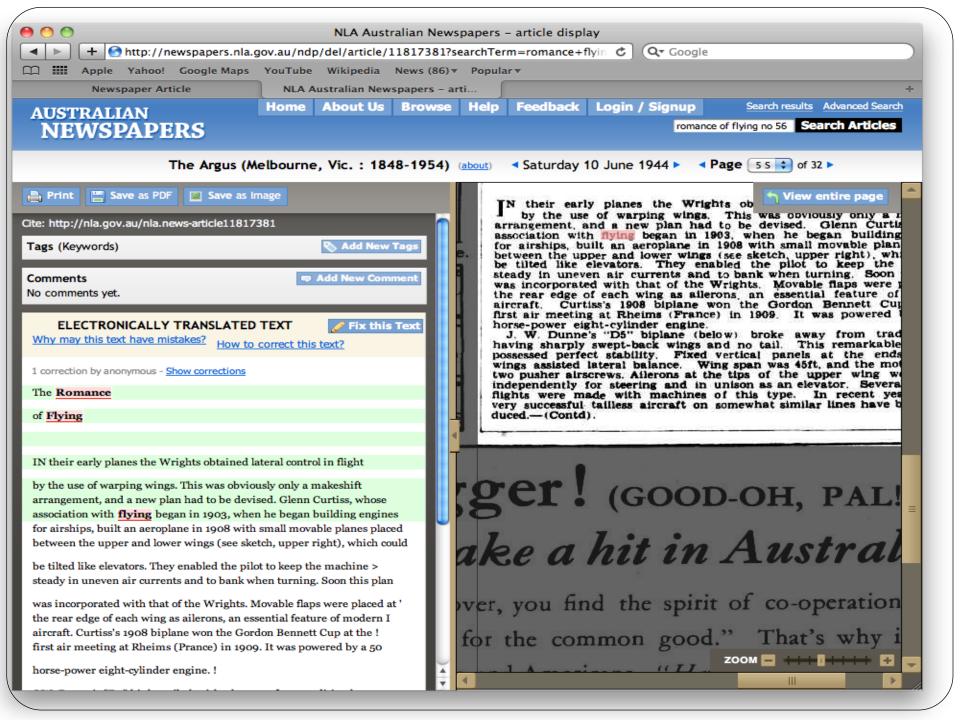
Special Characters

Missing Text

Multi-Page Articles

Searching on Your Changes





Urls

Harvester and Newspapers Service source code available from National Library of Australia's Code repository

https://code.nla.gov.au/

Newspapers Application

http://newspapers.nla.gov.au/ndp/del/home

http://trove.nla.gov.au/

Newspapers project details

http://www.nla.gov.au/ndp/project_details/