CS 751: Assignment 2

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1 Q1

- 1. Choose 100 URIs from A1
- 2. Generate WARC files of those URIs using: wget WARCreate Heritrix (standalone or via WAIL) webrecorder.io
- 3. Describe the resulting WARC files: quantitatively compare and contrast the results of the WARC files of the same URI as generated by different tools choose interesting examples
- 4. Demonstrate playback of 2-3 WARCs in the (Wayback Machine (via WAIL or stand-alone) or pywb) and (webrecorder.io) https://github.com/iipc/openwayback https://github.com/ikreymer/pywb

1.1 Description

- 1. The WARC files contain all the request headers, response headers and the html to render the recorded webpage.
- 2. The WARC file size generated by wget is the least amongst all the tools.
- 3. For few URLs, WARCreate did not generate WARC file despite of trying multiple times.
- 4. I replayed different WARC files using webrecorder io and included the screenshots in this report
- 5. I was having problem with pywb and hence was not able to replay the WARC files on it.

Replay of Different WARC files on webrecorder.io

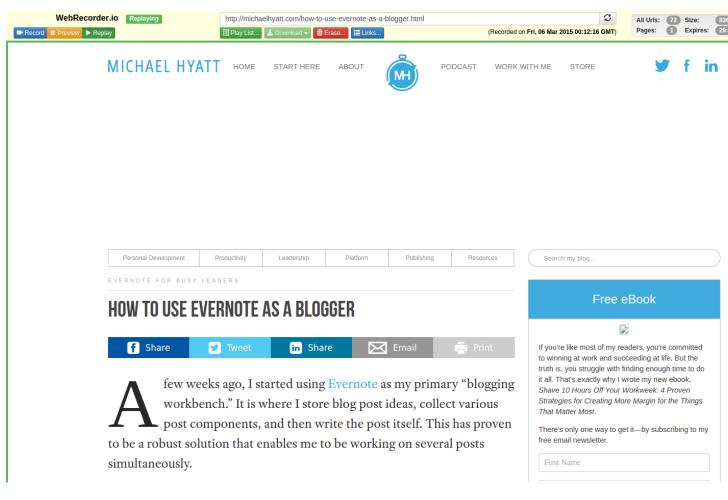


Figure 1:



Figure 2:

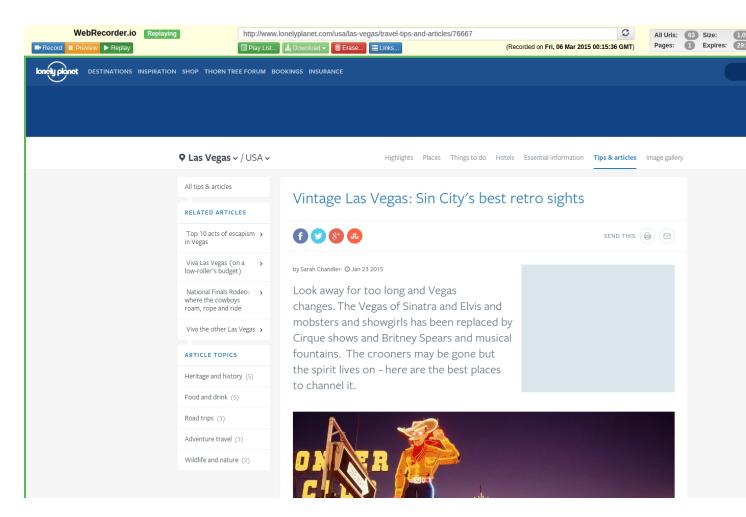


Figure 3:

2 Q2

- 1. Ingest the 100 URIs from their resulting WARC files into a SOLR instance see the code + tutorial at: https://github.com/ukwa/webarchive-discovery
- 2. Demonstrate several functioning queries on the files (a full front-end is not required) describe the configuration choices you made in setting up SOLR and processing the documents

2.1 Description

- $1.\ \, \text{I}$ configured a local SOLR instance and indexed 100 WARC files in it.
- 2. I used default configurations for SOLR.
- 3. I performed various queries on SOLR and included the resulting screenshots in this report.

Functioning queries on SOLR

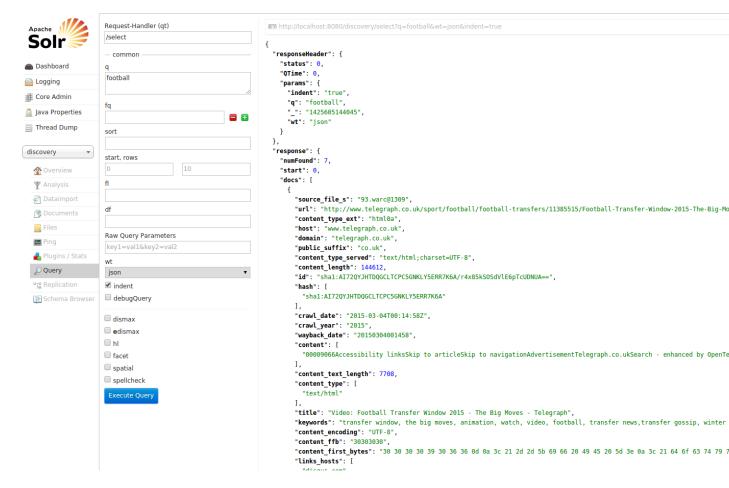


Figure 4: Search for 'football'

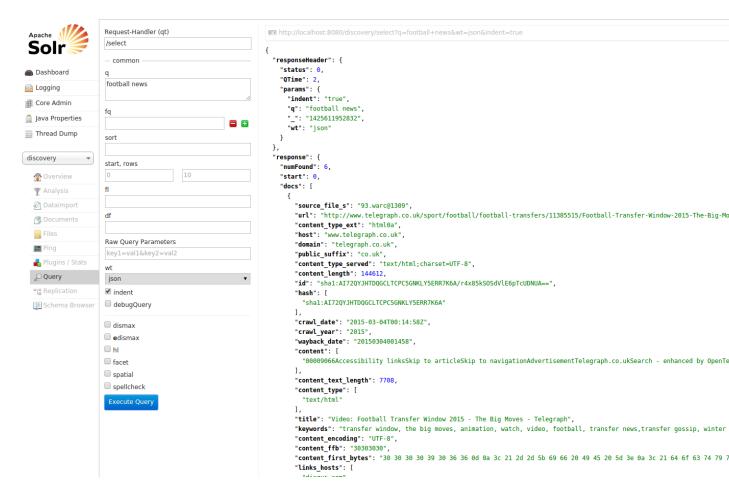


Figure 5: Search for 'football news'

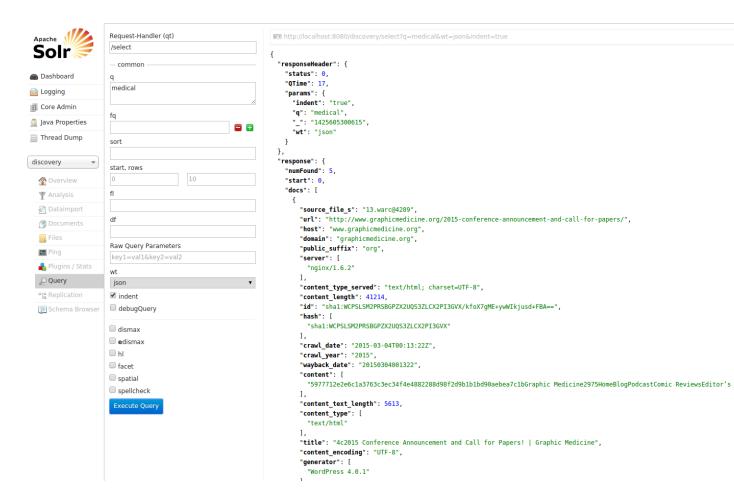


Figure 6: Search for 'medical'

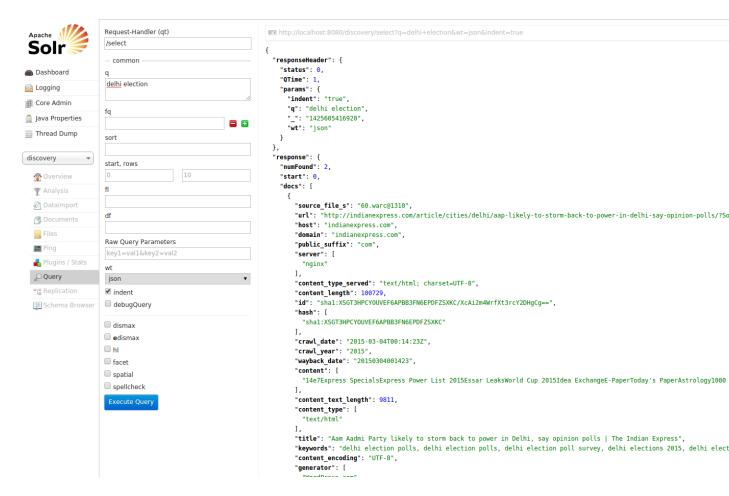


Figure 7: Search for 'delhi election'

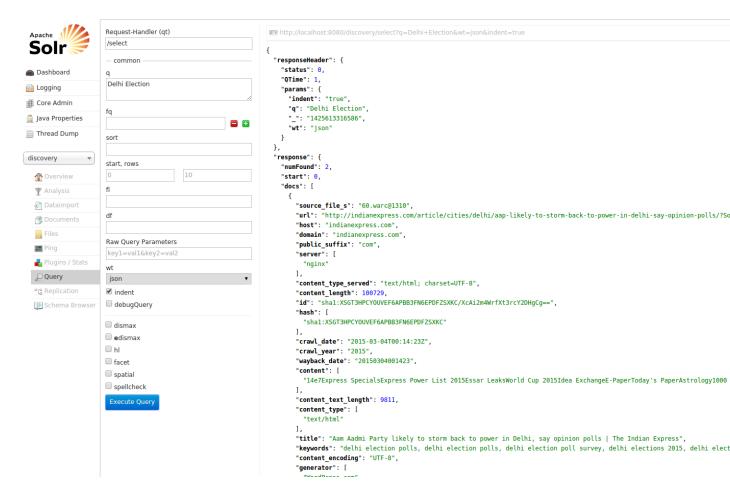


Figure 8: Search for 'Delhi Election' using different case than previous query

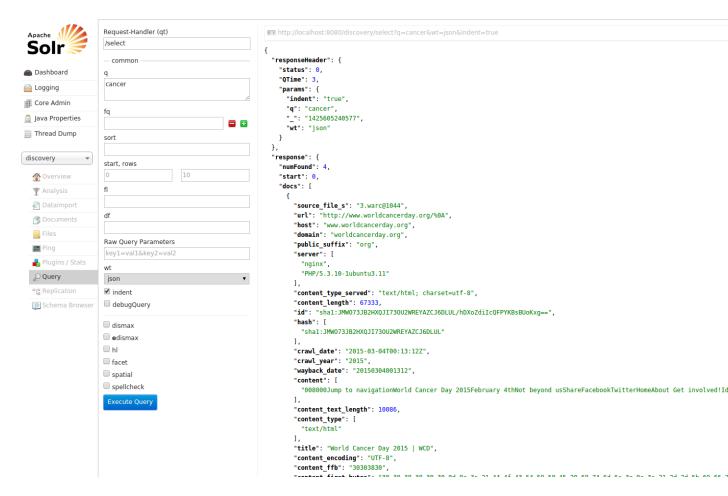


Figure 9: Search for 'cancer'

3 References

- $[1] \ {\bf OpenWayback \ \ https://github.com/iipc/openwayback}$

 - [2] Python WayBack for web archive replay, web proxy https://github.com/ikreymer/pywb [3] WARC and ARC indexing and discovery tool https://github.com/ukwa/webarchive-discovery