Rooting a DH Project in a 1930s WPA Project: The Annals of Cleveland

Demonstration website: https://wallandbinkley.com/projects/2019/annals-of-cleveland/ Code: https://github.com/pbinkley/annals-of-cleveland

for Black labels indicate in output of a processing The WPA is best known today for its infrastructure projects – roads, bridges, dams – but it encompassed a wider range of projects. The Annals of Cleveland newspaper project was a response to the call for projects that would employ clerical and white collar workers. The plan was to use their office skills to create a research tool for local history: a digest of Cleveland newspapers from 1818 forward. By the time the digest project closed in 1938 the Annals of Cleveland newspaper series had covered the years 1818-1876, comprising approximately 29,000 multigraphed pages (including indexes). It employed between 400 and 500 workers: abstractors, editors, typists, supervisors, as well as support staff such as carpenters and time keepers. The purpose of this part of the project is to expose various facets of the labor that produced this resource and projected it through eighty years of changes in information technology.

A work-in-progress data extraction and public website derived from the Depression-era Annals of Cleveland newspaper digest series, tracing the dependence of each project on the labour of previous projects.

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Newspaper

Files

"Works Progress Administration Newspaper Indexing at the

Akron Beacon Journal, 1938", reproduced with permission. https://cdm17124.contentdm.oclc.org/digital/collection/ ABJarchives/id/655

Annals of Cleveland **Print Volumes**

This poster attempts to trace the workflows of the WPA project and of subsequent projects which derived from it: the microfilming and digitization of the newspapers and of the WPA publications, down to my own data extraction project. The first column represents the workflow of the WPA project. Clerical workers wrote abstracts of items that dealt with local (i.e. Ohio) news and opinion (it was assumed that the New York Times Index provided adequate access to national and international news). The abstracts moved up an editorial chain, being proofread and accumulating metadata, and then being typed. The printers followed the layout of the typed forms precisely, so my parsing of the data from the OCR text depends on the skilled labour of the typists in preparing documents as much as on the training of the abstractors and editors.

The project operated under contradictory requirements. The federal priority was to move as many people as possible off the relief rolls and into employment; the budget for non-labour expenses therefore had to be kept to a minimum. Like other New Deal programs, though, the WPA was vulnerable to attack from the political right, which saw such projects as boondoggles at best, and creeping socialism at worst. The project therefore had to strike a balance between employing whatever workers were assigned by the WPA, and actually making progress on the digest. The project's publicity boasts of the academic utility of the product but also of the Fordian efficiency of the process. Labour relations in WPA projects are an interesting topic on which this project can shed light. The Workers Alliance of America, a "union of the unemployed", attempted to represent WPA workers across the nation, and succeeded in having an influence on the Annals of Cleveland project. Most of the evidence for the running of the project is in the papers of the Joint Committee on Materials for Research in the Library of Congress. These enable a tantalisingly incomplete reconstruction of the **working methods** of the project as they evolved. At the end of 1937 the digest project was replaced by a new approach based on indexing alone, supplemented by publication on microfilm of the source newspapers – one of the earliest large-scale microfilming projects.

Project (1935 - 1938)





The Annals of Cleveland volumes were the subject of a previous datafication project by Samuel Kernell and Gary C. Jacobson in the mid-1980s, dealing with newspaper coverage of congress and the presidency in the 19th century. Data for ten sample years was coded by hand and transferred to **punch cards** for analysis.

The digitization of the published volumes by the Google Books project and by the library of Case Western opened the way for an attempt at a comprehensive approach. A Ruby script uses regular **expressions** to parse the data elements out of the OCR text; this involves an iterative process, first identifying gaps in the parsed page and abstract numbers, fixing the OCR or enhancing the regexes, running it again, etc. Once the abstracts are detected, a similar process extracts the date, page, column, etc. Other processes handle the indexes and subject headings. The complexity in this script lies in the regular expressions, which have to account for the layout of the original printed abstracts and the variants introduced by the OCR process. The regex that looks for a "see also" references provides a simple example: /^See [Aa]1[s§][Qo]/. The resulting ability to process in bulk brings the required human labour down to the point where a single person with a laptop could conceivably handle the extraction of the data encoded by the labour of hundreds of WPA workers in 1930s Cleveland.