

Newspaper Image Clustering Results

This report shows clustering of newspaper images based on semantic similarity of their regions, weighted by region size.

Number of newspapers analyzed: 19

Number of clusters: 10

Generated on: 2025-03-03 01:39:27

Similarity Statistics

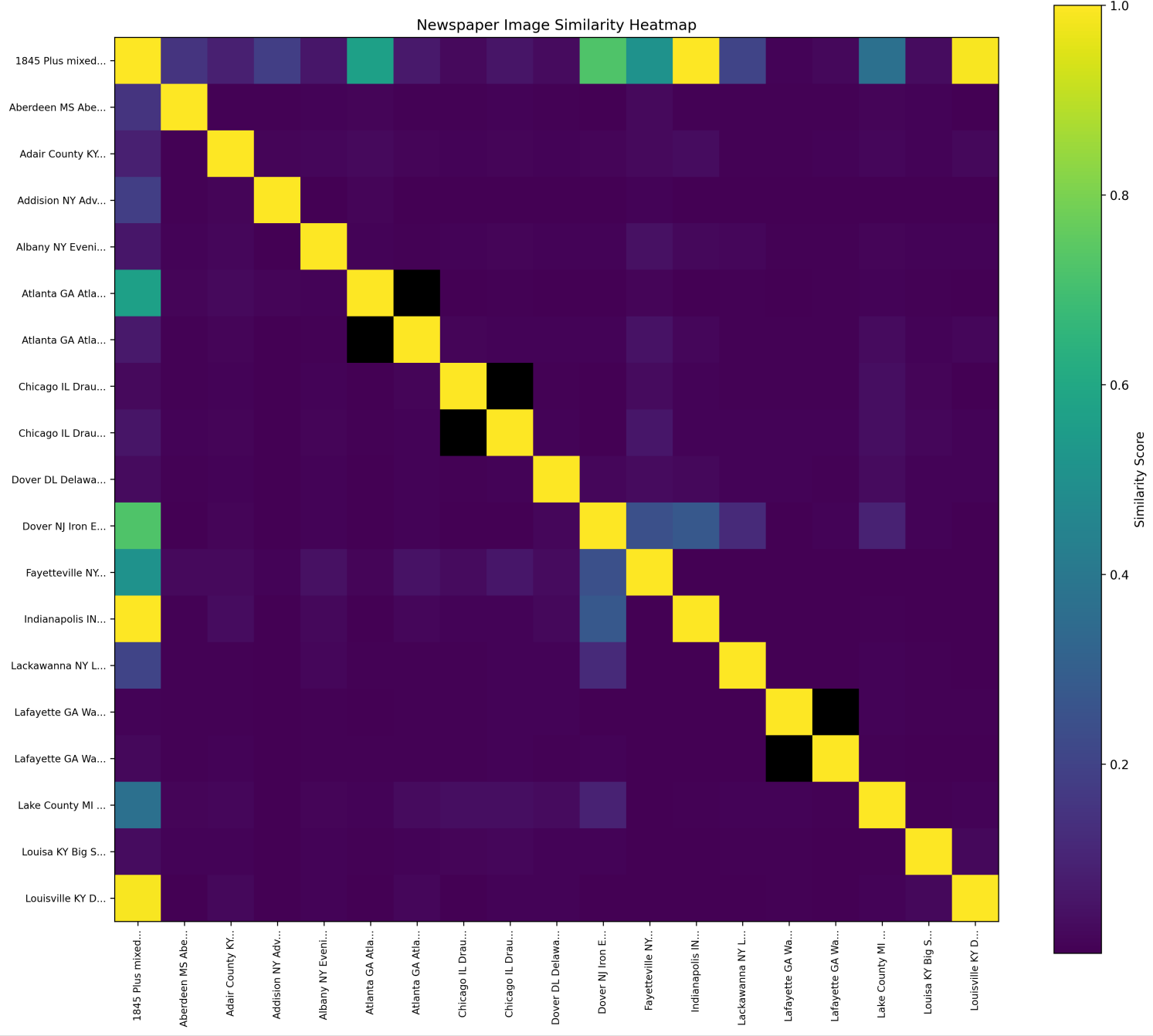
Non-zero similarity pairs: 152

Average non-zero similarity: 0.1915

Max similarity between different images: 1.0000

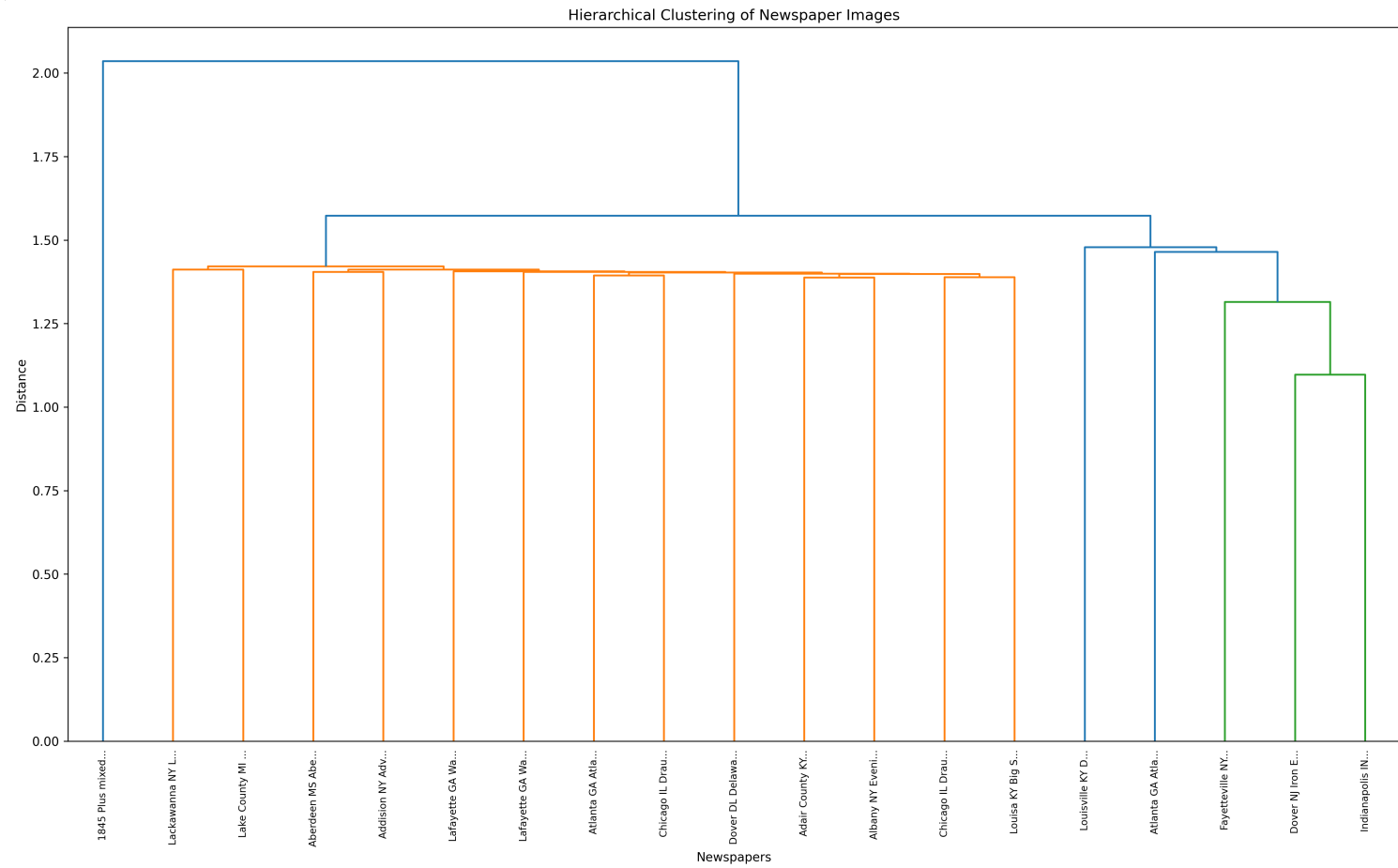
Visualizations

Similarity Heatmap



Heatmap showing pairwise similarities between newspaper images, based on weighted region comparisons.

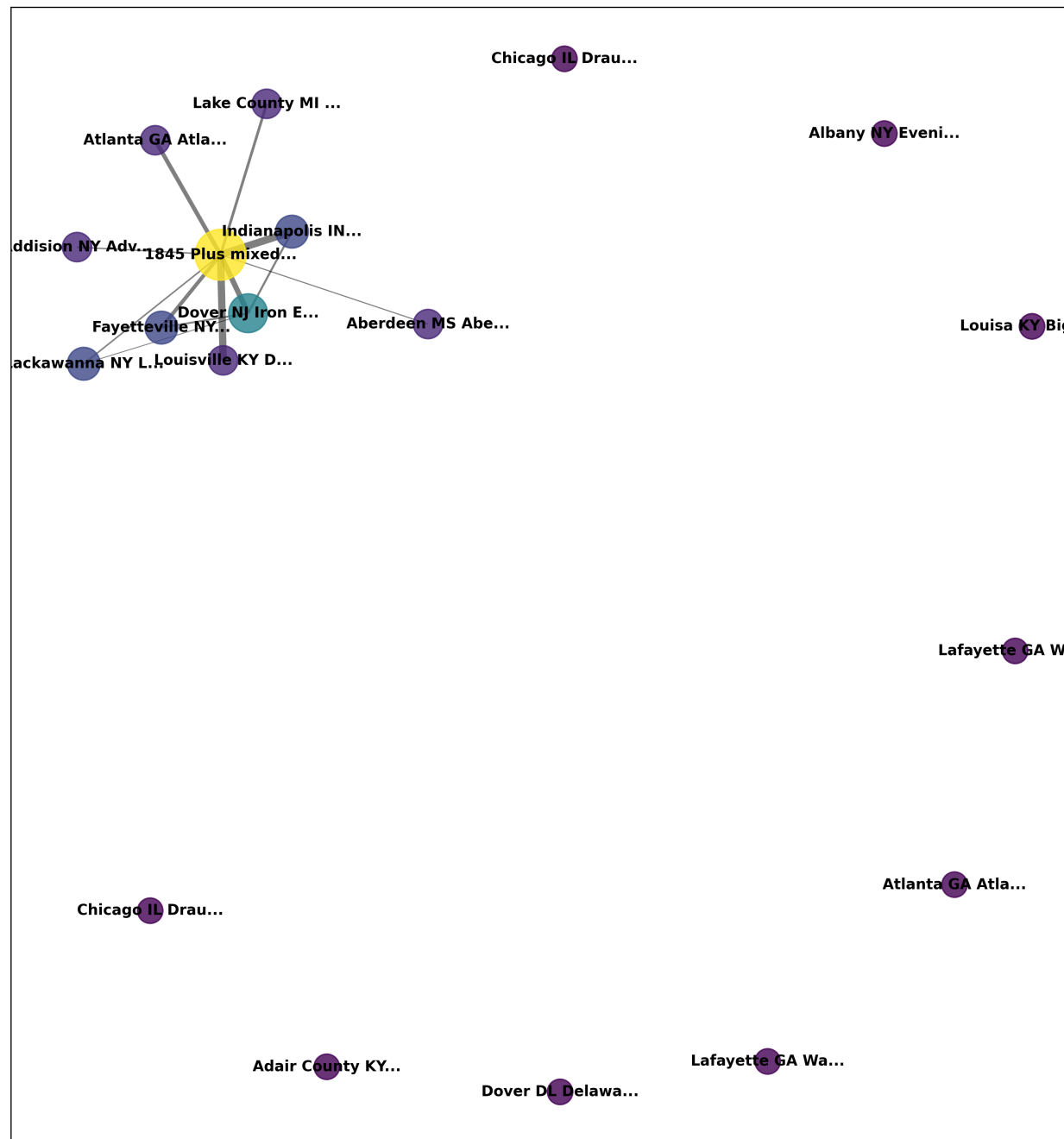
Hierarchical Clustering Dendrogram



Dendrogram showing hierarchical clustering of newspapers. Newspapers that are more similar appear closer together.

Similarity Network

Newspaper Similarity Network



Network graph showing relationships between newspapers. Connected newspapers have significant region similarity.

Clusters

Cohesion: 0.000

Cluster 7

Contains 1 newspapers.

Newspaper
1845 Plus mixed papers and dates 00104_1.pdf_30d626cc62_page_0000.png

Cohesion: 0.000

Cluster 9

Contains 1 newspapers.

Newspaper
Aberdeen MS Aberdeen Weekly 1920 07-02_0010.pdf_a8c7630f9a_page_0000.png

Cohesion: 0.000

Cluster 0

Contains 8 newspapers.

Newspaper
Adair County KY News 1900-1908 (413).pdf_6bbfbff388_page_0000.png
Albany NY Evening Atlas 1843 00155.pdf_231f04d82f_page_0000.png
Atlanta GA Atlanta Georgian And News 1907 03 30 e_1.pdf_ac8c99ae53_page_0000.png
Chicago IL Draugas 1978 00284_1.pdf_272a4fdf55_page_0000.png
Chicago IL Draugas 1980 00098_2.pdf_e7f7e5a65a_page_0000.png
Dover DL Delawarean 1900 07_0151.pdf_0d52995bd9_page_0000.png
Lafayette GA Walker County Messenger 1947 Apr-Jun 1949 - 0873.pdf_c393330fca_page_0000.png
Louisa KY Big Sandy News 1918-08-16_3.pdf_479975d158_page_0000.png

Cohesion: 0.000

Cluster 5

Contains 1 newspapers.

Newspaper
Addision NY Advertiser 1883-1887 - 0001.pdf_387d113864_page_0000.png

Cohesion: 0.000

Cluster 4

Contains 1 newspapers.

Newspaper
Atlanta GA Atlanta Georgian And News 1907 03 16 e_4.pdf_f31f9fd5bb_page_0000.png

Cohesion: 0.000

Cluster 2

Contains 3 newspapers.

Newspaper
Dover NJ Iron Era 1873 00188.pdf_57901e18d5_page_0000.png
Fayetteville NY Weekly Recorder 1878 - 1881 - 0679.pdf_29a1386ada_page_0000.png
Indianapolis IN News 1889 03-12_4.pdf_88e0cd7fe6_page_0000.png

Cohesion: 0.000

Cluster 8

Contains 1 newspapers.

Newspaper
Lackawanna NY Leader 1951-1953 - 0203.pdf_88f8361e28_page_0000.png

Cohesion: 0.000

Cluster 3

Contains 1 newspapers.

Newspaper

Lafayette GA Walker County Messenger 1961 Oct-May 1963 - 1211.pdf_f50bd4e0f5_page_0000.png

Cohesion: 0.000

Cluster 6

Contains 1 newspapers.

Newspaper
Lake County MI Newspapers 1879-1920 (2214).pdf_ac7bc3a4b0_page_0000.png

Cohesion: 0.000

Cluster 1

Contains 1 newspapers.

Newspaper
Louisville KY Daily Democrat 1864-12-02_1.pdf_a394512c56_page_0000.png

Top Similarities

Newspaper 1	Newspaper 2	Similarity
1845 Plus mixed papers and dates 00104_1.pdf_30d626cc62_page_0000.png	Indianapolis IN News 1889 03-12_4.pdf_88e0cd7fe6_page_0000.png	1.0000
1845 Plus mixed papers and dates 00104_1.pdf_30d626cc62_page_0000.png	Louisville KY Daily Democrat 1864-12-02_1.pdf_a394512c56_page_0000.png	0.9906
1845 Plus mixed papers and dates 00104_1.pdf_30d626cc62_page_0000.png	Dover NJ Iron Era 1873 00188.pdf_57901e18d5_page_0000.png	0.7240
1845 Plus mixed papers and dates 00104_1.pdf_30d626cc62_page_0000.png	Atlanta GA Atlanta Georgian And News 1907 03 16 e_4.pdf_f31f9fd5bb_page_0000.png	0.5697
1845 Plus mixed papers and dates 00104_1.pdf_30d626cc62_page_0000.png	Fayetteville NY Weekly Recorder 1878 - 1881 - 0679.pdf_29a1386ada_page_0000.png	0.5118
1845 Plus mixed papers and dates 00104_1.pdf_30d626cc62_page_0000.png	Lake County MI Newspapers 1879-1920 (2214).pdf_ac7bc3a4b0_page_0000.png	0.3701
Dover NJ Iron Era 1873 00188.pdf_57901e18d5_page_0000.png	Indianapolis IN News 1889 03-12_4.pdf_88e0cd7fe6_page_0000.png	0.2768
Dover NJ Iron Era 1873 00188.pdf_57901e18d5_page_0000.png	Fayetteville NY Weekly Recorder 1878 - 1881 - 0679.pdf_29a1386ada_page_0000.png	0.2443
1845 Plus mixed papers and dates 00104_1.pdf_30d626cc62_page_0000.png	Lackawanna NY Leader 1951-1953 - 0203.pdf_88f8361e28_page_0000.png	0.2042

1845 Plus mixed papers and dates 00104_1.pdf_30d626cc62_page_0000.png	Addision NY Advertiser 1883-1887 - 0001.pdf_387d113864_page_0000.png	0.1847
1845 Plus mixed papers and dates 00104_1.pdf_30d626cc62_page_0000.png	Aberdeen MS Aberdeen Weekly 1920 07-02_0010.pdf_a8c7630f9a_page_0000.png	0.1503
Dover NJ Iron Era 1873 00188.pdf_57901e18d5_page_0000.png	Lackawanna NY Leader 1951-1953 - 0203.pdf_88f8361e28_page_0000.png	0.1198
Dover NJ Iron Era 1873 00188.pdf_57901e18d5_page_0000.png	Lake County MI Newspapers 1879-1920 (2214).pdf_ac7bc3a4b0_page_0000.png	0.0958
1845 Plus mixed papers and dates 00104_1.pdf_30d626cc62_page_0000.png	Adair County KY News 1900-1908 (413).pdf_6bbfbff388_page_0000.png	0.0874
1845 Plus mixed papers and dates 00104_1.pdf_30d626cc62_page_0000.png	Atlanta GA Atlanta Georgian And News 1907 03 30 e_1.pdf_ac8c99ae53_page_0000.png	0.0672
1845 Plus mixed papers and dates 00104_1.pdf_30d626cc62_page_0000.png	Albany NY Evening Atlas 1843 00155.pdf_231f04d82f_page_0000.png	0.0619
Chicago IL Draugas 1980 00098_2.pdf_e7f7e5a65a_page_0000.png	Fayetteville NY Weekly Recorder 1878 - 1881 - 0679.pdf_29a1386ada_page_0000.png	0.0602
1845 Plus mixed papers and dates 00104_1.pdf_30d626cc62_page_0000.png	Chicago IL Draugas 1980 00098_2.pdf_e7f7e5a65a_page_0000.png	0.0567
Atlanta GA Atlanta Georgian And News 1907 03 30 e_1.pdf_ac8c99ae53_page_0000.png	Fayetteville NY Weekly Recorder 1878 - 1881 - 0679.pdf_29a1386ada_page_0000.png	0.0482
Albany NY Evening Atlas 1843 00155.pdf_231f04d82f_page_0000.png	Fayetteville NY Weekly Recorder 1878 - 1881 - 0679.pdf_29a1386ada_page_0000.png	0.0454
Chicago IL Draugas 1978 00284_1.pdf_272a4fdf55_page_0000.png	Lake County MI Newspapers 1879-1920 (2214).pdf_ac7bc3a4b0_page_0000.png	0.0367
Chicago IL Draugas 1980 00098_2.pdf_e7f7e5a65a_page_0000.png	Lake County MI Newspapers 1879-1920 (2214).pdf_ac7bc3a4b0_page_0000.png	0.0364
Adair County KY News 1900-1908 (413).pdf_6bbfbff388_page_0000.png	Indianapolis IN News 1889 03-12_4.pdf_88e0cd7fe6_page_0000.png	0.0328
1845 Plus mixed papers and dates 00104_1.pdf_30d626cc62_page_0000.png	Louisa KY Big Sandy News 1918-08-16_3.pdf_479975d158_page_0000.png	0.0323
Atlanta GA Atlanta Georgian And News 1907 03 30 e_1.pdf_ac8c99ae53_page_0000.png	Lake County MI Newspapers 1879-1920 (2214).pdf_ac7bc3a4b0_page_0000.png	0.0314
Dover DL Delawarean 1900 07_0151.pdf_0d52995bd9_page_0000.png	Lake County MI Newspapers 1879-1920 (2214).pdf_ac7bc3a4b0_page_0000.png	0.0307
Dover DL Delawarean 1900 07_0151.pdf_0d52995bd9_page_0000.png	Fayetteville NY Weekly Recorder 1878 - 1881 - 0679.pdf_29a1386ada_page_0000.png	0.0305
Chicago IL Draugas 1978 00284_1.pdf_272a4fdf55_page_0000.png	Fayetteville NY Weekly Recorder 1878 - 1881 - 0679.pdf_29a1386ada_page_0000.png	0.0282
1845 Plus mixed papers and dates	Dover DL Delawarean 1900 07_0151.pdf_0d52995bd9_page_0000.png	0.0281

00104_1.pdf_30d626cc62_page_0000.png		
Adair County KY News 1900-1908 (413).pdf_6bbfbff388_page_0000.png	Atlanta GA Atlanta Georgian And News 1907 03 16 e_4.pdf_f31f9fd5bb_page_0000.png	0.0273
Adair County KY News 1900-1908 (413).pdf_6bbfbff388_page_0000.png	Fayetteville NY Weekly Recorder 1878 - 1881 - 0679.pdf_29a1386ada_page_0000.png	0.0249
Aberdeen MS Aberdeen Weekly 1920 07-02_0010.pdf_a8c7630f9a_page_0000.png	Fayetteville NY Weekly Recorder 1878 - 1881 - 0679.pdf_29a1386ada_page_0000.png	0.0247
1845 Plus mixed papers and dates 00104_1.pdf_30d626cc62_page_0000.png	Chicago IL Draugas 1978 00284_1.pdf_272a4fdf55_page_0000.png	0.0244
Adair County KY News 1900-1908 (413).pdf_6bbfbff388_page_0000.png	Louisville KY Daily Democrat 1864-12-02_1.pdf_a394512c56_page_0000.png	0.0235
1845 Plus mixed papers and dates 00104_1.pdf_30d626cc62_page_0000.png	Lafayette GA Walker County Messenger 1961 Oct-May 1963 - 1211.pdf_f50bd4e0f5_page_0000.png	0.0216
Albany NY Evening Atlas 1843 00155.pdf_231f04d82f_page_0000.png	Indianapolis IN News 1889 03-12_4.pdf_88e0cd7fe6_page_0000.png	0.0215
Louisa KY Big Sandy News 1918-08-16_3.pdf_479975d158_page_0000.png	Louisville KY Daily Democrat 1864-12-02_1.pdf_a394512c56_page_0000.png	0.0210
Dover DL Delawarean 1900 07_0151.pdf_0d52995bd9_page_0000.png	Indianapolis IN News 1889 03-12_4.pdf_88e0cd7fe6_page_0000.png	0.0210
Adair County KY News 1900-1908 (413).pdf_6bbfbff388_page_0000.png	Albany NY Evening Atlas 1843 00155.pdf_231f04d82f_page_0000.png	0.0194
Chicago IL Draugas 1980 00098_2.pdf_e7f7e5a65a_page_0000.png	Louisa KY Big Sandy News 1918-08-16_3.pdf_479975d158_page_0000.png	0.0192
Adair County KY News 1900-1908 (413).pdf_6bbfbff388_page_0000.png	Lake County MI Newspapers 1879-1920 (2214).pdf_ac7bc3a4b0_page_0000.png	0.0180
Dover DL Delawarean 1900 07_0151.pdf_0d52995bd9_page_0000.png	Dover NJ Iron Era 1873 00188.pdf_57901e18d5_page_0000.png	0.0175
Atlanta GA Atlanta Georgian And News 1907 03 30 e_1.pdf_ac8c99ae53_page_0000.png	Indianapolis IN News 1889 03-12_4.pdf_88e0cd7fe6_page_0000.png	0.0168
Atlanta GA Atlanta Georgian And News 1907 03 30 e_1.pdf_ac8c99ae53_page_0000.png	Louisville KY Daily Democrat 1864-12-02_1.pdf_a394512c56_page_0000.png	0.0167
Albany NY Evening Atlas 1843 00155.pdf_231f04d82f_page_0000.png	Lackawanna NY Leader 1951-1953 - 0203.pdf_88f8361e28_page_0000.png	0.0162
Albany NY Evening Atlas 1843 00155.pdf_231f04d82f_page_0000.png	Lake County MI Newspapers 1879-1920 (2214).pdf_ac7bc3a4b0_page_0000.png	0.0160
Albany NY Evening Atlas 1843 00155.pdf_231f04d82f_page_0000.png	Chicago IL Draugas 1980 00098_2.pdf_e7f7e5a65a_page_0000.png	0.0154
Atlanta GA Atlanta Georgian And News 1907 03 30 e_1.pdf_ac8c99ae53_page_0000.png	Chicago IL Draugas 1978 00284_1.pdf_272a4fdf55_page_0000.png	0.0151
Addision NY Advertiser 1883-1887 - 0001.pdf_387d113864_page_0000.png	Atlanta GA Atlanta Georgian And News 1907 03 16 e_4.pdf_f31f9fd5bb_page_0000.png	0.0151
Adair County KY News 1900-1908 (413).pdf_6bbfbff388_page_0000.png	Dover NJ Iron Era 1873 00188.pdf_57901e18d5_page_0000.png	0.0147

Similarity Matrix

Newspaper	1845 Plus mixed...	Aberdeen MS Abe...	Adair County KY...	Addision NY Adv...	Albany NY Eveni...	Atlanta GA Atla...	Atlanta GA Atla...	Chicago IL Drau...	Chicago IL Drau...	Dover DL Delawa...	Dover NJ Iron E...	Fayetteville NY...	Indianapolis IN...	Lackawanna NY L...	Lafayette GA Wa...	Lafayette GA Wa...
1845 Plus mixed...	1.000	0.150	0.087	0.185	0.062	0.570	0.067	0.024	0.057	0.028	0.724	0.512	1.000	0.204	0.011	0.022
Aberdeen MS Abe...	0.150	1.000	0.005	0.007	0.011	0.014	0.007	0.007	0.011	0.008	0.003	0.025	0.005	0.004	0.005	0.006
Adair County KY...	0.087	0.005	1.000	0.014	0.019	0.027	0.013	0.009	0.014	0.011	0.015	0.025	0.033	0.008	0.007	0.008
Addision NY Adv...	0.185	0.007	0.014	1.000	0.002	0.015	0.003	0.004	0.004	0.003	0.002	0.010	0.003	0.003	0.003	0.003
Albany NY Eveni...	0.062	0.011	0.019	0.002	1.000	0.011	0.008	0.009	0.015	0.009	0.012	0.045	0.022	0.016	0.008	0.008
Atlanta GA Atla...	0.570	0.014	0.027	0.015	0.011	1.000	0.000	0.004	0.007	0.004	0.003	0.012	0.002	0.006	0.003	0.005
Atlanta GA Atla...	0.067	0.007	0.013	0.003	0.008	0.000	1.000	0.015	0.011	0.009	0.008	0.048	0.017	0.007	0.008	0.008
Chicago IL Drau...	0.024	0.007	0.009	0.004	0.009	0.004	0.015	1.000	0.000	0.007	0.003	0.028	0.009	0.007	0.006	0.006
Chicago IL Drau...	0.057	0.011	0.014	0.004	0.015	0.007	0.011	0.000	1.000	0.012	0.004	0.060	0.010	0.009	0.012	0.010
Dover DL Delawa...	0.028	0.008	0.011	0.003	0.009	0.004	0.009	0.007	0.012	1.000	0.018	0.031	0.021	0.009	0.009	0.007
Dover NJ Iron E...	0.724	0.003	0.015	0.002	0.012	0.003	0.008	0.003	0.004	0.018	1.000	0.244	0.277	0.120	0.004	0.012
Fayetteville NY...	0.512	0.025	0.025	0.010	0.045	0.012	0.048	0.028	0.060	0.031	0.244	1.000	0.004	0.002	0.003	0.003
Indianapolis IN...	1.000	0.005	0.033	0.003	0.022	0.002	0.017	0.009	0.010	0.021	0.277	0.004	1.000	0.002	0.001	0.002
Lackawanna NY L...	0.204	0.004	0.008	0.003	0.016	0.006	0.007	0.007	0.009	0.009	0.120	0.002	0.002	1.000	0.004	0.003
Lafayette GA Wa...	0.011	0.005	0.007	0.003	0.008	0.003	0.008	0.006	0.012	0.009	0.004	0.003	0.001	0.004	1.000	0.000
Lafayette GA Wa...	0.022	0.006	0.008	0.003	0.008	0.005	0.008	0.006	0.010	0.007	0.012	0.003	0.002	0.003	0.000	1.000
Lake County	0.370	0.013	0.018	0.002	0.016	0.009	0.031	0.037	0.036	0.031	0.096	0.004	0.005	0.010	0.012	0.008

MI ...																
Louisa KY Big S...	0.032	0.010	0.010	0.004	0.010	0.004	0.011	0.013	0.019	0.012	0.011	0.004	0.002	0.005	0.006	0.004
Louisville KY D...	0.991	0.003	0.023	0.001	0.011	0.001	0.017	0.004	0.010	0.009	0.004	0.002	0.001	0.001	0.006	0.003