

# CSCI 572 Information Retrieval and Search Engines

## Assignment 4

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### Steps:

#### 1. Solr Setup

- Installed solr-7.7.0
- Downloaded the crawl data provided by course producers
- Created a core in solr by going to the /solr-7.7.0 directory and running `bin/solr create -c myexample`
- Opened the managed-schema file present in /conf directory and uncommented `<copyField source="*" dest="_text_"/>` line.
- Saved changes and came back to the home directory of solr.
- Indexed html files in crawl folder(latimes) by using `bin/post -c myexample -filetypes html path_to_crawl_folder/`
- Checked if the indexing was successful by going to the Solr admin panel at `http://localhost:8983/solr/` and selecting 'myexample' from the dropdown
- Went to the query section of 'myexample' and submitted the default query (`*:*`)
- The output proved that the indexing was working correctly.
- Configured Solr to default querying by changing `<!-- <str name="df">text</str-->` in the requestHandler section of `solrconfig.xml` to `<str name="df">_text_</str>`

#### 2. Edge list and Page Rank

- Wrote a Java program to find edge lists from the pages in latimes folder by using JSoup library
- Wrote a Python program using NetworkX library to compute page rank by supplying the EdgeList file as input
- Stored the output of the python code in `external_pageRankFile.txt`
- Provided the following parameters to compute the page rank:  
`alpha=0.85, personalization=None, max_iter=30, tol=1e-06, nstart=None, weight='weight', dangling=None`

The screenshot shows the Solr Admin interface in a web browser. The left sidebar contains navigation links: Dashboard, Logging, Core Admin, Java Properties, Thread Dump, myexample (selected), Overview, Analysis, Dataimport, Documents, Files, Ping, Plugins / Stats, Query, Replication, Schema, and Segments info. The main content area is titled 'Request-Handler (q0) /select' and shows the following fields:   
 - common:   
 - q: Virus   
 - fq:   
 - sort:   
 - start, rows: 0 to 10   
 - fl: id, og\_url   
 - df:   
 - Raw Query Parameters: key1=val1&key2=val2   
 - wt:   
 - debug:   
 - indent off   
 - debugQuery   
 - dismax   
 - edismax   
 - hl   
 The right pane shows the JSON response for the query `http://localhost:8983/solr/myexample/select?fl=id,og_url&q=Virus`. The response includes a status of 0, a qtime of 0, and a list of documents with their IDs and original URLs (og\_url).

The screenshot shows the Solr Admin interface. On the left, the 'Query' tab is selected. The main panel displays the query results for 'q=Virus'. The results are shown in a table with columns 'id', 'og\_url', and 'pageRankFile desc'. The table contains several rows of data, including document IDs and their corresponding URLs. The PageRank scores are also displayed for each document.

**Page Rank results on Solr for query “Virus”**

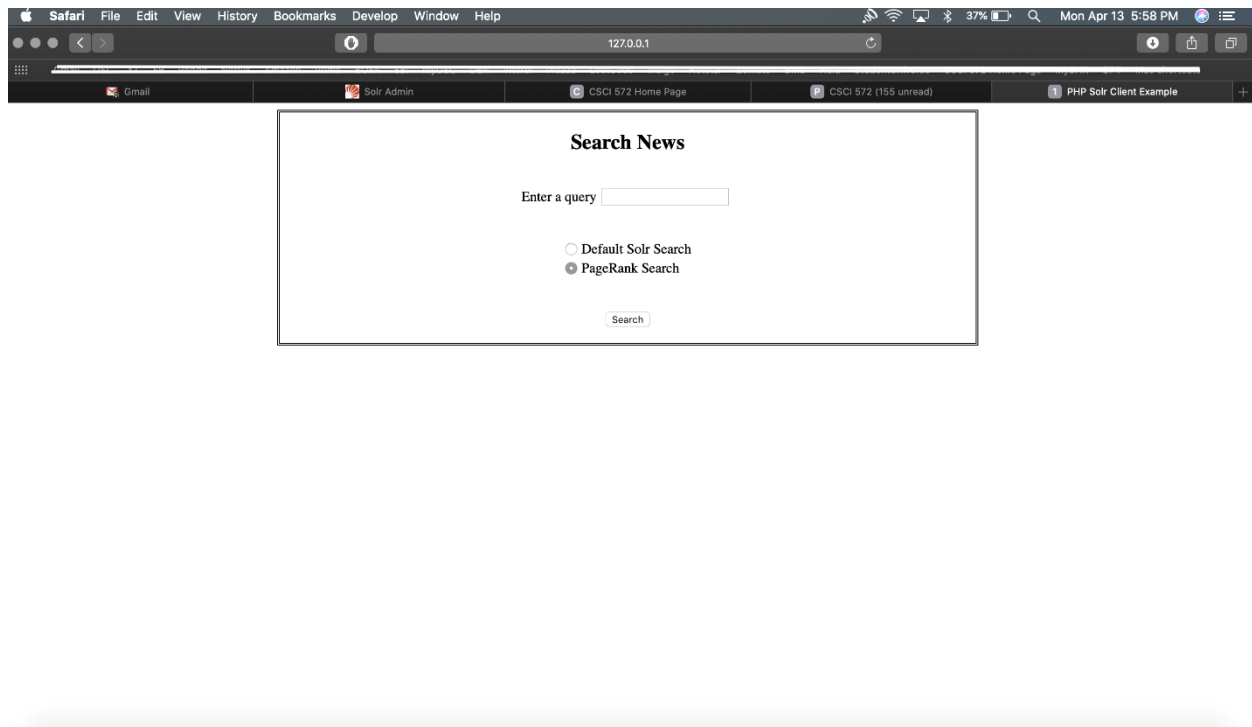
3. Configuring files
  - a. Stored external\_pageRankFile.txt in solr-7.7.0/server/solr/myexample/ ~~directory~~ **data**
  - b. Added the following to managed-schema:
 

```
<fieldType name="external" keyField="id" defVal="0" class="solr.ExternalFileField"/>
<field name="pageRankFile" type="external" stored="false" indexed="false"/>
```
  - c. Defined the following within the <query> tags in solrconfig.xml file
 

```
<listener event="newSearcher" class="org.apache.solr.schema.ExternalFileFieldReloader"/>
<listener event="firstSearcher" class="org.apache.solr.schema.ExternalFileFieldReloader">
```
  - d. Reloaded the core by clicking on the “Reload” button and verified the results by querying again
4. PHP page
  - a. Installed PHP and Apache
  - b. Cloned the given solr git repository
  - c. Wrote a php code using the sample code provided in the assignment description by including 2 buttons for default solr search and PageRank search **index.php**
  - d. Hosted the webpage and verified the results of the search by comparing them with the results obtained on solr admin panel

## PHP Page:

### 1. Search home



The screenshot shows a Safari browser window with the address bar displaying '127.0.0.1'. The browser's menu bar includes 'Safari', 'File', 'Edit', 'View', 'History', 'Bookmarks', 'Develop', 'Window', and 'Help'. The status bar at the bottom indicates 'Mon Apr 13 5:58 PM' and a battery level of 37%. The browser tabs include 'Gmail', 'Solr Admin', 'CSCI 572 Home Page', 'CSCI 572 (155 unread)', and 'PHP Solr Client Example'. The main content area displays a search interface titled 'Search News'. It features a text input field with the placeholder 'Enter a query', two radio buttons for 'Default Solr Search' and 'PageRank Search' (the latter is selected), and a 'Search' button.

**Search News**

Enter a query

☐ Default Solr Search  
☒ PageRank Search

## 2. Default results:

### Search News

Enter a query

☒ Default Solr Search  
☐ PageRank Search

Total Results: 242  
Displaying top 10 results.

- Title:** [Monos se volvieron inmunes tras inocularles virus del Ébola con mutación - Los Angeles Times](#)  
**Link:** [https://www.latimes.com/espanol/internacional/articulo/2019-11-09/monos-se-volvieron-inmunes-tras-inocularles-virus-del-ebola-con-mutacion?\\_amp=true](https://www.latimes.com/espanol/internacional/articulo/2019-11-09/monos-se-volvieron-inmunes-tras-inocularles-virus-del-ebola-con-mutacion?_amp=true)  
**ID:** /Users/parinita/Downloads/latimes/93b7133f-b7f3-409e-bb23-c2c936725830.html  
**Description:** Científicos han inculcado el virus del Ébola con una mutación en una proteína llamada VP3 a monos, que enfermaron y se volvieron inmunes, informó hoy la revista Cell Reports.
- Title:** [Five ways scientists are going after the Zika virus - Los Angeles Times](#)  
**Link:** <https://www.latimes.com/science/sciencenow/la-sci-science-of-zika-five-ways-20160223-htmlstory.html>  
**ID:** /Users/parinita/Downloads/latimes/9dff16c7-f3c6-484f-9276-44cd0f12dbb4.html  
**Description:** To determine whether the Zika virus is indeed responsible for a surge in birth defects, public health officials are drawing on expertise from many disciplines.
- Title:** [Monos se volvieron inmunes tras inocularles virus del Ébola con mutación - Los Angeles Times](#)  
**Link:** <https://www.latimes.com/espanol/internacional/articulo/2019-11-09/monos-se-volvieron-inmunes-tras-inocularles-virus-del-ebola-con-mutacion>  
**ID:** /Users/parinita/Downloads/latimes/ba09422e-fed8-49e0-9944-973c7e754bc1.html  
**Description:** Científicos han inculcado el virus del Ébola con una mutación en una proteína llamada VP3 a monos, que enfermaron y se volvieron inmunes, informó hoy la revista Cell Reports.

Safari

File Edit View History Bookmarks Develop Window Help

127.0.0.1

Mon Apr 13 5:31 PM

Gmail

Solr Admin

CSGI 672 Home Page

CSGI 672 (185 unread)

1 PHP Solr Client Example

3. **Title:** [Monos se volvieron inmunes tras inocularles virus del Ébola con mutación - Los Angeles Times](#)  
**Link:** <https://www.latimes.com/espanol/internacional/articulo/2019-11-09/monos-se-volvieron-inmunes-tras-inocularles-virus-del-ebola-con-mutacion>  
**ID:** /Users/parinita/Downloads/latimes/ba09422e-fed8-49e0-9944-973c7e754bc1.html  
**Description:** Científicos han inculcado el virus del Ébola con una mutación en una proteína llamada VP3 a monos, que enfermaron y se volvieron inmunes, informó hoy la revista Cell Reports.

4. **Title:** [Virus may be culprit in AFM, the paralyzing illness affecting kids - Los Angeles Times](#)  
**Link:** [https://www.latimes.com/science/story/2019-10-21/virus-afm-illness-paralyzing-kids?\\_amp=true](https://www.latimes.com/science/story/2019-10-21/virus-afm-illness-paralyzing-kids?_amp=true)  
**ID:** /Users/parinita/Downloads/latimes/733787a8-6c61-4d00-a72b-3e48668f9001.html  
**Description:** Scientists have found the strongest evidence yet that a virus is to blame for AFM, a mysterious polio-like illness that can quickly paralyze children.

5. **Title:** [Virus may be culprit in AFM, the paralyzing illness affecting kids - Los Angeles Times](#)  
**Link:** <https://www.latimes.com/science/story/2019-10-21/virus-afm-illness-paralyzing-kids>  
**ID:** /Users/parinita/Downloads/latimes/au26c5e1-6da7-4f49-81dc-36a907202f7.html  
**Description:** Scientists have found the strongest evidence yet that a virus is to blame for AFM, a mysterious polio-like illness that can quickly paralyze children.

6. **Title:** [Laguna Beach woman tests positive for West Nile virus: first case in O.C. this year - Los Angeles Times](#)  
**Link:** <https://www.latimes.com/local/daily-pilot/news/la-dpt-me-west-nile-20170707-story.html>  
**ID:** /Users/parinita/Downloads/latimes/ab652a29-46f2-4a58-8b4b-352a89ae45a.html  
**Description:** A Laguna Beach woman is the first person to test positive for West Nile virus in Orange County this year, the county Health Care Agency said Friday.

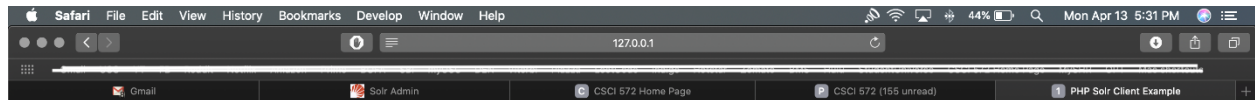
7. **Title:** [Q&A: What is AFM? Everything you need to know about the polio-like virus suddenly affecting children across the U.S. - Los Angeles Times](#)  
**Link:** [https://www.latimes.com/science/sciencenow/la-sci-sn-acute-fascid-myelitis-polio-20181017-story.html?\\_amp=true](https://www.latimes.com/science/sciencenow/la-sci-sn-acute-fascid-myelitis-polio-20181017-story.html?_amp=true)  
**ID:** /Users/parinita/Downloads/latimes/f54771e-7186-46ec-8114-ab2c2d36da7.html  
**Description:** It's mysterious, it's dangerous and it's got parents on edge from coast to coast.

8. **Title:** [To stop a virus, California has euthanized more than 1.2 million birds. Is it reckless or necessary? - Los Angeles Times](#)  
**Link:** <https://www.latimes.com/local/lanow/la-me-ln-viral-ent-newcastle-disease-outbreak-in-southern-california-20190607-story.html>  
**ID:** /Users/parinita/Downloads/latimes/cb8f5745-34a1-46e3-9e87-0a54e97c4bf6.html  
**Description:** Each morning, once the kids were off to school, Kerri Hand would slip out to her backyard, sit in a lawn chair and hang out with her feathered family.

9. **Title:** [Polio was nearly extinct. Then the anti-vaxx movement reached Pakistan - Los Angeles Times](#)  
**Link:** [https://www.latimes.com/world-nation/story/2019-09-04/anti-vaxxers-helping-polio-comeback-pakistan?\\_amp=true](https://www.latimes.com/world-nation/story/2019-09-04/anti-vaxxers-helping-polio-comeback-pakistan?_amp=true)  
**ID:** /Users/parinita/Downloads/latimes/be936012-f139-42c3-b677-aa4c3859823f.html  
**Description:** Much like measles is spreading in the U.S., polio is resurgent in the last region of the world where it hasn't been eradicated.

10. **Title:** [Deborah Annis dies at 59: helped detect West Nile virus in U.S. - Los Angeles Times](#)  
**Link:** <https://www.latimes.com/local/obituaries/la-me-deborah-annis-20150921-story.html>  
**ID:** /Users/parinita/Downloads/latimes/112401a5-a4f3-46bc-90ca-e14d64212323.html  
**Description:** Late in the summer of 1999, Dr.

### 3. PageRank results



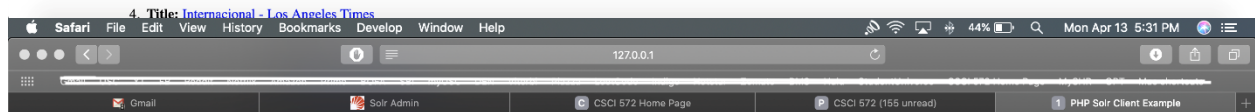
#### Search News

Enter a query

- ☐ Default Solr Search  
☒ PageRank Search

**Total Results:** 242  
Displaying top 10 results.

1. **Title:** [Terms of Service - Los Angeles Times](#)  
**Link:** <https://www.latimes.com/terms-of-service>  
**ID:** /Users/parinita/Downloads/latimes/8d24338b-94be-4eaf-90cc-6ccf26611e80.html  
**Description:** N/A
2. **Title:** [En Español - Los Angeles Times](#)  
**Link:** <https://www.latimes.com/espanol/>  
**ID:** /Users/parinita/Downloads/latimes/9cfc2f22-bf28-4334-aba8-392b3c66bf2.html  
**Description:** N/A
3. **Title:** [Science - Los Angeles Times](#)  
**Link:** <https://www.latimes.com/science>  
**ID:** /Users/parinita/Downloads/latimes/f720cc91-c4bb-43a8-bf54-4e8a95b47305.html  
**Description:** In-depth science news about space exploration, medical science, climate change, technological breakthroughs and the latest scientific studies.



**Description:** In-depth science news about space exploration, medical science, climate change, technological breakthroughs and the latest scientific studies.

4. **Title:** [Internacional - Los Angeles Times](#)  
**Link:** <https://www.latimes.com/espanol/internacional>  
**ID:** /Users/parinita/Downloads/latimes/16dcaab-cfbf-476a-9941-a069381d6b06.html  
**Description:** N/A
5. **Title:** [¿Cómo ser campeón de "League of Legends"? - Los Angeles Times](#)  
**Link:** <https://www.latimes.com/espanol/deportes/articulo/2019-11-09/como-ser-campeon-de-league-of-legends>  
**ID:** /Users/parinita/Downloads/latimes/92e80ba2-2f63-4633-9468-9b083e9834a8.html  
**Description:** Estamos en uno de los eventos más importantes de las competencias de los deportes electrónicos el "League of Legends", que para este año cuenta con una recta final de 24 equipos de todo el mundo tras una carrera de meses para la "Copa del Invocador".
6. **Title:** [In the rush to harvest body parts, death investigations have been upended - Los Angeles Times](#)  
**Link:** <https://www.latimes.com/business/story/2019-10-13/body-parts-harvesting-hinders-coroner-autopsies>  
**ID:** /Users/parinita/Downloads/latimes/73482db1-1121-4817-b7c7-d664a5755cfd.html  
**Description:** The Times found a rising number of death investigations across the country were complicated or upended after transplantable body parts were taken before a coroner's autopsy.
7. **Title:** [Crean en México plataforma para medir impacto ambiental de basura electrónica - Los Angeles Times](#)  
**Link:** <https://www.latimes.com/espanol/mexico/articulo/2019-11-09/crean-en-mexico-plataforma-para-medir-impacto-ambiental-de-basura-electronica>  
**ID:** /Users/parinita/Downloads/latimes/0cc1e298-5411-4e6f-a1fb-7dd17253262f.html  
**Description:** Una plataforma digital, actualmente en fase de prueba en México, busca que los usuarios conozcan la cantidad de residuos electrónicos que generan y su efecto en los ecosistemas, y puedan tomar mejores decisiones sobre la forma en que deben disponer de su basura tecnológica.
8. **Title:** [El nuevo Mitsubishi Mirage pudiera arribar a mediados del próximo año - Los Angeles Times](#)  
**Link:** <https://www.latimes.com/espanol/internacional/articulo/2019-11-09/el-nuevo-mitsubishi-mirage-pudiera-arribar-a-mediados-del-proximo-ano>  
**ID:** /Users/parinita/Downloads/latimes/18b882c4-04a5-4f59-a0b9-107d285b0999.html  
**Description:** Mitsubishi actualizará el Mirage antes de su presentación en Tailandia el 18 de noviembre.
9. **Title:** [Monos se volvieron inmunes tras inocularles virus del Ébola con mutación - Los Angeles Times](#)  
**Link:** <https://www.latimes.com/espanol/internacional/articulo/2019-11-09/monos-se-volvieron-inmunes-tras-inocularles-virus-del-ebola-con-mutacion>  
**ID:** /Users/parinita/Downloads/latimes/ba09422e-fd88-49e0-9944-973c7e754bc1.html  
**Description:** Científicos han inyectado el virus del Ébola con una mutación en una proteína llamada VP3 a monos, que enfermaron y se volvieron inmunes, informó hoy la revista Cell Reports.
10. **Title:** [Una tortuga tecnológica para detectar microplásticos en los océanos - Los Angeles Times](#)  
**Link:** <https://www.latimes.com/espanol/internacional/articulo/2019-11-09/una-tortuga-tecnologica-para-detectar-microplasticos-en-los-ocenos>  
**ID:** /Users/parinita/Downloads/latimes/29a20707-ab40-4493-9907-704c-37f09a5.html  
**Description:** Parece una tortuga, tiene sus aletas, su cabeza, su caparazón, pero no es una tortuga.

#### 4. Specific URL in the result



#### Why do some pages have higher page ranks than others?

The PageRank algorithm evaluates the quality and quantity of links to a webpage. This evaluation helps it to determine a relative score of the page's importance. In order to measure this importance, the algorithm counts the number of inlinks and outlinks of the webpage. Inlinks are the number of webpages pointing to this page and outlinks is the number of webpages this page points to. If the number of inlinks is more, the rank of a page is higher. The measure of inlinks and outlinks is determined by calculating EdgeList and then the PageRank is then calculated using the python code in our case.

#### Comparison of top 10 results of 9 different queries on Lucene (Default) and PageRank:

Cannes	
Default Search Results	PageRank Search Results
<a href="https://www.latimes.com/topic/cannes-film-festival">https://www.latimes.com/topic/cannes-film-festival</a>	<a href="https://www.latimes.com/sitemap">https://www.latimes.com/sitemap</a>
<a href="https://www.latimes.com/entertainment/movies/la-et-mn-cannes-wrap-critics-conversation-20190526-story.html">https://www.latimes.com/entertainment/movies/la-et-mn-cannes-wrap-critics-conversation-20190526-story.html</a>	<a href="https://www.latimes.com/espanol/entretenimiento/articulo/2019-10-04/por-fin-llega-joker-aqui-un-resumen-de-todo-el-drama-que-ha-provocado">https://www.latimes.com/espanol/entretenimiento/articulo/2019-10-04/por-fin-llega-joker-aqui-un-resumen-de-todo-el-drama-que-ha-provocado</a>
<a href="https://www.latimes.com/entertainment/movies/moviesnow/la-et-mn-cannes-2015-winners-20150524-story.html">https://www.latimes.com/entertainment/movies/moviesnow/la-et-mn-cannes-2015-winners-20150524-story.html</a>	<a href="https://www.latimes.com/entertainment-arts/movies/story/2019-11-08/documentaries-apollo-11-the-cave-sea-of-shadows-honeyland">https://www.latimes.com/entertainment-arts/movies/story/2019-11-08/documentaries-apollo-11-the-cave-sea-of-shadows-honeyland</a>
<a href="https://www.latimes.com/entertainment/movies/la-et-mn-cannes-film-festival-award-winners-20190525-story.html">https://www.latimes.com/entertainment/movies/la-et-mn-cannes-film-festival-award-winners-20190525-story.html</a>	<a href="https://www.latimes.com/lifestyle/gallery/chloe-sevignys-five-favorite-frocks">https://www.latimes.com/lifestyle/gallery/chloe-sevignys-five-favorite-frocks</a>
<a href="https://www.latimes.com/entertainment/movies/la-et-mn-cannes-parasite-atlantics-awards-20190526-story.html">https://www.latimes.com/entertainment/movies/la-et-mn-cannes-parasite-atlantics-awards-20190526-story.html</a>	<a href="https://www.latimes.com/topic/film-festivals">https://www.latimes.com/topic/film-festivals</a>

<a href="https://www.latimes.com/entertainment/movies/la-et-mn-cannes-once-upon-a-time-in-hollywood-20190522-story.html">https://www.latimes.com/entertainment/movies/la-et-mn-cannes-once-upon-a-time-in-hollywood-20190522-story.html</a>	<a href="https://www.latimes.com/topic/cannes-film-festival">https://www.latimes.com/topic/cannes-film-festival</a>
<a href="https://www.latimes.com/entertainment/movies/la-ca-mn-cannes-genre-parasite-wild-goose-lake-tarantino-20190522-story.html">https://www.latimes.com/entertainment/movies/la-ca-mn-cannes-genre-parasite-wild-goose-lake-tarantino-20190522-story.html</a>	<a href="https://www.latimes.com/people/genaro-molina">https://www.latimes.com/people/genaro-molina</a>
<a href="https://www.latimes.com/entertainment/movies/la-et-mn-cannes-mektoub-my-love-intermezzo-abdellatif-kechiche-20190523-story.html">https://www.latimes.com/entertainment/movies/la-et-mn-cannes-mektoub-my-love-intermezzo-abdellatif-kechiche-20190523-story.html</a>	<a href="https://www.latimes.com/entertainment-arts/music/story/2019-11-06/whitney-houston-lesbian-relationship-robyn-crawford">https://www.latimes.com/entertainment-arts/music/story/2019-11-06/whitney-houston-lesbian-relationship-robyn-crawford</a>
<a href="https://www.latimes.com/entertainment/movies/la-et-mn-cannes-quentin-tarantino-once-upon-a-time-in-hollywood-20190521-story.html">https://www.latimes.com/entertainment/movies/la-et-mn-cannes-quentin-tarantino-once-upon-a-time-in-hollywood-20190521-story.html</a>	<a href="https://www.latimes.com/entertainment-arts/movies/story/2019-10-31/apple-disney-hbomax-streaming-movies">https://www.latimes.com/entertainment-arts/movies/story/2019-10-31/apple-disney-hbomax-streaming-movies</a>
<a href="https://www.latimes.com/entertainment/movies/la-et-mn-cannes-robert-eggers-the-lighthouse-robert-pattinson-20190524-story.html">https://www.latimes.com/entertainment/movies/la-et-mn-cannes-robert-eggers-the-lighthouse-robert-pattinson-20190524-story.html</a>	<a href="https://www.latimes.com/opinion/story/2019-09-17/patt-morrison-dana-thomas-fast-fashion-environment">https://www.latimes.com/opinion/story/2019-09-17/patt-morrison-dana-thomas-fast-fashion-environment</a>

Congress	
Default Search Results	PageRank Search Results
<a href="https://www.latimes.com/opinion/enterthefray/la-ol-new-york-rhode-island-congress-marijuana-20190116-story.html">https://www.latimes.com/opinion/enterthefray/la-ol-new-york-rhode-island-congress-marijuana-20190116-story.html</a>	<a href="https://www.latimes.com/opinion">https://www.latimes.com/opinion</a>
<a href="https://www.latimes.com/politics/story/2019-10-28/jerry-brown-to-testify-to-congress-rebutting-trumps-criticism-of-california">https://www.latimes.com/politics/story/2019-10-28/jerry-brown-to-testify-to-congress-rebutting-trumps-criticism-of-california</a>	<a href="https://www.latimes.com/espanol/politica">https://www.latimes.com/espanol/politica</a>
<a href="https://www.latimes.com/politics/la-na-pol-congress-sexual-harassment-20181212-story.html">https://www.latimes.com/politics/la-na-pol-congress-sexual-harassment-20181212-story.html</a>	<a href="https://www.latimes.com/politics/story/2019-11-08/michael-bloomberg-files-papers-for-2020-democratic-presidential-primary">https://www.latimes.com/politics/story/2019-11-08/michael-bloomberg-files-papers-for-2020-democratic-presidential-primary</a>
<a href="https://www.latimes.com/politics/la-pol-ca-richest-california-lawmakers-20180305-story.html">https://www.latimes.com/politics/la-pol-ca-richest-california-lawmakers-20180305-story.html</a>	<a href="https://www.latimes.com/opinion/story/2019-11-09/facebook-twitter-political-ads-lies">https://www.latimes.com/opinion/story/2019-11-09/facebook-twitter-political-ads-lies</a>
<a href="https://www.latimes.com/politics/story/2019-09-09/congress-gun-control-government-shutdown">https://www.latimes.com/politics/story/2019-09-09/congress-gun-control-government-shutdown</a>	<a href="https://www.latimes.com/politics/story/2019-11-08/elizabeth-warren-used-bare-knuckle-tactics-to-take-down-an-obama-nominee">https://www.latimes.com/politics/story/2019-11-08/elizabeth-warren-used-bare-knuckle-tactics-to-take-down-an-obama-nominee</a>
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<a href="https://www.latimes.com/politics/story/2019-09-24/democrats-and-pelosi-appear-close-to-tipping-point-on-impeachment">https://www.latimes.com/politics/story/2019-09-24/democrats-and-pelosi-appear-close-to-tipping-point-on-impeachment</a>	<a href="https://www.latimes.com/politics/story/2019-11-08/elizabeth-warren-used-bare-knuckle-tactics-to-take-down-an-obama-nominee">https://www.latimes.com/politics/story/2019-11-08/elizabeth-warren-used-bare-knuckle-tactics-to-take-down-an-obama-nominee</a>
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<a href="https://www.latimes.com/staff/megan-garvey">https://www.latimes.com/staff/megan-garvey</a>	<a href="https://www.latimes.com/science">https://www.latimes.com/science</a>
<a href="https://www.latimes.com/archives/la-xpm-2001-jun-10-mn-8792-story.html">https://www.latimes.com/archives/la-xpm-2001-jun-10-mn-8792-story.html</a>	<a href="https://www.latimes.com/california/story/2019-11-09/prop-187-anniversary-commemoration">https://www.latimes.com/california/story/2019-11-09/prop-187-anniversary-commemoration</a>
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<a href="https://www.latimes.com/politics/story/2019-10-30/democrats-hoped-theyd-win-over-republicans-on-impeachment-but-its-not-looking-that-way-so-far">https://www.latimes.com/politics/story/2019-10-30/democrats-hoped-theyd-win-over-republicans-on-impeachment-but-its-not-looking-that-way-so-far</a>	<a href="https://www.latimes.com/opinion">https://www.latimes.com/opinion</a>
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<a href="https://www.latimes.com/politics/story/2019-11-06/republicans-election-trump-candidate-loses-kentucky">https://www.latimes.com/politics/story/2019-11-06/republicans-election-trump-candidate-loses-kentucky</a>	<a href="https://www.latimes.com/opinion/story/2019-11-08/impeachment-trump-republicans-toomey">https://www.latimes.com/opinion/story/2019-11-08/impeachment-trump-republicans-toomey</a>

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<a href="https://www.latimes.com/politics/story/2019-10-30/california-donors-spend-millions-on-2020-senate-races-across-the-country">https://www.latimes.com/politics/story/2019-10-30/california-donors-spend-millions-on-2020-senate-races-across-the-country</a>	<a href="https://www.latimes.com/opinion">https://www.latimes.com/opinion</a>
<a href="https://www.latimes.com/politics/story/2019-10-04/vulnerable-senate-republicans-impeachment">https://www.latimes.com/politics/story/2019-10-04/vulnerable-senate-republicans-impeachment</a>	<a href="https://www.latimes.com/california/story/2019-11-09/prop-187-anniversary-commemoration">https://www.latimes.com/california/story/2019-11-09/prop-187-anniversary-commemoration</a>
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<a href="https://www.latimes.com/politics/la-na-pol-william-barr-senate-confirm-attorney-general-20190214-story.html">https://www.latimes.com/politics/la-na-pol-william-barr-senate-confirm-attorney-general-20190214-story.html</a>	<a href="https://www.latimes.com/opinion/story/2019-11-09/devin-nunes-impeachment-witness-list">https://www.latimes.com/opinion/story/2019-11-09/devin-nunes-impeachment-witness-list</a>
<a href="https://www.latimes.com/opinion/story/2019-10-15/wmcaleen-homeland-security-trump-nielsen-senate-acting-secretary">https://www.latimes.com/opinion/story/2019-10-15/wmcaleen-homeland-security-trump-nielsen-senate-acting-secretary</a>	<a href="https://www.latimes.com/opinion/story/2019-11-09/sat-uc-college-admissions">https://www.latimes.com/opinion/story/2019-11-09/sat-uc-college-admissions</a>

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<a href="https://www.latimes.com/sports/olympics/story/2019-08-15/2020-tokyo-olympics-searching-for-answers-amid-heat-wave">https://www.latimes.com/sports/olympics/story/2019-08-15/2020-tokyo-olympics-searching-for-answers-amid-heat-wave</a>	<a href="https://www.latimes.com/">https://www.latimes.com/</a>
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<a href="https://www.latimes.com/sports/olympics/story/2019-07-31/deadly-heat-wave-2020-summer-olympics-tokyo">https://www.latimes.com/sports/olympics/story/2019-07-31/deadly-heat-wave-2020-summer-olympics-tokyo</a>	<a href="https://www.latimes.com/entertainment-arts">https://www.latimes.com/entertainment-arts</a>
<a href="https://www.latimes.com/sports/story/2019-11-05/ioc-anti-doping-2020-tokyo-olympics">https://www.latimes.com/sports/story/2019-11-05/ioc-anti-doping-2020-tokyo-olympics</a>	<a href="https://www.latimes.com/world-nation">https://www.latimes.com/world-nation</a>

<a href="https://www.latimes.com/sports/olympics/story/2019-10-10/naomi-osaka-chooses-japan-over-u-s-2020-tokyo-olympics">https://www.latimes.com/sports/olympics/story/2019-10-10/naomi-osaka-chooses-japan-over-u-s-2020-tokyo-olympics</a>	<a href="https://www.latimes.com/environment">https://www.latimes.com/environment</a>
<a href="https://www.latimes.com/sports/story/2019-07-23/tokyos-rough-road-to-2020-summer-olympics">https://www.latimes.com/sports/story/2019-07-23/tokyos-rough-road-to-2020-summer-olympics</a>	<a href="https://www.latimes.com/newsroom-directory">https://www.latimes.com/newsroom-directory</a>
<a href="https://www.latimes.com/people/david-wharton">https://www.latimes.com/people/david-wharton</a>	<a href="https://www.latimes.com/politics">https://www.latimes.com/politics</a>

Stock	
Default Search Results	PageRank Search Results
<a href="https://www.latimes.com/business/story/2019-11-06/uber-lock-up-period-ends-with-falling-stock-protests">https://www.latimes.com/business/story/2019-11-06/uber-lock-up-period-ends-with-falling-stock-protests</a>	<a href="https://www.latimes.com/">https://www.latimes.com/</a>
<a href="https://www.latimes.com/business/la-fi-lyft-stock-20190401-story.html">https://www.latimes.com/business/la-fi-lyft-stock-20190401-story.html</a>	<a href="https://www.latimes.com/business">https://www.latimes.com/business</a>
<a href="https://www.latimes.com/business/la-fi-hy-tesla-stock-20160518-snap-story.html">https://www.latimes.com/business/la-fi-hy-tesla-stock-20160518-snap-story.html</a>	<a href="https://www.latimes.com/business/real-estate">https://www.latimes.com/business/real-estate</a>
<a href="https://www.latimes.com/business/story/2019-11-06/uber-lock-up-period-ends-with-falling-stock-protests">https://www.latimes.com/business/story/2019-11-06/uber-lock-up-period-ends-with-falling-stock-protests</a>	<a href="https://www.latimes.com/business/real-estate/story/2019-11-09/hulu-looking-for-alaska-landry-bender">https://www.latimes.com/business/real-estate/story/2019-11-09/hulu-looking-for-alaska-landry-bender</a>
<a href="https://www.latimes.com/business/story/2019-11-09/stock-managers-who-played-defense-in-2019-are-left-scrambling-to-make-up-ground">https://www.latimes.com/business/story/2019-11-09/stock-managers-who-played-defense-in-2019-are-left-scrambling-to-make-up-ground</a>	<a href="https://www.latimes.com/business/story/2019-11-08/trump-china-tariffs">https://www.latimes.com/business/story/2019-11-08/trump-china-tariffs</a>
<a href="https://www.latimes.com/business/la-fi-uber-ipo-stock-trading-price-20190510-story.html">https://www.latimes.com/business/la-fi-uber-ipo-stock-trading-price-20190510-story.html</a>	<a href="https://www.latimes.com/business/real-estate/story/2019-11-09/hot-property-very-brady-sale-malibu">https://www.latimes.com/business/real-estate/story/2019-11-09/hot-property-very-brady-sale-malibu</a>
<a href="https://www.latimes.com/business/story/2019-09-09/at-t-stock-surges-elliott-reveals-3-2-billion-stake">https://www.latimes.com/business/story/2019-09-09/at-t-stock-surges-elliott-reveals-3-2-billion-stake</a>	<a href="https://www.latimes.com/politics/story/2019-11-08/elizabeth-warren-used-bare-knuckle-tactics-to-take-down-an-obama-nominee">https://www.latimes.com/politics/story/2019-11-08/elizabeth-warren-used-bare-knuckle-tactics-to-take-down-an-obama-nominee</a>
<a href="https://www.latimes.com/business/la-fi-stock-market-status-update-20180209-story.html">https://www.latimes.com/business/la-fi-stock-market-status-update-20180209-story.html</a>	<a href="https://www.latimes.com/business/real-estate/story/2019-11-09/hot-property-newsletter-rifleman-leads-the-posse-on-a-little-mosey-down-memory-lane">https://www.latimes.com/business/real-estate/story/2019-11-09/hot-property-newsletter-rifleman-leads-the-posse-on-a-little-mosey-down-memory-lane</a>
<a href="https://www.latimes.com/business/la-fi-stock-market-correction-20180212-story.html">https://www.latimes.com/business/la-fi-stock-market-correction-20180212-story.html</a>	<a href="https://www.latimes.com/business/story/2019-11-09/stock-managers-who-played-defense-in-2019-are-left-scrambling-to-make-up-ground">https://www.latimes.com/business/story/2019-11-09/stock-managers-who-played-defense-in-2019-are-left-scrambling-to-make-up-ground</a>
<a href="https://www.latimes.com/business/story/2019-11-09/stock-managers-who-played-defense-in-2019-are-left-scrambling-to-make-up-ground">https://www.latimes.com/business/story/2019-11-09/stock-managers-who-played-defense-in-2019-are-left-scrambling-to-make-up-ground</a>	<a href="https://www.latimes.com/business/story/2019-11-08/gap-ceo-was-done-in-by-fashion-missteps-and-fading-brands">https://www.latimes.com/business/story/2019-11-08/gap-ceo-was-done-in-by-fashion-missteps-and-fading-brands</a>

Virus	
Default Search Results	PageRank Search Results
<a href="https://www.latimes.com/espanol/internacional/articulo/2019-11-09/monos-se-volvieron-inmunes-tras-inocularles-virus-del-ebola-con-mutacion">https://www.latimes.com/espanol/internacional/articulo/2019-11-09/monos-se-volvieron-inmunes-tras-inocularles-virus-del-ebola-con-mutacion</a>	<a href="https://www.latimes.com/terms-of-service">https://www.latimes.com/terms-of-service</a>

<a href="https://www.latimes.com/science/sciencenow/la-sci-science-of-zika-five-ways-20160223-htmlstory.html">https://www.latimes.com/science/sciencenow/la-sci-science-of-zika-five-ways-20160223-htmlstory.html</a>	<a href="https://www.latimes.com/espanol/">https://www.latimes.com/espanol/</a>
<a href="https://www.latimes.com/espanol/internacional/articulo/2019-11-09/monos-se-volvieron-inmunes-tras-inocularles-virus-del-ebola-con-mutacion">https://www.latimes.com/espanol/internacional/articulo/2019-11-09/monos-se-volvieron-inmunes-tras-inocularles-virus-del-ebola-con-mutacion</a>	<a href="https://www.latimes.com/science">https://www.latimes.com/science</a>
<a href="https://www.latimes.com/science/story/2019-10-21/virus-afm-illness-paralyzing-kids">https://www.latimes.com/science/story/2019-10-21/virus-afm-illness-paralyzing-kids</a>	<a href="https://www.latimes.com/espanol/internacional">https://www.latimes.com/espanol/internacional</a>
<a href="https://www.latimes.com/science/story/2019-10-21/virus-afm-illness-paralyzing-kids">https://www.latimes.com/science/story/2019-10-21/virus-afm-illness-paralyzing-kids</a>	<a href="https://www.latimes.com/espanol/deportes/articulo/2019-11-09/como-ser-campeon-de-league-of-legends">https://www.latimes.com/espanol/deportes/articulo/2019-11-09/como-ser-campeon-de-league-of-legends</a>
<a href="https://www.latimes.com/socal/daily-pilot/news/tn-dpt-me-west-nile-20170707-story.html">https://www.latimes.com/socal/daily-pilot/news/tn-dpt-me-west-nile-20170707-story.html</a>	<a href="https://www.latimes.com/business/story/2019-10-13/body-parts-harvesting-hinders-coroner-autopsies">https://www.latimes.com/business/story/2019-10-13/body-parts-harvesting-hinders-coroner-autopsies</a>
<a href="https://www.latimes.com/science/sciencenow/la-sci-sn-acute-flaccid-myelitis-polio-20181017-story.html">https://www.latimes.com/science/sciencenow/la-sci-sn-acute-flaccid-myelitis-polio-20181017-story.html</a>	<a href="https://www.latimes.com/espanol/mexico/articulo/2019-11-09/crean-en-mexico-plataforma-para-medir-impacto-ambiental-de-basura-electronica">https://www.latimes.com/espanol/mexico/articulo/2019-11-09/crean-en-mexico-plataforma-para-medir-impacto-ambiental-de-basura-electronica</a>
<a href="https://www.latimes.com/local/lanow/la-me-ln-virulent-newcastle-disease-outbreak-in-southern-california-20190607-story.html">https://www.latimes.com/local/lanow/la-me-ln-virulent-newcastle-disease-outbreak-in-southern-california-20190607-story.html</a>	<a href="https://www.latimes.com/espanol/internacional/articulo/2019-11-09/el-nuevo-mitsubishi-mirage-pudiera-arribar-a-mediados-del-proximo-ano">https://www.latimes.com/espanol/internacional/articulo/2019-11-09/el-nuevo-mitsubishi-mirage-pudiera-arribar-a-mediados-del-proximo-ano</a>
<a href="https://www.latimes.com/world-nation/story/2019-09-04/anti-vaxxers-helping-polio-comeback-pakistan">https://www.latimes.com/world-nation/story/2019-09-04/anti-vaxxers-helping-polio-comeback-pakistan</a>	<a href="https://www.latimes.com/espanol/internacional/articulo/2019-11-09/monos-se-volvieron-inmunes-tras-inocularles-virus-del-ebola-con-mutacion">https://www.latimes.com/espanol/internacional/articulo/2019-11-09/monos-se-volvieron-inmunes-tras-inocularles-virus-del-ebola-con-mutacion</a>
<a href="https://www.latimes.com/local/obituaries/la-me-deborah-asnis-20150921-story.html">https://www.latimes.com/local/obituaries/la-me-deborah-asnis-20150921-story.html</a>	<a href="https://www.latimes.com/espanol/internacional/articulo/2019-11-09/una-tortuga-tecnologica-para-detectar-microplasticos-en-los-oceanos">https://www.latimes.com/espanol/internacional/articulo/2019-11-09/una-tortuga-tecnologica-para-detectar-microplasticos-en-los-oceanos</a>

### Overlap Chart:

