

Repo

Yiming Chen

ID:9600260082

Email: ychen983@usc.edu

For this homework, there are mainly two part, the first one is compute the page rank, and second using solr to submit data and show in front end.

PageRank

1.1 CSV document: we need to put it as input and using hash map to store the key: URL address, value: document name. One we extra links from webpages and we can map it to document name. regrade as link.

1.2 Using Jsoup to extract links from webpages. My program is to us Jsoup to parse each document and extract the links it contains. And also map it to actual document name as “a b”. we can think there are edge lists for graph.

```
985ac82c-9868-4b5c-bf36-b37cf057c7db.html 6ee768fa-a452-4756-b6ee-32626cac9641.html
985ac82c-9868-4b5c-bf36-b37cf057c7db.html c290a208-75a7-4e51-97b6-055e5255b22a.html
985ac82c-9868-4b5c-bf36-b37cf057c7db.html 849750b0-ab24-4c2d-836f-19ed739144d3.html
985ac82c-9868-4b5c-bf36-b37cf057c7db.html 5d0015da-c2a3-45e5-b283-035d5c78710f.html
985ac82c-9868-4b5c-bf36-b37cf057c7db.html 9ca08103-ac3f-4de0-b037-7512ebc4b007.html
985ac82c-9868-4b5c-bf36-b37cf057c7db.html 5c5c9391-5bee-42d6-8f57-19c2748bfe79.html
985ac82c-9868-4b5c-bf36-b37cf057c7db.html dd468aea-9d0a-4d19-a9a7-98733905e5b9.html
985ac82c-9868-4b5c-bf36-b37cf057c7db.html cab28094-610b-446f-95d1-b9838f5ade9.html
985ac82c-9868-4b5c-bf36-b37cf057c7db.html 96b3394c-7f23-4672-92ac-a9aabb014b4d.html
985ac82c-9868-4b5c-bf36-b37cf057c7db.html f720c31c-540b-43a8-bf54-4e0895b47305.html
985ac82c-9868-4b5c-bf36-b37cf057c7db.html d1ec6ec6-2f31-4e92-8111-61ca285e874d.html
985ac82c-9868-4b5c-bf36-b37cf057c7db.html a0f27544-089a-41a1-8602-2f39ff7957c8.html
985ac82c-9868-4b5c-bf36-b37cf057c7db.html 09c150ed-d90b-4872-8958-22b0605008d7.html
985ac82c-9868-4b5c-bf36-b37cf057c7db.html adf0e11b-7cd0-40eb-99cd-bfe632e405ef.html
985ac82c-9868-4b5c-bf36-b37cf057c7db.html f3b98fc9-6fbc-4fa9-8d3f-02b84d0afd8a.html
985ac82c-9868-4b5c-bf36-b37cf057c7db.html 278906f9-5313-48c8-9b55-b6e829525f7d.html
985ac82c-9868-4b5c-bf36-b37cf057c7db.html 4c2f66d7-3d01-49ca-9a26-d2c13f74007a.html
985ac82c-9868-4b5c-bf36-b37cf057c7db.html 5273837b-bc7d-4ee4-944e-57f1b18e3ef83.html
985ac82c-9868-4b5c-bf36-b37cf057c7db.html d886a4e7-833e-4c53-954b-5aafca4bf69e.html
985ac82c-9868-4b5c-bf36-b37cf057c7db.html f3b98fc9-6fbc-4fa9-8d3f-02b84d0afd8a.html
985ac82c-9868-4b5c-bf36-b37cf057c7db.html 278906f9-5313-48c8-9b55-b6e829525f7d.html
985ac82c-9868-4b5c-bf36-b37cf057c7db.html 4c2f66d7-3d01-49ca-9a26-d2c13f74007a.html
985ac82c-9868-4b5c-bf36-b37cf057c7db.html 5273837b-bc7d-4ee4-944e-57f1b18e3ef83.html
985ac82c-9868-4b5c-bf36-b37cf057c7db.html d886a4e7-833e-4c53-954b-5aafca4bf69e.html
985ac82c-9868-4b5c-bf36-b37cf057c7db.html afc6a69a-da2b-4fa1-aded-0c1af0c6e476.html
985ac82c-9868-4b5c-bf36-b37cf057c7db.html be2c20d5-2843-4ecd-96a1-bab268ac7876.html
985ac82c-9868-4b5c-bf36-b37cf057c7db.html be2c20d5-2843-4ecd-96a1-bab268ac7876.html
985ac82c-9868-4b5c-bf36-b37cf057c7db.html 9cfc2f22-bf28-4334-ab88-392b3c66fb2.html
985ac82c-9868-4b5c-bf36-b37cf057c7db.html da5c5afc-3835-45c2-b9d8-e86fbf86e63b.html
985ac82c-9868-4b5c-bf36-b37cf057c7db.html b2c20d5-2843-4ecd-96a1-bab268ac7876.html
```

1.3 Using NetworkX to calculate the page rank for this. Just easily apply

```
pr = nx.pagerank(G, alpha=0.85, personalization=None, max_iter=30, tol=1e-06,
nstart=None, weight='weight', dangling=None)
```

to get the graph. And Next step is output the results of each node (document). And set the format as <id> = <pagerank>

```
3 /Users/Bruce/Desktop/20spring/572/CSCI572-in-USC/hw4/solr-7.7.2/crawl_data/latimes/0deccfca-87b6-4072-b173-75faad2acb18.html=9.04148944390476e-06
4 /Users/Bruce/Desktop/20spring/572/CSCI572-in-USC/hw4/solr-7.7.2/crawl_data/latimes/8d243338b-94be-4eaf-90cc-6ccf26611e80.html=0.018968727362628505
5 /Users/Bruce/Desktop/20spring/572/CSCI572-in-USC/hw4/solr-7.7.2/crawl_data/latimes/c92d8006-e047-4fea-b709-8f470d21ae87.html=7.818600962433936e-06
6 /Users/Bruce/Desktop/20spring/572/CSCI572-in-USC/hw4/solr-7.7.2/crawl_data/latimes/5763fc4e-d44b-4bb9-ab4c-5554d4c06841.html=0.021522496799140544
7 /Users/Bruce/Desktop/20spring/572/CSCI572-in-USC/hw4/solr-7.7.2/crawl_data/latimes/daf3b5d0-46cd-42a6-8e0a-cd7706308213.html=8.02156825431413e-06
8 /Users/Bruce/Desktop/20spring/572/CSCI572-in-USC/hw4/solr-7.7.2/crawl_data/latimes/f3b98fc9-6fbc-4fa9-8d3f-02b84d0afd8a.html=0.018038779959082808
9 /Users/Bruce/Desktop/20spring/572/CSCI572-in-USC/hw4/solr-7.7.2/crawl_data/latimes/2c97c23e-cdae-4abe-b08b-64d3bd9aac1c.html=7.818600962433936e-06
10 /Users/Bruce/Desktop/20spring/572/CSCI572-in-USC/hw4/solr-7.7.2/crawl_data/latimes/b485e194-75ab-4b06-abb1-3ab3c84c8f2d.html=9.092639766197017e-06
```

Solr

2.1 using example php code to build the front end. Which could make a query and send the request to the Solr system, and fetch the results. So what we need to do is filter the data, and present it in a clear way. We just need id, title, og_description and og_url. SO for my method is to show the fields which is those name, therefor we get only four fields only for each result.

1. **id** /Users/Bruce/Desktop/20spring/572/CSCI572-in-USC/hw4/solr-7.7.2/crawl_data/latimes/fdf1ee76-33d3-440c-b7e5-7cd8e82f32ca.html
title HTML Sitemap - October 2002 - Los Angeles Times
2. **id** /Users/Bruce/Desktop/20spring/572/CSCI572-in-USC/hw4/solr-7.7.2/crawl_data/latimes/008ab05c-2eeb-46e7-ba4f-753581883c42.html
title Art openings in L.A. this week: Hugo Crosthwaite at Luis de Jesus - Los Angeles Times
og_description Art openings around L.A., including a new LACMA installation, Iranian perspectives, Annie Lapin, R.B. Kitaj and women artists of Cold War Eastern Europe.
og_url <https://www.latimes.com/entertainment-arts/story/2019-11-07/datebook-hugo-crosthwaite-luis-de-jesus-los-angeles>
3. **id** /Users/Bruce/Desktop/20spring/572/CSCI572-in-USC/hw4/solr-7.7.2/crawl_data/latimes/2b71b952-46c5-4653-8a2b-556b22fbc611.html
title Review: 'By the Grace of God' explores France's Catholic Church scandal - Los Angeles Times
og_description François Ozon's coolly devastating drama 'By the Grace of God' follows survivors of sexual abuse by a Catholic priest in Lyon, France.
og_url <https://www.latimes.com/entertainment-arts/movies/story/2019-10-24/by-the-grace-of-god-review-catholic-church>

2.2 install Solr and start solr at localhost port 8983.

2.3 new core. We need to create a new core -> myexample, and enable

<copyField source="*" dest="_text_"/> In managed-schema.

then run the index by lucene.

The screenshot shows the Solr Admin UI. On the left, there's a sidebar with navigation links: Dashboard, Logging, Core Admin, Java Properties, Thread Dump, Overview, and Analysis. The main area shows the search results for the 'myexample' core. The search query is 'Virus'. The results are sorted by relevance. The first result is about a virus in a protein.

2.4 apply page rank to solr. Motify two documents `managed-schema` and `solrconfig.xml` for using external `_pageRankFile` to sort the results

The screenshot shows the Solr Admin UI. On the left, there's a sidebar with navigation links: Dashboard, Logging, Core Admin, Java Properties, Thread Dump, Overview, and Analysis. The main area shows the search results for the 'myexample' core. The search query is 'Virus&sort=pageRankFile desc'. The results are sorted by page rank.

2.5 using

```
$additionalParameters = array(
    'sort' => 'pageRankFile desc'
);
```

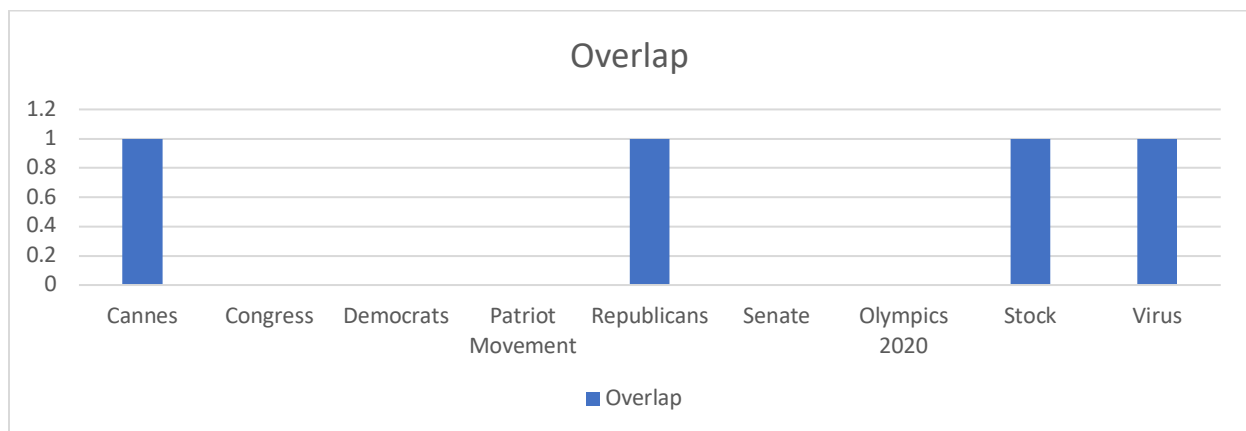
```
$results = $solr->search($query, 0, $limit, $additionalParameters);
```

To fetch data which using the sort to get the results follow the pageRankFile results.

Result

Query	Overlap
Cannes	1
Congress	0
Democrats	0
Patriot Movement	0
Republicans	1
Senate	0

Olympics 2020	0
Stock	1
Virus	1



the Links table and screenshots are attached in the end.

I just post it as screenshot rather than table, I also attach it after the each image. (for image, I use another code, that maybe have null og_url, but I use another code for it to present id, og_url, and title so to ensure the url)

About Page Rank Values

PageRank use the weight only focus on how many pages point out and point to this page. So the higher page weight because more pages point to it. And for Solr algorithm, it use tf-idf value to calculate the weight for Boolean and vector model.

There are different algorithm to weight pages, the more pages point to it will get higher weight and another is base on word. That's the reason why there are different page rank values.

The search results and overlapping

Search:

Results 1 - 10 of 144:

1. <https://www.latimes.com/topic/cannes-film-festival>
2. <https://www.latimes.com/entertainment/movies/la-et-mn-cannes-wrap-critics-conversation-20190526-story.html>
3. <https://www.latimes.com/entertainment/movies/moviesnow/la-et-mn-cannes-2015-winners-20150524-story.html>
4. <https://www.latimes.com/entertainment/movies/la-et-mn-cannes-film-festival-award-winners-20190525-story.html>
5. <https://www.latimes.com/entertainment/movies/la-et-mn-cannes-parasite-atlantics-awards-20190526-story.html>
6. <https://www.latimes.com/entertainment/movies/la-et-mn-cannes-once-upon-a-time-in-hollywood-20190522-story.html>
7. <https://www.latimes.com/entertainment/movies/la-ca-mn-cannes-genre-parasite-wild-goose-lake-tarantino-20190522-story.html>
8. <https://www.latimes.com/entertainment/movies/la-et-mn-cannes-mektoub-my-love-intermezzo-abdellatif-kechiche-20190523-story.html>
9. <https://www.latimes.com/entertainment/movies/la-et-mn-cannes-quentin-tarantino-once-upon-a-time-in-hollywood-20190521-story.html>
10. <https://www.latimes.com/entertainment/movies/la-et-mn-cannes-robert-eggers-the-lighthouse-robert-pattinson-20190524-story.html>

Results for PageRank1 - 10 of 144:

- 1.
2. <https://www.latimes.com/espanol/entretenimiento/articulo/2019-10-04/por-fin-llega-joker-aqui-un-resumen-de-todo-el-drama-que-ha-provocado>
3. <https://www.latimes.com/entertainment-arts/movies/story/2019-11-08/documentaries-apollo-11-the-cave-sea-of-shadows-honeyland>
4. <https://www.latimes.com/lifestyle/gallery/chloe-sevignys-five-favorite-frocks>
5. <https://www.latimes.com/topic/film-festivals>
6. <https://www.latimes.com/topic/cannes-film-festival>
7. <https://www.latimes.com/people/genaro-molina>
8. <https://www.latimes.com/entertainment-arts/music/story/2019-11-06/whitney-houston-lesbian-relationship-robyn-crawford>
9. <https://www.latimes.com/entertainment-arts/movies/story/2019-10-31/apple-disney-hbomax-streaming-movies>
10. <https://www.latimes.com/opinion/story/2019-09-17/patt-morrison-dana-thomas-fast-fashion-environment>

The Amount of Overlap: 1

https://www.latimes.com/topic/cannes-film-festival https://www.latimes.com/entertainment/movies/la-et-mn-cannes-wrap-critics-conversation-20190526-story.html https://www.latimes.com/entertainment/movies/moviesnow/la-et-mn-cannes-2015-winners-20150524-story.html 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-parasite-atlantics-awards-20190526-story.html 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-ca-mn-cannes-genre-parasite-wild-goose-lake-tarantino-20190522-story.html 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-quentin-tarantino-once-upon-a-time-in-hollywood-20190521-story.html https://www.latimes.com/entertainment/movies/la-et-mn-cannes-robert-eggers-the-lighthouse-robert-pattinson-20190524-story.html	https://www.latimes.com/sitemap 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/topic/film-festival https://www.latimes.com/entertainment-arts/movies/story/2019-11-08/documentaries-apollo-11-the-cave-sea-of-shadows-honeyland https://www.latimes.com/lifestyle/gallery/chloe-sevignys-five-favorite-frocks https://www.latimes.com/topic/cannes-film-festival https://www.latimes.com/people/genaro-molina https://www.latimes.com/entertainment-arts/music/story/2019-11-06/whitney-houston-lesbian-relationship-robyn-crawford https://www.latimes.com/entertainment-arts/movies/story/2019-10-31/apple-disney-hbomax-streaming-movies https://www.latimes.com/opinion/story/2019-09-17/patt-morrison-dana-thomas-fast-fashion-environment
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Search:

Results 1 - 10 of 1706:

1. <https://www.latimes.com/opinion/enterthefray/la-ol-new-york-rhode-island-congress-marijuana-20190116-story.html>
2. <https://www.latimes.com/politics/story/2019-10-28/jerry-brown-to-testify-to-congress-rebutting-trumps-criticism-of-california>
3. <https://www.latimes.com/politics/la-na-pol-congress-sexual-harassment-20181212-story.html>
4. <https://www.latimes.com/politics/la-pol-ca-richest-california-lawmakers-20180305-story.html>
5. <https://www.latimes.com/politics/story/2019-09-09/congress-gun-control-government-shutdown>
6. <https://www.latimes.com/opinion/story/2019-10-16/democratic-debate-trump-congress-executive-action>
7. <https://www.latimes.com/politics/story/2019-10-14/trump-ukraine-aid-congress-impeachment>
8. <https://www.latimes.com/politics/la-na-pol-congress-bioweapons-detection-system-20190414-story.html>
9. <https://www.latimes.com/politics/la-na-pol-congress-mueller-pressure-impeachment-20190529-story.html>
10. <https://www.latimes.com/politics/la-pol-ca-richest-in-congress-darrell-issa-story.html>

Results for PageRank1 - 10 of 1706:

1. <https://www.latimes.com/opinion>
2. <https://www.latimes.com/espanol/politica>
3. <https://www.latimes.com/politics/story/2019-11-08/michael-bloomberg-files-papers-for-2020-democratic-presidential-primary>
4. <https://www.latimes.com/opinion/story/2019-11-09/facebook-twitter-political-ads-lies>
5. <https://www.latimes.com/politics/story/2019-11-08/elizabeth-warren-used-bare-knuckle-tactics-to-take-down-an-obama-nominee>
6. <https://www.latimes.com/opinion/story/2019-11-09/devin-nunes-impeachment-witness-list>
7. <https://www.latimes.com/environment/story/2019-11-08/eastern-sierra-towns-recreation-tourism-forest-service>
8. <https://www.latimes.com/politics/story/2019-11-08/steve-bannon-roger-stone-trump-campaign-wikileaks>
9. <https://www.latimes.com/opinion/story/2019-11-08/impeachment-trump-republicans-toomey>
10. <https://www.latimes.com/politics/story/2019-11-08/alexander-vindman-fiona-hill-impeachment-transcripts>

The Amount of Overlap: 0

<ol style="list-style-type: none">1. https://www.latimes.com/opinion/enterthefray/la-ol-new-york-rhode-island-congress-marijuana-20190116-story.html2. https://www.latimes.com/politics/story/2019-10-28/jerry-brown-to-testify-to-congress-rebutting-trumps-criticism-of-california3. https://www.latimes.com/politics/la-na-pol-congress-sexual-harassment-20181212-story.html4. https://www.latimes.com/politics/la-pol-ca-richest-california-lawmakers-20180305-story.html5. https://www.latimes.com/politics/story/2019-09-09/congress-gun-control-government-shutdown6. https://www.latimes.com/opinion/story/2019-10-16/democratic-debate-trump-congress-executive-action7. https://www.latimes.com/politics/story/2019-10-14/trump-ukraine-aid-congress-impeachment8. https://www.latimes.com/politics/la-na-pol-congress-bioweapons-detection-system-20190414-story.html9. https://www.latimes.com/politics/la-na-pol-congress-mueller-pressure-impeachment-20190529-story.html10. https://www.latimes.com/politics/la-pol-ca-richest-in-congress-darrell-issa-story.html	<ol style="list-style-type: none">1. https://www.latimes.com/opinion2. https://www.latimes.com/espanol/politica3. https://www.latimes.com/politics/story/2019-11-08/michael-bloomberg-files-papers-for-2020-democratic-presidential-primary4. https://www.latimes.com/opinion/story/2019-11-09/facebook-twitter-political-ads-lies5. https://www.latimes.com/politics/story/2019-11-08/elizabeth-warren-used-bare-knuckle-tactics-to-take-down-an-obama-nominee6. https://www.latimes.com/opinion/story/2019-11-09/devin-nunes-impeachment-witness-list7. https://www.latimes.com/environment/story/2019-11-08/eastern-sierra-towns-recreation-tourism-forest-service8. https://www.latimes.com/politics/story/2019-11-08/steve-bannon-roger-stone-trump-campaign-wikileaks9. https://www.latimes.com/opinion/story/2019-11-08/impeachment-trump-republicans-toomey10. https://www.latimes.com/politics/story/2019-11-08/alexander-vindman-fiona-hill-impeachment-transcripts
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Search:

Results 1 - 10 of 1900:

1. <https://www.latimes.com/politics/story/2019-11-07/house-democrats-subpoena-mick-mulvaney-in-impeachment-probe>
2. <https://www.latimes.com/opinion/story/2019-11-05/impeachment-donald-trump-democrats-political-cost-elections>
3. <https://www.latimes.com/politics/story/2019-11-03/iowa-democrats-candidate-beat-trump>
4. <https://www.latimes.com/politics/story/2019-10-17/democrats-quick-impeachment-timing-complicated>
5. <https://www.latimes.com/politics/story/2019-10-08/impeachment-trump-democrats-whistleblower-identity-testimony>
6. <https://www.latimes.com/politics/story/2019-09-24/democrats-and-pelosi-appear-close-to-tipping-point-on-impeachment>
7. <https://www.latimes.com/politics/story/2019-09-29/trump-allies-and-democrats-reveal-the-deep-divisions-over-impeachment-inquiry>
8. <https://www.latimes.com/politics/story/2019-08-01/assignment-post-debate-health-care-analysis-new-story>
9. <https://www.latimes.com/nation/ct-democrats-economic-plan-20170824-story.html>
10. <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>

Results for PageRank1 - 10 of 1900:

1. <https://www.latimes.com/california>
2. <https://www.latimes.com/opinion>
3. <https://www.latimes.com/politics>
4. <https://www.latimes.com/politics/story/2019-11-08/michael-bloomberg-files-papers-for-2020-democratic-presidential-primary>
5. <https://www.latimes.com/politics/story/2019-11-08/democratic-primary-debate-moves-from-ucla-to-loyola-marymount-university>
6. <https://www.latimes.com/politics/story/2019-11-08/elizabeth-warren-used-bare-knuckle-tactics-to-take-down-an-obama-nominee>
7. <https://www.latimes.com/opinion/story/2019-11-09/elizabeth-warren-trump>
8. <https://www.latimes.com/opinion/story/2019-11-09/devin-nunes-impeachment-witness-list>
9. <https://www.latimes.com/politics/story/2019-11-08/steve-bannon-roger-stone-trump-campaign-wikileaks>
10. <https://www.latimes.com/opinion/story/2019-11-08/impeachment-trump-republicans-toomey>

The Amount of Overlap: 0

<ol style="list-style-type: none">1. https://www.latimes.com/politics/story/2019-11-07/house-democrats-subpoena-mick-mulvaney-in-impeachment-probe2. https://www.latimes.com/opinion/story/2019-11-05/impeachment-donald-trump-democrats-political-cost-elections3. https://www.latimes.com/politics/story/2019-11-03/iowa-democrats-candidate-beat-trump4. https://www.latimes.com/politics/story/2019-10-17/democrats-quick-impeachment-timing-complicated5. https://www.latimes.com/politics/story/2019-10-08/impeachment-trump-democrats-whistleblower-identity-testimony6. https://www.latimes.com/politics/story/2019-09-24/democrats-and-pelosi-appear-close-to-tipping-point-on-impeachment7. https://www.latimes.com/politics/story/2019-09-29/trump-allies-and-democrats-reveal-the-deep-divisions-over-impeachment-inquiry8. https://www.latimes.com/politics/story/2019-08-01/assignment-post-debate-health-care-analysis-new-story9. https://www.latimes.com/nation/ct-democrats-economic-plan-20170824-story.html10. 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	<ol style="list-style-type: none">1. https://www.latimes.com/california2. https://www.latimes.com/opinion3. https://www.latimes.com/politics4. https://www.latimes.com/politics/story/2019-11-08/michael-bloomberg-files-papers-for-2020-democratic-presidential-primary5. https://www.latimes.com/politics/story/2019-11-08/democratic-primary-debate-moves-from-ucla-to-loyola-marymount-university6. https://www.latimes.com/politics/story/2019-11-08/elizabeth-warren-used-bare-knuckle-tactics-to-take-down-an-obama-nominee7. https://www.latimes.com/opinion/story/2019-11-09/elizabeth-warren-trump8. https://www.latimes.com/opinion/story/2019-11-09/devin-nunes-impeachment-witness-list9. https://www.latimes.com/politics/story/2019-11-08/steve-bannon-roger-stone-trump-campaign-wikileaks10. https://www.latimes.com/opinion/story/2019-11-08/impeachment-trump-republicans-toomey
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Search:

Results 1 - 10 of 1257:

1. <https://www.latimes.com/archives/la-xpm-2012-oct-23-la-me-russell-means-20121023-story.html>
2. <https://www.latimes.com/staff/megan-garvey>
3. <https://www.latimes.com/archives/la-xpm-2001-jun-10-mn-8792-story.html>
4. <https://www.latimes.com/entertainment-arts/books/story/2019-10-25/shadowlands-anthony-mccann-oregon-standoff>
5. <https://www.latimes.com/sports/highschool/story/2019-11-06/girls-tennis-southern-section-playoff-results-and-updated-pairings>
6. <https://www.latimes.com/politics/story/2019-09-20/bernie-sanders-muslim-voters-2020>
7. <https://www.latimes.com/sports/nba/la-sp-nba-best-game-ever-20181222-story.html>
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9. <https://www.latimes.com/entertainment/movies/la-et-mn-july-4-box-office-history-20180629-story.html>
10. <https://www.latimes.com/entertainment/movies/la-et-mn-july-4-box-office-history-20180629-story.html>

Results for PageRank1 - 10 of 1257:

1. <https://www.latimes.com/environment>
2. <https://www.latimes.com/science>
3. <https://www.latimes.com/california/story/2019-11-09/prop-187-anniversary-commemoration>
4. <https://www.latimes.com/entertainment-arts/story/2019-11-09/classical-music-things-to-do-in-la-this-week-nov-10-17-magic-flute-la-opera>
5. <https://www.latimes.com/entertainment-arts/story/2019-11-09/theater-things-to-do-in-la-this-week-nov-10-17-dr-seuss-how-the-grinch-stole-christmas-old-globe-key-largo-andy-garcia-geffen-playhouse>
6. <https://www.latimes.com/food/story/2019-11-07/kung-pao-chicken-history-recipe-gong-bao>
7. <https://www.latimes.com/obituaries/story/2019-11-04/james-stern-obit-black-activist-who-led-neo-nazi-group-dies-amid-bid-to-destroy-it>
8. <https://www.latimes.com/topic/column-one>
9. <https://www.latimes.com/topic/mexico-americas>
10. <https://www.latimes.com/topic/museums>

The Amount of Overlap: 0

<ol style="list-style-type: none">1. https://www.latimes.com/archives/la-xpm-2012-oct-23-la-me-russell-means-20121023-story.html2. https://www.latimes.com/staff/megan-garvey3. https://www.latimes.com/archives/la-xpm-2001-jun-10-mn-8792-story.html4. https://www.latimes.com/entertainment-arts/books/story/2019-10-25/shadowlands-anthony-mccann-oregon-standoff5. https://www.latimes.com/sports/highschool/story/2019-11-06/girls-tennis-southern-section-playoff-results-and-updated-pairings6. https://www.latimes.com/politics/story/2019-09-20/bernie-sanders-muslim-voters-20207. https://www.latimes.com/sports/nba/la-sp-nba-best-game-ever-20181222-story.html8. https://www.latimes.com/sports/highschool/story/2019-11-06/girls-tennis-southern-section-playoff-results-and-updated-pairings9. https://www.latimes.com/entertainment/movies/la-et-mn-july-4-box-office-history-20180629-story.html10. https://www.latimes.com/entertainment/movies/la-et-mn-july-4-box-office-history-20180629-story.html	<ol style="list-style-type: none">1. https://www.latimes.com/environment2. https://www.latimes.com/science3. https://www.latimes.com/california/story/2019-11-09/prop-187-anniversary-commemoration4. https://www.latimes.com/entertainment-arts/story/2019-11-09/classical-music-things-to-do-in-la-this-week-nov-10-17-magic-flute-la-opera5. https://www.latimes.com/entertainment-arts/story/2019-11-09/theater-things-to-do-in-la-this-week-nov-10-17-dr-seuss-how-the-grinch-stole-christmas-old-globe-key-largo-andy-garcia-geffen-playhouse6. https://www.latimes.com/food/story/2019-11-07/kung-pao-chicken-history-recipe-gong-bao7. https://www.latimes.com/obituaries/story/2019-11-04/james-stern-obit-black-activist-who-led-neo-nazi-group-dies-amid-bid-to-destroy-it8. https://www.latimes.com/topic/column-one9. https://www.latimes.com/topic/mexico-americas10. https://www.latimes.com/topic/museums
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Search:

Results 1 - 10 of 1624:

1. <https://www.latimes.com/opinion/story/2019-10-23/house-republicans-storm-hearing-impeachment>
2. <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>
3. <https://www.latimes.com/opinion/story/2019-11-08/impeachment-trump-republicans-toomey>
4. <https://www.latimes.com/politics/story/2019-10-04/vulnerable-senate-republicans-impeachment>
5. <https://www.latimes.com/california/story/2019-10-16/california-republicans-democrats-wildfires-homelessness>
6. <https://www.latimes.com/politics/story/2019-10-23/impeachment-deposition-room-stormed-by-republicans>
7. <https://www.latimes.com/opinion/story/2019-09-17/california-republicans-trump-fundraising-president>
8. <https://www.latimes.com/politics/story/2019-10-28/katie-hill-resignation-trump-obstacle-for-republicans>
9. <https://www.latimes.com/opinion/story/2019-11-06/trump-republicans-democrats-predictions-polling-2020>
10. <https://www.latimes.com/politics/story/2019-11-06/republicans-election-trump-candidate-loses-kentucky>

Results for PageRank1 - 10 of 1624:

1. <https://www.latimes.com/>
2. <https://www.latimes.com/opinion>
3. <https://www.latimes.com/opinion/la-letter-to-the-editor-htmlstory.html>
4. <https://www.latimes.com/opinion/story/2019-11-09/facebook-twitter-political-ads-lies>
5. <https://www.latimes.com/opinion/story/2019-11-08/berlin-wall-30th-anniversary-cold-war-donald-trump>
6. <https://www.latimes.com/politics/story/2019-11-08/elizabeth-warren-used-bare-knuckle-tactics-to-take-down-an-obama-nominee>
7. <https://www.latimes.com/opinion/story/2019-11-09/elizabeth-warren-trump>
8. <https://www.latimes.com/opinion/story/2019-11-09/devin-nunes-impeachment-witness-list>
9. <https://www.latimes.com/opinion/story/2019-11-09/sat-uc-college-admissions>
10. <https://www.latimes.com/opinion/story/2019-11-08/impeachment-trump-republicans-toomey>

The Amount of Overlap: 1

<ol style="list-style-type: none">1. https://www.latimes.com/opinion/story/2019-10-23/house-republicans-storm-hearing-impeachment2. https://www.latimes.com/politics/story/2019-10-30/democrats-hoped-theyd-win-over-republicans-on-impeachment-but-its-not-looking-that-way-so-far3. https://www.latimes.com/opinion/story/2019-11-08/impeachment-trump-republicans-toomey4. https://www.latimes.com/politics/story/2019-10-04/vulnerable-senate-republicans-impeachment5. https://www.latimes.com/california/story/2019-10-16/california-republicans-democrats-wildfires-homelessness6. https://www.latimes.com/politics/story/2019-10-23/impeachment-deposition-room-stormed-by-republicans7. https://www.latimes.com/opinion/story/2019-09-17/california-republicans-trump-fundraising-president8. https://www.latimes.com/politics/story/2019-10-28/katie-hill-resignation-trump-obstacle-for-republicans9. https://www.latimes.com/opinion/story/2019-11-06/trump-republicans-democrats-predictions-polling-202010. https://www.latimes.com/politics/story/2019-11-06/republicans-election-trump-candidate-loses-kentucky	<ol style="list-style-type: none">1. https://www.latimes.com/2. https://www.latimes.com/opinion3. https://www.latimes.com/opinion/la-letter-to-the-editor-htmlstory.html4. https://www.latimes.com/opinion/story/2019-11-09/facebook-twitter-political-ads-lies5. https://www.latimes.com/opinion/story/2019-11-08/berlin-wall-30th-anniversary-cold-war-donald-trump6. https://www.latimes.com/politics/story/2019-11-08/elizabeth-warren-used-bare-knuckle-tactics-to-take-down-an-obama-nominee7. https://www.latimes.com/opinion/story/2019-11-09/elizabeth-warren-trump8. https://www.latimes.com/opinion/story/2019-11-09/devin-nunes-impeachment-witness-list9. https://www.latimes.com/opinion/story/2019-11-09/sat-uc-college-admissions10. https://www.latimes.com/opinion/story/2019-11-08/impeachment-trump-republicans-toomey
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Search:

Results 1 - 10 of 1974:

1. <https://www.latimes.com/politics/story/2019-11-07/gop-is-already-thinking-about-how-to-turn-a-senate-impeachment-trial-to-trumps-advantage>
2. <https://www.latimes.com/politics/story/2019-10-30/california-donors-spend-millions-on-2020-senate-races-across-the-country>
3. <https://www.latimes.com/politics/story/2019-10-04/vulnerable-senate-republicans-impeachment>
4. <https://www.latimes.com/politics/la-na-pol-kavanaugh-hearing-20180927-story.html>
5. <https://www.latimes.com/nation/la-pol-scotus-confirmation-votes-over-the-years-20181005-htmstory.html>
6. <https://www.latimes.com/politics/story/2019-08-14/2020-senate-control-presidential-race>
7. <https://www.latimes.com/politics/story/2019-08-14/john-hickenlooper-quits-presidential-race-for-senate-run>
8. <https://www.latimes.com/politics/story/2019-10-30/california-donors-spend-millions-on-2020-senate-races-across-the-country>
9. <https://www.latimes.com/politics/la-na-pol-william-barr-senate-confirm-attorney-general-20190214-story.html>
10. <https://www.latimes.com/opinion/story/2019-10-15/wmcaleen-homeland-security-trump-nielsen-senate-acting-secretary>

Results for PageRank1 - 10 of 1974:

1. <https://www.latimes.com/>
2. <https://www.latimes.com/opinion>
3. <https://www.latimes.com/california/story/2019-11-09/prop-187-anniversary-commemoration>
4. <https://www.latimes.com/opinion/la-letter-to-the-editor-htmstory.html>
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9. <https://www.latimes.com/opinion/story/2019-11-09/devin-nunes-impeachment-witness-list>
10. <https://www.latimes.com/opinion/story/2019-11-09/sat-uc-college-admissions>

The Amount of Overlap: 0

<ol style="list-style-type: none">1. https://www.latimes.com/politics/story/2019-11-07/gop-is-already-thinking-about-how-to-turn-a-senate-impeachment-trial-to-trumps-advantage2. https://www.latimes.com/politics/story/2019-10-30/california-donors-spend-millions-on-2020-senate-races-across-the-country3. https://www.latimes.com/politics/story/2019-10-04/vulnerable-senate-republicans-impeachment4. https://www.latimes.com/politics/la-na-pol-kavanaugh-hearing-20180927-story.html5. https://www.latimes.com/nation/la-pol-scotus-confirmation-votes-over-the-years-20181005-htmstory.html6. https://www.latimes.com/politics/story/2019-08-14/2020-senate-control-presidential-race7. https://www.latimes.com/politics/story/2019-08-14/john-hickenlooper-quits-presidential-race-for-senate-run8. https://www.latimes.com/politics/story/2019-10-30/california-donors-spend-millions-on-2020-senate-races-across-the-country9. https://www.latimes.com/politics/la-na-pol-william-barr-senate-confirm-attorney-general-20190214-story.html10. https://www.latimes.com/opinion/story/2019-10-15/wmcaleen-homeland-security-trump-nielsen-senate-acting-secretary	<ol style="list-style-type: none">1. https://www.latimes.com/2. https://www.latimes.com/opinion3. https://www.latimes.com/california/story/2019-11-09/prop-187-anniversary-commemoration4. https://www.latimes.com/opinion/la-letter-to-the-editor-htmstory.html5. https://www.latimes.com/opinion/story/2019-11-09/facebook-twitter-political-ads-lies6. https://www.latimes.com/opinion/story/2019-11-08/berlin-wall-30th-anniversary-cold-war-donald-trump7. https://www.latimes.com/politics/story/2019-11-08/elizabeth-warren-used-bare-knuckle-tactics-to-take-down-an-obama-nominee8. https://www.latimes.com/opinion/story/2019-11-09/elizabeth-warren-trump9. https://www.latimes.com/opinion/story/2019-11-09/devin-nunes-impeachment-witness-list10. https://www.latimes.com/opinion/story/2019-11-09/sat-uc-college-admissions
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Search:

Results 1 - 10 of 242:

1. <https://www.latimes.com/espanol/internacional/articulo/2019-11-09/monos-se-volvieron-inmunes-tras-inocularles-virus-del-ebola-con-mutacion>
2. <https://www.latimes.com/science/sciencenow/la-sci-science-of-zika-five-ways-20160223-htlstory.html>
3. <https://www.latimes.com/espanol/internacional/articulo/2019-11-09/monos-se-volvieron-inmunes-tras-inocularles-virus-del-ebola-con-mutacion>
4. <https://www.latimes.com/science/story/2019-10-21/virus-afm-illness-paralyzing-kids>
5. <https://www.latimes.com/science/story/2019-10-21/virus-afm-illness-paralyzing-kids>
6. <https://www.latimes.com/socal/daily-pilot/news/tn-dpt-me-west-nile-20170707-story.html>
7. <https://www.latimes.com/science/sciencenow/la-sci-sn-acute-flaccid-myelitis-polio-20181017-story.html>
8. <https://www.latimes.com/local/lanow/la-me-ln-virulent-newcastle-disease-outbreak-in-southern-california-20190607-story.html>
9. <https://www.latimes.com/world-nation/story/2019-09-04/anti-vaxxers-helping-polio-comeback-pakistan>
10. <https://www.latimes.com/local/obituaries/la-me-deborah-asnis-20150921-story.html>

Results for PageRank1 - 10 of 242:

1. <https://www.latimes.com/terms-of-service>
2. <https://www.latimes.com/espanol/>
3. <https://www.latimes.com/science>
4. <https://www.latimes.com/espanol/internacional>
5. <https://www.latimes.com/espanol/deportes/articulo/2019-11-09/como-ser-campeon-de-league-of-legends>
6. <https://www.latimes.com/business/story/2019-10-13/body-parts-harvesting-hinders-coroner-autopsies>
7. <https://www.latimes.com/espanol/mexico/articulo/2019-11-09/crean-en-mexico-plataforma-para-medir-impacto-ambiental-de-basura-electronica>
8. <https://www.latimes.com/espanol/internacional/articulo/2019-11-09/el-nuevo-mitsubishi-mirage-pudiera-arribar-a-mediados-del-proximo-ano>
9. <https://www.latimes.com/espanol/internacional/articulo/2019-11-09/monos-se-volvieron-inmunes-tras-inocularles-virus-del-ebola-con-mutacion>
10. <https://www.latimes.com/espanol/internacional/articulo/2019-11-09/una-tortuga-tecnologica-para-detectar-microplasticos-en-los-oceanos>

The Amount of Overlap: 1

<ol style="list-style-type: none">1. https://www.latimes.com/espanol/internacional/articulo/2019-11-09/monos-se-volvieron-inmunes-tras-inocularles-virus-del-ebola-con-mutacion2. https://www.latimes.com/science/sciencenow/la-sci-science-of-zika-five-ways-20160223-htlstory.html3. https://www.latimes.com/espanol/internacional/articulo/2019-11-09/monos-se-volvieron-inmunes-tras-inocularles-virus-del-ebola-con-mutacion4. https://www.latimes.com/science/story/2019-10-21/virus-afm-illness-paralyzing-kids5. https://www.latimes.com/science/story/2019-10-21/virus-afm-illness-paralyzing-kids6. https://www.latimes.com/socal/daily-pilot/news/tn-dpt-me-west-nile-20170707-story.html7. https://www.latimes.com/science/sciencenow/la-sci-sn-acute-flaccid-myelitis-polio-20181017-story.html8. https://www.latimes.com/local/lanow/la-me-ln-virulent-newcastle-disease-outbreak-in-southern-california-20190607-story.html9. https://www.latimes.com/world-nation/story/2019-09-04/anti-vaxxers-helping-polio-comeback-pakistan10. https://www.latimes.com/local/obituaries/la-me-deborah-asnis-20150921-story.html	<ol style="list-style-type: none">1. https://www.latimes.com/terms-of-service2. https://www.latimes.com/espanol/3. https://www.latimes.com/science4. https://www.latimes.com/espanol/internacional5. https://www.latimes.com/espanol/deportes/articulo/2019-11-09/como-ser-campeon-de-league-of-legends6. https://www.latimes.com/business/story/2019-10-13/body-parts-harvesting-hinders-coroner-autopsies7. https://www.latimes.com/espanol/mexico/articulo/2019-11-09/crean-en-mexico-plataforma-para-medir-impacto-ambiental-de-basura-electronica8. https://www.latimes.com/espanol/internacional/articulo/2019-11-09/el-nuevo-mitsubishi-mirage-pudiera-arribar-a-mediados-del-proximo-ano9. https://www.latimes.com/espanol/internacional/articulo/2019-11-09/monos-se-volvieron-inmunes-tras-inocularles-virus-del-ebola-con-mutacion10. https://www.latimes.com/espanol/internacional/articulo/2019-11-09/una-tortuga-tecnologica-para-detectar-microplasticos-en-los-oceanos
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Search:

Results 1 - 10 of 3512:

1. <https://www.latimes.com/sports/olympics/story/2019-08-15/2020-tokyo-olympics-searching-for-answers-amid-heat-wave>
2. <https://www.latimes.com/sports/olympics>
3. <https://www.latimes.com/people/david-wharton>
4. <https://www.latimes.com/people/david-wharton>
5. <https://www.latimes.com/sports/olympics/story/2019-10-16/2020-tokyo-olympics-marathon-sapporo-avoid-heat>
6. <https://www.latimes.com/sports/olympics/story/2019-07-31/deadly-heat-wave-2020-summer-olympics-tokyo>
7. <https://www.latimes.com/sports/story/2019-11-05/ioc-anti-doping-2020-tokyo-olympics>
8. <https://www.latimes.com/sports/olympics/story/2019-10-10/naomi-osaka-chooses-japan-over-u-s-2020-tokyo-olympics>
9. <https://www.latimes.com/sports/story/2019-07-23/tokyos-rough-road-to-2020-summer-olympics>
10. <https://www.latimes.com/people/david-wharton>

Results for PageRank1 - 10 of 3512:

1. <https://www.latimes.com/>
2. <https://www.latimes.com/sports>
3. <https://www.latimes.com/opinion>
4. <https://www.latimes.com/business>
5. <https://www.latimes.com/entertainment-arts>
6. <https://www.latimes.com/world-nation>
7. <https://www.latimes.com/environment>
8. <https://www.latimes.com/newsroom-directory>
9. <https://www.latimes.com/politics>
10. <https://www.latimes.com/politics>

The Amount of Overlap: 0

<ol style="list-style-type: none">1. https://www.latimes.com/sports/olympics/story/2019-08-15/2020-tokyo-olympics-searching-for-answers-amid-heat-wave2. https://www.latimes.com/sports/olympics3. https://www.latimes.com/people/david-wharton4. https://www.latimes.com/people/david-wharton5. https://www.latimes.com/sports/olympics/story/2019-10-16/2020-tokyo-olympics-marathon-sapporo-avoid-heat6. https://www.latimes.com/sports/olympics/story/2019-07-31/deadly-heat-wave-2020-summer-olympics-tokyo7. https://www.latimes.com/sports/story/2019-11-05/ioc-anti-doping-2020-tokyo-olympics8. https://www.latimes.com/sports/olympics/story/2019-10-10/naomi-osaka-chooses-japan-over-u-s-2020-tokyo-olympics9. https://www.latimes.com/sports/story/2019-07-23/tokyos-rough-road-to-2020-summer-olympics10. https://www.latimes.com/people/david-wharton	<ol style="list-style-type: none">1. https://www.latimes.com/2. https://www.latimes.com/sitemap3. https://www.latimes.com/sports4. https://www.latimes.com/opinion5. https://www.latimes.com/business6. https://www.latimes.com/entertainment-arts7. https://www.latimes.com/world-nation8. https://www.latimes.com/environment9. https://www.latimes.com/newsroom-directory10. https://www.latimes.com/politics
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Search:

Results 1 - 10 of 1644:

1. <https://www.latimes.com/business/story/2019-11-06/uber-lock-up-period-ends-with-falling-stock-protests>
2. <https://www.latimes.com/business/la-fi-lyft-stock-20190401-story.html>
3. <https://www.latimes.com/business/la-fi-hy-tesla-stock-20160518-snap-story.html>
4. <https://www.latimes.com/business/story/2019-11-06/uber-lock-up-period-ends-with-falling-stock-protests>
5. <https://www.latimes.com/business/story/2019-11-09/stock-managers-who-played-defense-in-2019-are-left-scrambling-to-make-up-ground>
6. <https://www.latimes.com/business/la-fi-uber-ipo-stock-trading-price-20190510-story.html>
7. <https://www.latimes.com/business/story/2019-09-09/at-t-stock-surges-elliott-reveals-3-2-billion-stake>
8. <https://www.latimes.com/business/la-fi-stock-market-status-update-20180209-story.html>
9. <https://www.latimes.com/business/la-fi-stock-market-correction-20180212-story.html>
10. <https://www.latimes.com/business/story/2019-11-09/stock-managers-who-played-defense-in-2019-are-left-scrambling-to-make-up-ground>

Results for PageRank1 - 10 of 1644:

1. <https://www.latimes.com/>
2. <https://www.latimes.com/business>
3. <https://www.latimes.com/business/real-estate>
4. <https://www.latimes.com/business/real-estate/story/2019-11-09/hulu-looking-for-alaska-landry-bender>
5. <https://www.latimes.com/business/story/2019-11-08/trump-china-tariffs>
6. <https://www.latimes.com/business/real-estate/story/2019-11-09/hot-property-very-brady-sale-malibu>
7. <https://www.latimes.com/politics/story/2019-11-08/elizabeth-warren-used-bare-knuckle-tactics-to-take-down-an-obama-nominee>
8. <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>
9. <https://www.latimes.com/business/story/2019-11-09/stock-managers-who-played-defense-in-2019-are-left-scrambling-to-make-up-ground>
10. <https://www.latimes.com/business/story/2019-11-08/gap-ceo-was-done-in-by-fashion-missteps-and-fading-brands>

The Amount of Overlap: 1

<ol style="list-style-type: none">1. https://www.latimes.com/business/story/2019-11-06/uber-lock-up-period-ends-with-falling-stock-protests2. https://www.latimes.com/business/la-fi-lyft-stock-20190401-story.html3. https://www.latimes.com/business/la-fi-hy-tesla-stock-20160518-snap-story.html4. https://www.latimes.com/business/story/2019-11-06/uber-lock-up-period-ends-with-falling-stock-protests5. https://www.latimes.com/business/story/2019-11-09/stock-managers-who-played-defense-in-2019-are-left-scrambling-to-make-up-ground6. https://www.latimes.com/business/la-fi-uber-ipo-stock-trading-price-20190510-story.html7. https://www.latimes.com/business/story/2019-09-09/at-t-stock-surges-elliott-reveals-3-2-billion-stake8. https://www.latimes.com/business/la-fi-stock-market-status-update-20180209-story.html9. https://www.latimes.com/business/la-fi-stock-market-correction-20180212-story.html10. https://www.latimes.com/business/story/2019-11-09/stock-managers-who-played-defense-in-2019-are-left-scrambling-to-make-up-ground	<ol style="list-style-type: none">1. https://www.latimes.com/2. https://www.latimes.com/business3. https://www.latimes.com/business/real-estate4. https://www.latimes.com/business/real-estate/story/2019-11-09/hulu-looking-for-alaska-landry-bender5. https://www.latimes.com/business/story/2019-11-08/trump-china-tariffs6. https://www.latimes.com/business/real-estate/story/2019-11-09/hot-property-very-brady-sale-malibu7. https://www.latimes.com/politics/story/2019-11-08/elizabeth-warren-used-bare-knuckle-tactics-to-take-down-an-obama-nominee8. https://www.latimes.com/business/real-estate/story/2019-11-09/hot-property-newsletter-rifleman-leads-the-posse-on-a-little-mosey-down-memory-lane9. https://www.latimes.com/business/story/2019-11-09/stock-managers-who-played-defense-in-2019-are-left-scrambling-to-make-up-ground10. https://www.latimes.com/business/story/2019-11-08/gap-ceo-was-done-in-by-fashion-missteps-and-fading-brands
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