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Report USA Today

Steps used in assignment:

- To accomplish the assignment, I installed Solr on my Mac.
- Initially I followed the steps and tried the default collection with 2 shards by following the link <http://lucene.apache.org/solr/quickstart.html> .
- I started with the cloud deployment but later shifted to the normal deployment as it was not required by the assignment.
- Then I proceeded with the actual folder of USA Today and indexed the html files.
- After indexing the webpages, I created a user interface, in which user can enter his queries and get the top ten results for that query, just like google search using PHP. I used a radio button for Solr and PageRank so that user can select which ranking results he/she wants. Initially this search result ranking was from only Lucene.
- To get results according to Page Rank Algorithm, we had to compute page rank scores using page rank calculation methods as mentioned in the assignment.
- To compute the page rank firstly I created a web network using the outgoing list from the set of input html files provided. I used JAVA code to create edge list for the connections, following similar code which was mentioned in the assignment.
- Following that I used NetworkX to calculate page rank values which was very simple as it involved only few commands.

Following were the parameters used

alpha=0.85

personalization=None

max_iter=30,

tol=1e-06

nstart=None

weight='weight'

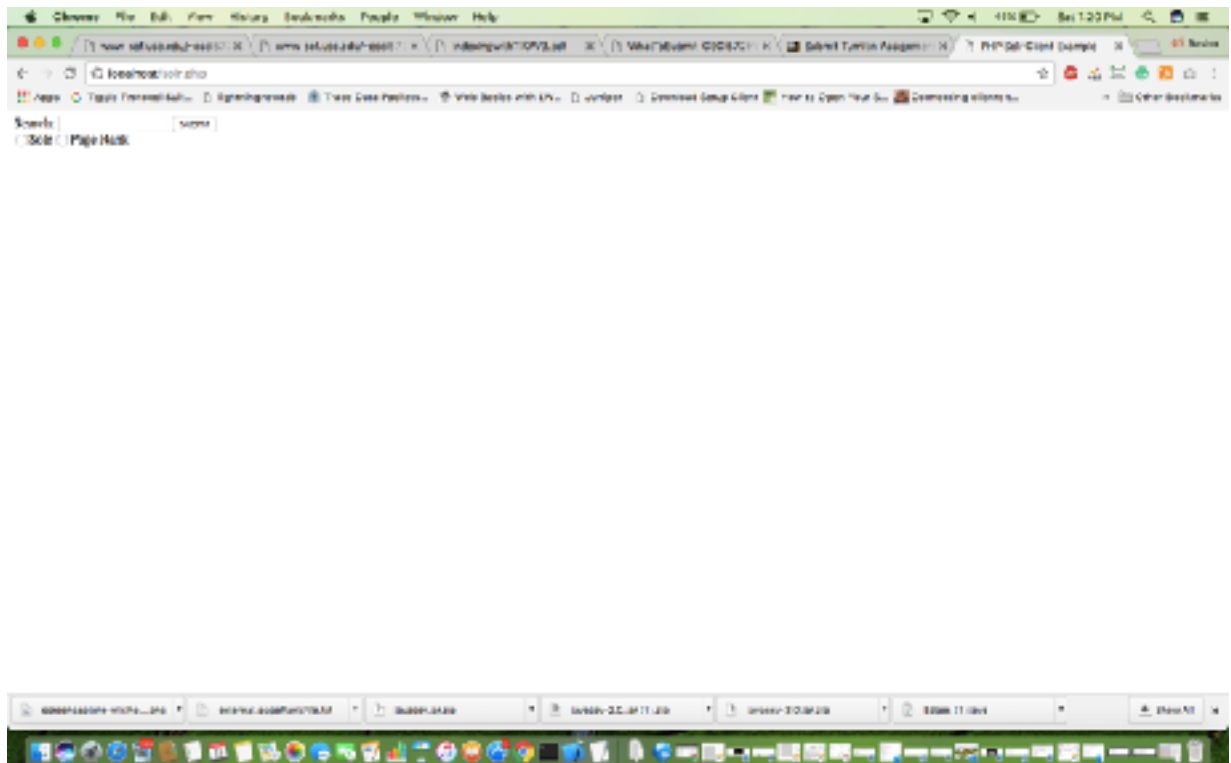
dangling=None

- After computing the page rank scores, I placed this file in the data folder of the core that I had defined that is solr/server/usatoday2/data/external_pageRankFile.txt. Then I made changes in the solrconfig.xml and manages-schema file as mentioned in the assignment.

Some pages have higher page rank values because the number of incoming and outgoing links in that web page are more than others pages. This depicts that the page with higher page rank score has more links, in the form of outgoing links, of the query entered by the user.

Screenshots to describe one complete flow:

Initial Page:



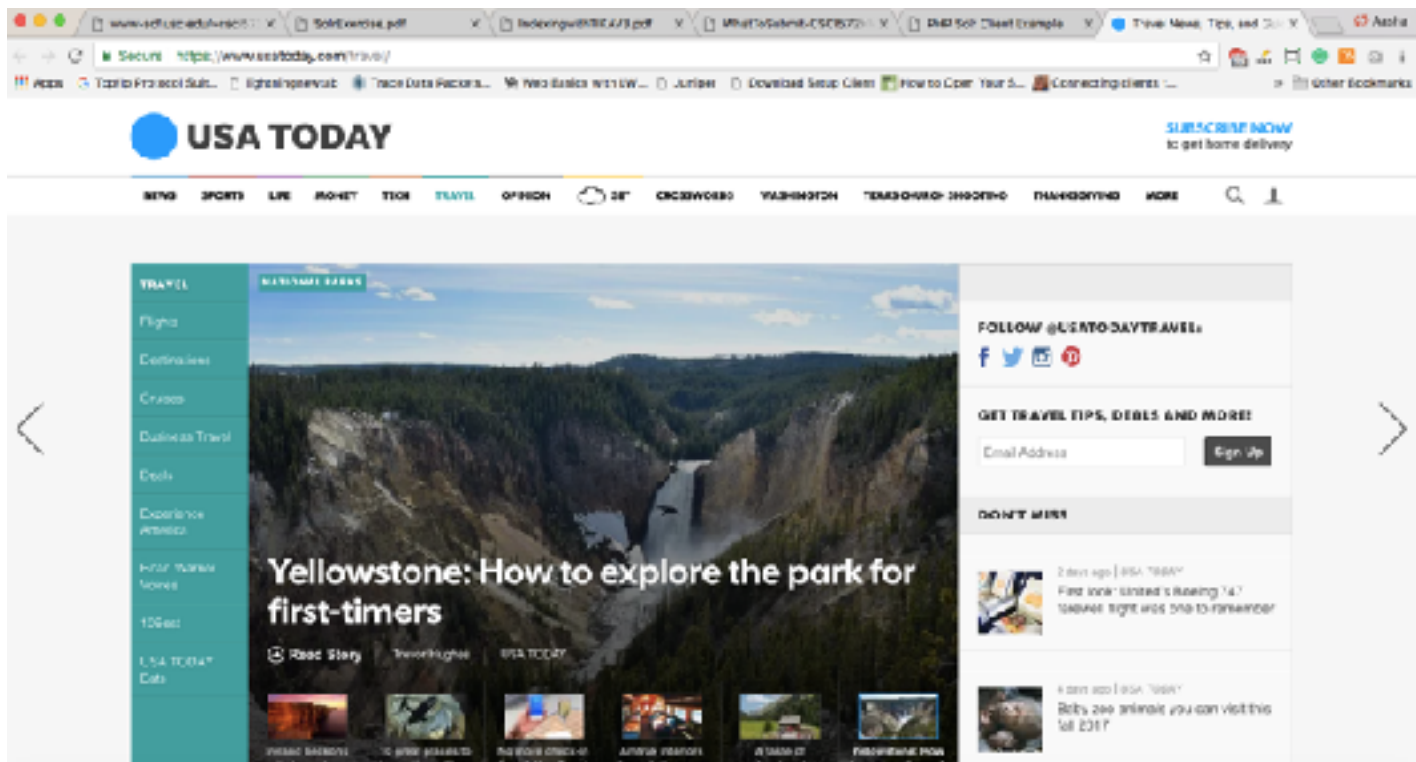
Results 1 - 10 of 132

- 1 [Elin Musk: Artificial intelligence might could lead to 'Woe, Woe!!!'](https://www.usatoday.com/story/tech/siliconvalley/2017/05/03/elon-musk-artificial-intelligence-tesla-power-itsky-ai-robot/1036246001/)
<https://www.usatoday.com/story/tech/siliconvalley/2017/05/03/elon-musk-artificial-intelligence-tesla-power-itsky-ai-robot/1036246001/>
(Users/mashkanar/Downloads/USA_Today/USAAToday/72f167908a6841c4457e447e4edf8b125eaf31619a7c4963c42-0779C5af4671.html)
CEO of Tesla, SpaceX outpicks about future over growth of artificial intelligence.
- 2 [Elin Musk: deep's self-driving much does model 3, guerrero power](https://www.usatoday.com/story/tech/2017/05/03/elon-musk-ai-deeps-self-driving-much-does-model-3-guerrero-power/1036246001/)
<https://www.usatoday.com/story/tech/2017/05/03/elon-musk-ai-deeps-self-driving-much-does-model-3-guerrero-power/1036246001/>
(Users/mashkanar/Downloads/USA_Today/USAAToday/97f167908a6841c4457e447e4edf8b125eaf31619a7c4963c42-0779C5af4671.html)
Prediction led/ for new Tesla model as well as place to help Puerto Rico with solar power have diverted the CEO.
- 3 [Tesla to start Model 3 electric car production, CEO Elin Musk says](https://www.usatoday.com/story/tech/2017/05/03/elon-musk-ai-deeps-self-driving-much-does-model-3-guerrero-power/1036246001/)
<https://www.usatoday.com/story/tech/2017/05/03/elon-musk-ai-deeps-self-driving-much-does-model-3-guerrero-power/1036246001/>
(Users/mashkanar/Downloads/USA_Today/USAAToday/97f167908a6841c4457e447e4edf8b125eaf31619a7c4963c42-0779C5af4671.html)
Tesla will begin production of its first mass-market electric vehicle, CEO Elin Musk said, meeting an ambitious goal that was widely questioned.
- 4 [Elin Musk: Tesla can help fix Puerto Rico's ruined electrical grid](https://www.usatoday.com/story/tech/2017/05/03/elon-musk-ai-deeps-self-driving-much-does-model-3-guerrero-power/1036246001/)
<https://www.usatoday.com/story/tech/2017/05/03/elon-musk-ai-deeps-self-driving-much-does-model-3-guerrero-power/1036246001/>
(Users/mashkanar/Downloads/USA_Today/USAAToday/97f167908a6841c4457e447e4edf8b125eaf31619a7c4963c42-0779C5af4671.html)
Elin Musk pledged to meet with Puerto Rico's governor to discuss how he could help rebuild the island's ruined electrical grid with renewable energy.
- 5 [Elin Musk: What we learned about Mars, moon base](https://www.usatoday.com/story/tech/2017/05/03/elon-musk-ai-deeps-self-driving-much-does-model-3-guerrero-power/1036246001/)
<https://www.usatoday.com/story/tech/2017/05/03/elon-musk-ai-deeps-self-driving-much-does-model-3-guerrero-power/1036246001/>
(Users/mashkanar/Downloads/USA_Today/USAAToday/97f167908a6841c4457e447e4edf8b125eaf31619a7c4963c42-0779C5af4671.html)
The SpaceX CEO who led the first mission to send back the new rocket system's physical size in form of a new system known as the BFR.
- 6 [Tesla eyes hurricane-resistant Caribbean, could shape power grids](https://www.usatoday.com/story/tech/2017/05/03/elon-musk-ai-deeps-self-driving-much-does-model-3-guerrero-power/1036246001/)
<https://www.usatoday.com/story/tech/2017/05/03/elon-musk-ai-deeps-self-driving-much-does-model-3-guerrero-power/1036246001/>
(Users/mashkanar/Downloads/USA_Today/USAAToday/97f167908a6841c4457e447e4edf8b125eaf31619a7c4963c42-0779C5af4671.html)
Tesla eyes more, another investment in the Caribbean could become a key player in shaping grids of the future.
- 7 [Elin Musk shows video of SpaceX rocket falls](https://www.usatoday.com/story/tech/2017/05/03/elon-musk-ai-deeps-self-driving-much-does-model-3-guerrero-power/1036246001/)
<https://www.usatoday.com/story/tech/2017/05/03/elon-musk-ai-deeps-self-driving-much-does-model-3-guerrero-power/1036246001/>
(Users/mashkanar/Downloads/USA_Today/USAAToday/97f167908a6841c4457e447e4edf8b125eaf31619a7c4963c42-0779C5af4671.html)
This is what happens when SpaceX rockets have trouble landing or taking off.
- 8 [Elin Musk believes Tesla can rebuild Puerto Rico's power grid](https://www.usatoday.com/story/tech/2017/05/03/elon-musk-ai-deeps-self-driving-much-does-model-3-guerrero-power/1036246001/)
<https://www.usatoday.com/story/tech/2017/05/03/elon-musk-ai-deeps-self-driving-much-does-model-3-guerrero-power/1036246001/>
(Users/mashkanar/Downloads/USA_Today/USAAToday/97f167908a6841c4457e447e4edf8b125eaf31619a7c4963c42-0779C5af4671.html)
Tesla founder Elin Musk believes he can rebuild Puerto Rico's power grid.
- 9 [Asteroid Hunt: Elin Musk asks 'Crazy' public about space](https://www.usatoday.com/story/tech/2017/05/03/elon-musk-ai-deeps-self-driving-much-does-model-3-guerrero-power/1036246001/)
<https://www.usatoday.com/story/tech/2017/05/03/elon-musk-ai-deeps-self-driving-much-does-model-3-guerrero-power/1036246001/>
(Users/mashkanar/Downloads/USA_Today/USAAToday/97f167908a6841c4457e447e4edf8b125eaf31619a7c4963c42-0779C5af4671.html)
The science and Tesla CEO, who have been spotted together, have made things go official.
- 10 [Tesla CEO Elin Musk: I don't hate Apple](https://www.usatoday.com/story/tech/2017/05/03/elon-musk-ai-deeps-self-driving-much-does-model-3-guerrero-power/1036246001/)
<https://www.usatoday.com/story/tech/2017/05/03/elon-musk-ai-deeps-self-driving-much-does-model-3-guerrero-power/1036246001/>
(Users/mashkanar/Downloads/USA_Today/USAAToday/97f167908a6841c4457e447e4edf8b125eaf31619a7c4963c42-0779C5af4671.html)
Let's face it: Tesla Motors CEO Elin Musk says he doesn't hate Apple. But given earlier comments in which he referred to the tech giant as a "Tesla graveyard," you've got to wonder: Scolding more like

Query Page for Elon Musk using Page Rank:

- Search:
- ☐ Site ☒ Page Rank
- Results 1 - 10 of 183:
- Travel News, Tips, and Guides - USA TODAY.com**
<https://www.usatoday.com/travel/>
(/Users/mashakumar/Downloads/USA_Today/USAToday/5e77320690e804e6b20c092ba75a8c7a324e9/7708-22eb8215732ac5a187.html)
The latest travel information, deals, guides and reviews from USA TODAY Travel.
 - Technology and Electronics Reviews - USA TODAY.com**
<https://www.usatoday.com/tech/>
(/Users/mashakumar/Downloads/USA_Today/USAToday/9079a3a07499b91a38e1a529e6c7c84e621c773a25113157c0a7a23ea13da1.html)
Power up with breaking news on personal technology, electronics, gaming and computers.
 - Car Reviews and News - USA TODAY.com**
<https://www.usatoday.com/story/cars/>
(/Users/mashakumar/Downloads/USA_Today/USAToday/5b6115c69a08c8a496c511f6e823a513393c73a75ed501a71a8615a21ac732.html)
Get ready to hit the open road with reviews on the newest autos and car news.
 - Small Business and Corporate News - USA TODAY.com**
<https://www.usatoday.com/story/business/>
(/Users/mashakumar/Downloads/USA_Today/USAToday/5c4d658c5e5a507ac6007699a4375c719403d6c1925d193ab6c53a6d8d4a1.html)
USA TODAY Money brings you the latest business news for corporations and small businesses.
 - Hurricane Maria**
<https://www.usatoday.com/story/hurricane-Maria/local/>
(/Users/mashakumar/Downloads/USA_Today/USAToday/771b91a12a048f941972a33c4b6c5c5437b29c94196c001b684c220953ad.html)
Hurricane Maria formed in the Atlantic Ocean, first reaching hurricane status on Sept. 27, 2017, and elevating to Category 5 status one day later.
 - NCAA Basketball - USA TODAY**
<https://www.usatoday.com/sports/ncaabasketball/>
(/Users/mashakumar/Downloads/USA_Today/USAToday/216420e3a6b9653b48504ac7ab77ac63d57a03a92712b6bb858a558baa87e.html)
Current NCAA Basketball - USA TODAY
 - NCAAF Soccer - NCAA Football - USA TODAY**
<https://www.usatoday.com/sports/ncaafsoccer/>
(/Users/mashakumar/Downloads/USA_Today/USAToday/058b8aac2e28e0fb01544f18362baa2b497a0e6bd54364a7c1870a6b3d11b.html)
Current NCAA Soccer - NCAA Football - USA TODAY
 - NCAAB Standings - NCAA Basketball - USA TODAY**
<https://www.usatoday.com/sports/ncaabstandings/>
(/Users/mashakumar/Downloads/USA_Today/USAToday/922441b8118002899a625a2a0b617a83a0a9773a6f718a723b993a7f72b.html)
Current NCAA Standings - NCAA Basketball - USA TODAY
 - NCAAF Soccer - NCAA Basketball - USA TODAY**
<https://www.usatoday.com/sports/ncaafsoccer/>
(/Users/mashakumar/Downloads/USA_Today/USAToday/00a266a50e09110152c839218407943e0a7ca27be9d60a5dc0354c1334.html)
Current NCAA Soccer - NCAA Basketball - USA TODAY
 - NCAAB Teams - NCAA Basketball - USA TODAY**
<https://www.usatoday.com/sports/ncaabteams/>
(/Users/mashakumar/Downloads/USA_Today/USAToday/99a074c032175d7e54b1872749e1a0b046b128c1320117a93a951f72a6f9e.html)
Current NCAA Teams - NCAA Basketball - USA TODAY

Screenshot of the actual webpage that opens when clicking on one of the result's link:



Results for Query:

Elon Musk:

Lucene	Page Rank
https://www.usatoday.com/story/tech/talkingtech/2017/09/05/elon-musk-artificial-intelligence-battle-most-likely-cause-wwiii/632362001/	https://www.usatoday.com/travel/
https://www.usatoday.com/story/tech/2017/10/06/elon-musk-delays-self-driving-truck-focus-model-3-puerto-rico-power/741050001/	https://www.usatoday.com/tech/
https://www.usatoday.com/story/money/cars/2017/07/03/tesla-model-3/447465001/	https://www.usatoday.com/money/cars/
https://www.usatoday.com/story/money/2017/10/06/elon-musk-tesla-can-help-fix-puerto-ricos-ruined-electrical-grid/738782001/	https://www.usatoday.com/money/business/
https://www.usatoday.com/story/tech/nation-now/2017/09/29/elon-musk-speech-what-we-learned/715703001/	https://www.usatoday.com/topic/Hurricane-Maria/local
https://www.usatoday.com/story/news/nation-now/2017/10/01/tesla-eyes-hurricane-ravaged-caribbean-could-shape-power-grids/721986001/	https://www.usatoday.com/sports/ncaab/scores/
https://www.usatoday.com/story/tech/talkingtech/2017/09/14/you-must-watch-elon-musk-video-rocket-fails/665166001/	https://www.usatoday.com/sports/ncaaf/sagarin/
https://www.usatoday.com/videos/money/2017/10/06/elon-musk-believes-tesla-can-rebuild-puerto-ricos-power-grid/106363188/	https://www.usatoday.com/sports/ncaab/standings/
https://www.usatoday.com/story/life/entertainthis/2017/04/24/amber-heard-elon-musk-dating-public-debut-instagram-posts/100834568/	https://www.usatoday.com/sports/ncaab/sagarin/
https://www.usatoday.com/story/driveon/2015/10/09/tesla-elon-musk-apple-hate/73689838/	https://www.usatoday.com/sports/ncaab/teams/

Star Wars:

Lucene	Page Rank
https://www.usatoday.com/story/life/movies/2015/11/03/star-wars-the-force-awakens-masks-lightsabers-amc-cinemark/75089340/	
https://www.usatoday.com/story/life/movies/2015/12/16/review-star-wars-the-force-awakens/77342318/	https://www.usatoday.com/money/
https://www.usatoday.com/story/life/movies/2015/12/14/harrison-ford-star-wars-the-force-awakens/77243366/	https://www.usatoday.com/policing/
https://www.usatoday.com/story/life/movies/2015/12/13/jj-abrams-star-wars-the-force-awakens/76911016/	https://www.usatoday.com
https://www.usatoday.com/story/life/entertainthis/2015/12/04/star-wars-need-to-know/76685854/	None
https://www.usatoday.com/story/life/entertainthis/2015/12/11/star-wars-movie-definitive-ranking/77137480/	https://www.usatoday.com/travel/
https://www.usatoday.com/story/life/movies/2017/09/12/j-j-abrams-return-star-wars-direct-episode-ix-replacing-colin-trevorrow/657203001/	https://www.usatoday.com/life/
https://www.usatoday.com/story/life/movies/2017/08/31/star-wars-five-best-ways-celebrate-the-last-jedi-force-friday-ii/618268001/	https://www.usatoday.com/tech/

Lucene	Page Rank
https://www.usatoday.com/story/money/business/small-business-central/2017/10/08/star-wars-last-jedi-trailer-gets-debut-monday-night-football/744286001/	https://www.usatoday.com/story/news/2013/01/09/corrections-clarifications/1821023/
https://www.usatoday.com/story/life/movies/2017/10/09/new-star-wars-last-jedi-trailer-hints-troubling-tie-between-rey-and-kylo-ren/748730001/	https://www.usatoday.com/topic/Las-Vegas-shooting/local

North Korea:

Lucene	Page Rank
https://www.usatoday.com/story/news/world/2017/06/17/three-americans-still-detained-north-korean-jails/102948008/	https://www.usatoday.com/opinion/
https://www.usatoday.com/story/news/2017/06/19/north-korean-treatment-western-prisoners-bizarre-not-always-physically-brutal/103022748/	https://www.usatoday.com/policing/
https://www.usatoday.com/story/news/world/2016/01/06/north-korea-hydrogen-bomb/78345074/	https://www.usatoday.com/news/
https://www.usatoday.com/story/news/world/2017/04/28/seoul-north-korea-test-fires-missile/101044820/	
https://www.usatoday.com/story/news/2017/07/04/north-korea-ballistic-missile-south-korea/449341001/	https://www.usatoday.com/story/news/2013/01/09/corrections-clarifications/1821023/
https://www.usatoday.com/story/news/world/2017/09/02/north-korea-nuclear-test-seismic-activity/629486001/	https://www.usatoday.com/policing/data-casualties
https://www.usatoday.com/story/news/world/2017/07/17/united-states-missile-defense-north-korea-threats/470177001/	https://www.usatoday.com/sports/ncaaf/
https://www.usatoday.com/story/news/world/2017/08/29/north-korea-fires-ballistic-missile-over-japan/611119001/	https://www.usatoday.com/olympics-rio-2016/

Lucene	Page Rank
https://www.usatoday.com/story/news/world/2017/08/08/report-north-korea-has-nuke-fits-inside-missile/549188001/	https://www.usatoday.com/policing/politics
https://www.usatoday.com/story/news/politics/2017/06/13/north-korea-releases-us-citizen-otto-warmbier-tillerson-says/102806222/	https://www.usatoday.com/news/world/

LA Dodgers

Lucene	Page Rank
https://www.usatoday.com/sports/mlb/salaries/2016/player/all/	
https://www.usatoday.com/sports/mlb/salaries/2015/player/all/	https://www.usatoday.com/life/
https://www.usatoday.com/sports/mlb/	https://www.usatoday.com/story/news/2013/01/09/corrections-clarifications/1821023/
	https://www.usatoday.com/olympics-rio-2016/
https://www.usatoday.com/sports/mlb/salaries/2012/player/all/	https://www.usatoday.com/sports/boxing/
https://www.usatoday.com/sports/mlb/salaries/2017/player/all/	https://www.usatoday.com/sports/horse/
https://www.usatoday.com/sports/mlb/salaries/	https://www.usatoday.com/sports/mlb/
https://www.usatoday.com/story/sports/mlb/2017/10/09/leading-off-watching-weather-in-boston-greinke-vs-dodgers/106458414/	https://www.usatoday.com/life/entertainthis/
https://www.usatoday.com/sports/mlb/salaries/2014/player/all/	https://www.usatoday.com/sports/ncaab/
https://www.usatoday.com/sports/mlb/salaries/2009/player/all/	https://www.usatoday.com/sports/nba/

Puerto Rico:

Lucene	Page Rank
https://www.usatoday.com/story/news/politics/2017/09/29/acting-homeland-security-director-calls-reach-hurricane-maria-a-good-news-story-mayor-san-juan-outra/716464001/	https://www.usatoday.com/opinion/
https://www.usatoday.com/story/news/nation-now/2017/10/04/torres-aid-mission-puerto-rico/734371001/	
https://www.usatoday.com/story/news/nation-now/2017/10/08/aid-makes-needy-hurricane-maria-survivors-puerto-rico/744978001/	https://www.usatoday.com/weather/
https://www.usatoday.com/story/news/politics/2017/09/29/trump-hurricane-damaged-puerto-rico-weve-never-seen-situation-like-this/716531001/	https://www.usatoday.com
https://www.usatoday.com/story/news/nation-now/2017/10/05/husband-wife-have-surprise-reunion-puerto-rico-airport/737828001/	https://www.usatoday.com/news/
https://www.usatoday.com/story/news/world/2017/09/20/puerto-rico-braces-direct-hit-hurricane-maria/684121001/	
https://www.usatoday.com/story/news/nation/2017/09/26/why-puerto-rico-faces-monumental-recovery-effort/703515001/	https://www.usatoday.com/tech/
https://www.usatoday.com/story/news/2017/09/24/puerto-rico-dam-holding-some-local-officials-say-threat-overblown/697748001/	https://www.usatoday.com/story/news/2013/01/09/corrections-clarifications/1821023/
https://www.usatoday.com/story/news/world/2017/09/21/puerto-ricans-hurricane-maria/688060001/	https://www.usatoday.com/tech/talkingtech/
https://www.usatoday.com/story/weather/hurricanes/2017/10/05/puerto-rico-clean-water/734813001/	https://www.usatoday.com/travel/roadwarriorvoices/

Hurricane Harvey:

Lucene	Page Rank
https://www.usatoday.com/story/opinion/2017/08/28/hurricane-harvey-shadowed-two-lessons-2005-editorials-debates/610503001/	https://www.usatoday.com/opinion/
https://www.usatoday.com/story/news/nation/2017/09/04/houston-open-business/631151001/	
https://www.usatoday.com/story/news/nation/2017/08/28/heartbreak-texas-harvey-drive-30-000-shelters-fema-says/607224001/	https://www.usatoday.com/washington/
https://www.usatoday.com/story/news/2017/08/27/cajun-navy-heads-texas-aid-rescues/606883001/	
https://www.usatoday.com/story/opinion/faith-in-america/2017/08/30/storm-the-church-bigger-than-joel-osteens-building/618795001/	https://www.usatoday.com/weather/
https://www.usatoday.com/story/news/nation-now/2017/08/28/harvey-nursing-home-residents-rescued-after-viral-photo-safe-warm-dry/610575001/	https://www.usatoday.com/money/
https://www.usatoday.com/story/news/nation-now/2017/08/27/harvey-nursing-home-residents-rescued-floodwaters-after-photo-goes-viral/606987001/	
https://www.usatoday.com/story/news/nation-now/2017/08/31/hurricane-harvey-devastated-texas-see-wreckage-drone/619985001/	https://www.usatoday.com/policing/
https://www.usatoday.com/story/news/nation/2017/08/30/joel-osteen-we-never-turned-away-hurricane-harvey-flooding-victims/615569001/	https://www.usatoday.com
http://www.usatoday.com/picture-gallery/news/nation/2017/08/23/tropical-depression-harvey-batters-texas/104899472/	None

iPhone X:

Lucene	Page Rank
https://www.usatoday.com/story/tech/reviewedcom/2017/09/12/should-you-upgrade-to-the-new-iphone-8-or-iphone-x/105546142/	https://www.usatoday.com/opinion/
https://www.usatoday.com/story/tech/2017/09/13/iphone-x-too-good-iphone-8-8-plus-may-soon-find-out/663345001/	
https://www.usatoday.com/story/tech/reviewedcom/2017/09/25/7-great-cases-that-will-work-with-the-new-iphone-8-and-8-plus/105985358/	https://www.usatoday.com/washington/
https://www.usatoday.com/story/tech/talkingtech/2017/09/11/apples-iphone-event-heres-how-watch/653065001/	
https://www.usatoday.com/story/tech/columnist/baig/2017/09/12/iphone-8-how-removing-home-button-change-your-iphone-experience/641540001/	https://www.usatoday.com/weather/
https://www.usatoday.com/story/tech/columnist/2017/09/09/iphone-8-how-sell-your-old-iphone-most-money/649373001/	https://www.usatoday.com/money/
http://www.usatoday.com/picture-gallery/tech/2017/06/23/iphone-8-evolution-of-the-iphone-over-the-years/103144056/	
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