

- First of all, we need to download solr-7.1.0 to run Solr server on top of Lucene. Then we use command `$ bin/solr start` to run Solr server on our laptop. After that, we have to create a new core and modify both `managed-schema` and `solrconfig.xml` for our specific analysis during indexing and querying. When the modification is done, we can start indexing the download web pages by the command `$ bin/post -c myexample -filetype html WSJ`.

Second, there are several client APIs available for Solr. We use `solr-php-client` and construct a php file that can format user's queries and send them to Solr server. In addition, re-format the results to present the expected output form on the web page, after Solr return the results to our php file.

Third, we use `jsoup` library to extract the outgoing links from all the download web pages. And using the mapping file provided with the web pages to filter out URLs that are not present in the mapping file.

Finally, we create a directed graph where vertices are web page files and detected edge between two files represent a link between the two vertices. Then load the web graph and use NetworkX library to compute the PageRank. We configure the pagerank function with `pagerank(G, alpha=0.85, personalization=None, max_iter=30, tol=1e-06, nstart=None, weight='weight', dangling=None)`.

- G: A NetworkX graph .
- alpha: The damping factor used to compute the PageRank value.
- max_itr: The “personalization vector” consisting of a dictionary with a key for every graph node and nonzero personalization value for each node.
- tol: Error tolerance used to check convergence in power method solver.
- nstart: Starting value of PageRank iteration for each node.
- weight: Edge data key to use as weight.
- dangling: The outedges to be assigned to any “dangling” nodes.

- PageRank has nothing to do with the content, it is more of a vote support by all the other pages on the Web. In other words, it shows how important a page is. Therefore, a page with a higher PageRank value means there are more other pages that have a link pointing to it.

- Screenshots of each query:

Elon Musk

The screenshot shows two consecutive web browser windows, both titled "localhost" and displaying search results for "Elon Musk". The top window shows a blank page with the search term entered in the address bar. The bottom window shows a list of 325 results, with the first few items detailed below.

Results 1 - 10 of 325:

- Title** Elon Musk Aims to Land Humans on Mars by Middle of Next Decade - WSJ
URL <https://www.wsj.com/articles/elon-musk-projects-first-private-trips-to-mars-by-middle-of-next-decade-1506675589>
ID /Users/ChrisChou/Sites/solr-php-client-master/solr-7.1.0/WSJ/WSJ/c6ed02839f2eb54ba057d215bc6a42df8c7a4c77e2512e246015fd93c9d5ee79.html
Description Billionaire entrepreneur sees super-powerful rockets and giant capsules being used for commercial contracts and deep space missions—and later, passengers.
- Title** The Truth Is Catching Up With Tesla - WSJ
URL <https://www.wsj.com/articles/elon-musk-has-an-awkward-problem-at-tesla-1507399374>
ID /Users/ChrisChou/Sites/solr-php-client-master/solr-7.1.0/WSJ/WSJ/1392a423e8627cdf1073c9f312e1fc02a41f14e6370178e50f046c8993340da.html
Description Tesla CEO Elon Musk is a visionary, which has endeared him to Wall Street analysts and investors alike, but there is a fine line between setting aggressive goals and misleading shareholders.
- Title** Elon Musk Has an Awkward Problem at Tesla: Employee Parking - WSJ
URL <https://www.wsj.com/articles/elon-musk-has-an-awkward-problem-at-tesla-employee-parking-1491926275>
ID /Users/ChrisChou/Sites/solr-php-client-master/solr-7.1.0/WSJ/WSJ/1392a423e8627cdf1073c9f312e1fc02a41f14e6370178e50f046c8993340da.html
Description With more employees competing for limited spaces, cars are often jammed diagonally in spots, propped up on curbs or left on gravelly medians. Some workers sleep in their cars to save spots.
- Title** Elon Musk Lays Out Worst-Case Scenario for AI Threat - WSJ
URL <https://www.wsj.com/articles/elon-musk-warns-nations-governors-of-looming-ai-threat-calls-for-regulations-1500154345>
ID /Users/ChrisChou/Sites/solr-php-client-master/solr-7.1.0/WSJ/WSJ/1490642627c699909092789ca428fd90ec8ac05210b92dd63c53ce3d2650dd39d.html
Description Artificial intelligence will threaten all human jobs and could even spark a war, Tesla and SpaceX Chief Executive Elon Musk told the National Governors Association, as he called for the creation of a regulatory body to guide development of the powerful technology.
- Title** Elon Musk Launches Neuralink to Connect Brains With Computers - WSJ
URL <https://www.wsj.com/articles/elon-musk-launches-neuralink-to-connect-brains-with-computers-1490642627>
ID /Users/ChrisChou/Sites/solr-php-client-master/solr-7.1.0/WSJ/WSJ/6001decc917f5f1b09e7aa21491d4227d24d5fd5a4e2f940516411556a88d4.html
Description Billionaire entrepreneur Elon Musk wants to merge computers with human brains to help people keep up with machines.
- Title** Elon Musk Aims to Land Humans on Mars by Middle of Next Decade - WSJ
URL <https://www.wsj.com/articles/elon-musk-projects-first-private-trips-to-mars-by-middle-of-next-decade-1506675589>
ID /Users/ChrisChou/Sites/solr-php-client-master/solr-7.1.0/WSJ/WSJ/a690f10cbff6ced0e889ab0551ea533ac0114a083df222cb69e44229a7558fc.html
Description Billionaire entrepreneur sees super-powerful rockets and giant capsules being used for commercial contracts and deep space missions—and later, passengers.
- Title** SpaceX Seeks Ambitious Launch Tempo Surpassing Current Rivals - WSJ
URL <https://www.wsj.com/articles/spacex-seeks-ambitious-launch-tempo-surpassing-current-rivals-1507209179>
ID /Users/ChrisChou/Sites/solr-php-client-master/solr-7.1.0/WSJ/WSJ/8727396db95365264dbcd43f09679545670bb29e03165035a576bb3f2af960.html
Description Elon Musk's SpaceX aims to have one of its rockets lift off roughly every two weeks on average through the end of 2018, exceeding any government or company launch schedule around the globe.
- Title** Elon Musk Teases a New York-to-D.C. Hyperloop - WSJ
URL <https://www.wsj.com/articles/musk-teases-a-new-york-to-d-c-hyperloop-in-a-tweet-1500571308>
ID /Users/ChrisChou/Sites/solr-php-client-master/solr-7.1.0/WSJ/WSJ/1e9108bc3477759dad62dde7c3096cc3c52f854ab50603ea2bb1205bbe37f67.html

localhost

Search: Elon Musk tf-idf page rank Submit

Results 1 - 10 of 325:

1. **Title** The Wall Street Journal & Breaking News, Business, Financial and Economic News, World News and Video
URL <https://www.wsj.com/>
ID /Users/ChrisChou/Sites/solr-php-client-master/solr-7.1.0/WSJ/WSJ/e7051ec3ea70a4f3c2a1c809383b73abf1b3ccc3f417eb06d4e1875ee73481.html
Description WSJ online coverage of breaking news and current headlines from the US and around the world. Top stories, photos, videos, detailed analysis and in-depth reporting.
2. **Title** WSJ Podcasts - The Wall Street Journal - Wsj.com
URL <https://www.wsj.com/podcasts>
ID /Users/ChrisChou/Sites/solr-php-client-master/solr-7.1.0/WSJ/WSJ/b1f56d3dd40e9893f1c57e1eb21fbccdb8b414fcda99ceb8cc529135260b3.html
Description Wall Street Journal Podcasts includes original programming on-demand as well as news and features from reporters across the globe.
3. **Title** WSJ Podcasts - The Wall Street Journal - Wsj.com
URL <https://www.wsj.com/podcasts?mod=video>
ID /Users/ChrisChou/Sites/solr-php-client-master/solr-7.1.0/WSJ/WSJ/10f950c171128fee2d1ccdf0ff6b1da76fd554ffa5b830c123c9e0dd88c2f5fc.html
Description Wall Street Journal Podcasts includes original programming on-demand as well as news and features from reporters across the globe.
4. **Title** WSJ Podcasts - The Wall Street Journal - Wsj.com
URL http://www.wsj.com/podcasts?mod=wsjlive_footer
ID /Users/ChrisChou/Sites/solr-php-client-master/solr-7.1.0/WSJ/WSJ/9f44d87db77d1ed5da856c32a65784c702bb0a0a9669b41838f820bdd3f39a.html
Description Wall Street Journal Podcasts includes original programming on-demand as well as news and features from reporters across the globe.
5. **Title** Stock Market & Finance News - Wall Street Journal
URL <https://www.wsj.com/news/markets>
ID /Users/ChrisChou/Sites/solr-php-client-master/solr-7.1.0/WSJ/WSJ/1436754c87093c6fe2a924579d6a79214ab014ab208fc6e69df1faad40e50a2b.html
Description Follow the latest Wall Street Journal news on stock markets, finance, banks, hedge funds and private equity, with quotes for stocks, stock indexes and ETFs.
6. **Title** Tech News & Analysis - Wall Street Journal
URL <https://www.wsj.com/news/technology>
ID /Users/ChrisChou/Sites/solr-php-client-master/solr-7.1.0/WSJ/WSJ/fd2e42c519c48fec0030e0d8d529815417571c03d4d93ad1d0bdb148b28bc803.html
Description Find the latest Wall Street Journal stories on tech companies, start-ups and personal technology, plus the latest reviews.
7. **Title** Book Reviews - Wsj.com
URL <http://www.wsj.com/public/page/book-reviews.html>
ID /Users/ChrisChou/Sites/solr-php-client-master/solr-7.1.0/WSJ/WSJ/4a52db80f8f41c16cc4d320935f3d51b3c502e3374df9aa176d5140496fa99d.html
Description Wall Street Journal reviews of books.
8. **Title** WSJ Podcasts - The Wall Street Journal - Wsj.com
URL <http://www.wsj.com/podcasts/>
ID /Users/ChrisChou/Sites/solr-php-client-master/solr-7.1.0/WSJ/WSJ/6acaee954f54d5c68a9ca5528f2b31ca0921196909af2754e4564e00c1e4d1d9.html
Description Wall Street Journal Podcasts includes original programming on-demand as well as news and features from reporters across the globe.

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Uber Board Settles Feud, Clearing Way for SoftBank Deal Uber is set to announce a multibillion-dollar investment led by SoftBank Group that will transform the governance of the world's most valuable startup and give the ride-hailing company a powerful ally in its battle against global rivals. 6 minutes ago

• Fare Hikes, Drops Don't Change Driver Pay

Where GOP Bills Make the Tax Code Simpler, and Where They Don't The Republican tax plans mark a step toward a simpler tax system, as the GOP has promised. Fewer

Surveillance Cameras Made by China Are Hanging All Over the U.S. Hikvision, a company 42%-owned by the Chinese government, sold devices that monitor U.S. Army base and Memphis streets. That has sparked concerns about cybersecurity. 53

Markets

U.S.	EUROPE	ASIA	FX	RATES	FUTURES
23422.21	2582.30	6750.94	1475.27	26704.08	1D 5D 3M 6M 1Y
-39.73	-2.32	0.89	0.26	-15.02	
-0.17%	-0.09%	0.01%	0.02%	-0.06%	

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Star Wars

The screenshot shows two stacked browser windows, both titled "localhost". The top window has a search bar containing "Star Wars" with radio buttons for "tf-idf" and "page rank", and a "Submit" button. The bottom window also has a similar search interface. Both windows show a list of search results, each with a numbered list item, a title, URL, ID, and a brief description.

Results 1 - 10 of 6462:

1. **Title** Disney to Include 'Star Wars', Marvel on New Streaming Service - WSJ
URL <https://www.wsj.com/articles/disney-to-include-star-wars-marvel-on-new-streaming-service-1504802450>
ID /Users/ChrisChou/Sites/solr-php-client-master/solr-7.1.0/WSJ/WSJ/d9a302c07f69d21f309288e8c289fac3a8ch7020e2bfe0862a8f2b3ced564fa.html
Description Disney intends to offer its Marvel and "Star Wars" properties through the subscription video service it is planning to launch in 2019, rather than renewing a deal with Netflix.
2. **Title** Media & Marketing News | Wall Street Journal
URL <https://www.wsj.com/news/types/media-marketing>
ID /Users/ChrisChou/Sites/solr-php-client-master/solr-7.1.0/WSJ/WSJ/eecd972d188ed59768202321ef67d3a1604d4241b6fd13d42b07e023e38a2b94.html
Description Discover the latest and breaking Media & Marketing news from The Wall Street Journal.
3. **Title** Consumer Technology News | Wall Street Journal
URL <https://www.wsj.com/news/types/consumer-technology>
ID /Users/ChrisChou/Sites/solr-php-client-master/solr-7.1.0/WSJ/WSJ/eedc972d188ed59768202321ef67d3a1604d4241b6fd13d42b07e023e38a2b94.html
Description Discover the latest and breaking Consumer Technology news from The Wall Street Journal.
4. **Title** Obituaries News | Wall Street Journal
URL <https://www.wsj.com/news/types/obituaries>
ID /Users/ChrisChou/Sites/solr-php-client-master/solr-7.1.0/WSJ/WSJ/f84c1ad3ffe6665393240d20e47369bc2f23c8f94064d6276af6b3f8f8e7ec9.html
Description Discover the latest and breaking Obituaries news from The Wall Street Journal.
5. **Title** CMO Today Newsletter News | Wall Street Journal
URL <https://www.wsj.com/news/types/cmo-today-newsletter>
ID /Users/ChrisChou/Sites/solr-php-client-master/solr-7.1.0/WSJ/WSJ/793cf8cce0ae520c399b9ecdd22bef97cb4d27469b6bf3fb41c507b15aa4458.html
Description Discover the latest and breaking CMO Today Newsletter news from The Wall Street Journal.
6. **Title** News Article Archive from June 10, 2017 - Wsj.com
URL <http://www.wsj.com/public/page/archive-2017-6-10.html>
ID /Users/ChrisChou/Sites/solr-php-client-master/solr-7.1.0/WSJ/WSJ/35036825307dc2da4bcb0fac7c8f1866af15ea010aa9562bdd983cc2709b1b99.html
Description Archive of top headlines and current news articles.
7. **Title** New York Culture - Arts, Theatre, Film, Music, Books, Food, Wine, Fashion, Nightlife - Wsj.com
URL <http://www.wsj.com/public/page/new-york-culture.html>
ID /Users/ChrisChou/Sites/solr-php-client-master/solr-7.1.0/WSJ/WSJ/1192cfa3d6e60ab754e8c046208bcd028a4f82ecd9b9dd81944fd8cf4d30cb7.html
Description
8. **Title** New York Culture - Arts, Theatre, Film, Music, Books, Food, Wine, Fashion, Nightlife - Wsj.com
URL <http://www.wsj.com/public/page/new-york-culture.html>
ID /Users/ChrisChou/Sites/solr-php-client-master/solr-7.1.0/WSJ/WSJ/cc322dc37eb976b9ce8e1e735c5dacc8fb577a37317f66722cc2297548994e.html
Description

localhost					
B	A	C	H	Solr Admin	PHP Solr Client Exam...
Search: Star Wars	<input type="radio"/> tf-idf	<input checked="" type="radio"/> page rank	<input type="radio"/> submit		
Results 1 - 10 of 6462:					
1.					
Title	Your Guided Tour to the New WSJ.com	URL	http://www.wsj.com/guidetour/	ID	/Users/ChrisChou/Sites/solr-php-client-master/solr-7.1.0/WSJ/WSJ/68e68648997a5d16141ee87357012fc0015c7e13e2cc593df94be28d8996ddf.html
Description	Take a guided tour of the latest updates and features of the new WSJ.com				
2.					
Title	The Wall Street Journal & Breaking News, Business, Financial and Economic News, World News and Video	URL	https://www.wsj.com/	ID	/Users/ChrisChou/Sites/solr-php-client-master/solr-7.1.0/WSJ/WSJ/e7051ec3ea70a4f3c2a1c809383b73abf1b3ccc3f417eb06d4e1875ee73481.html
Description	WSJ online coverage of breaking news and current headlines from the US and around the world. Top stories, photos, videos, detailed analysis and in-depth reporting.				
3.					
Title	News Article Archive - Wsj.com	URL	http://www.wsj.com/public/page/archive.html	ID	/Users/ChrisChou/Sites/solr-php-client-master/solr-7.1.0/WSJ/WSJ/b7a470413119d845eac0edc595b24e61349cf5577cc7d1f520d62271d53a8fbe.html
Description	Archive of top headlines and current news articles.				
4.					
Title	WSJ Video - The Wall Street Journal - Topics	URL	http://www.wsj.com/video/topics	ID	/Users/ChrisChou/Sites/solr-php-client-master/solr-7.1.0/WSJ/WSJ/17581d3c3d9b604c48d301cad2b13891578cce0349e9fbdf364d1789b4def03f.html
Description	Featured video topics from The Wall Street Journal.				
5.					
Title	Tech Videos	URL	http://www.wsj.com/video/browse/tech	ID	/Users/ChrisChou/Sites/solr-php-client-master/solr-7.1.0/WSJ/WSJ/9e0c451fd61667c17e93b89c9e424dd07faf2809da62377ef3aec24873553b6.html
Description	Browse the latest Tech videos from the Wall Street Journal, MarketWatch, and Barron's.				
6.					
Title	Inside Jim Belushi's \$38.5 Million Mansion	URL	http://www.wsj.com/video/inside-jim-belushi-385-million-mansion/2199DD05-8B71-497D-A44B-6B3A5177B24F.html	ID	/Users/ChrisChou/Sites/solr-php-client-master/solr-7.1.0/WSJ/WSJ/68472fda5b27874220845f6b104586198bc6b07ecc027d9b3288a7cb702a0b.html
Description	Comedian actor Jim Belushi takes WSJ on a personal tour of his six-bedroom, 11-bathroom, 14,200-square-foot home in Brentwood, Calif. The 'According to Jim' star will put the home on the market for				
7.					
Title	How Smartphones Hijack Our Minds - WSJ	URL	https://www.wsj.com/articles/how-smartphones-hijack-our-minds-1507307811	ID	/Users/ChrisChou/Sites/solr-php-client-master/solr-7.1.0/WSJ/WSJ/627c0f8e105c4b005ef9bb038a0017c33abdf1e5a8c3e46606b3a01386c7af1.html
Description	Research suggests that as the brain grows dependent on phone technology, the intellect weakens.				
8.					
Title	Stock Market & Finance News - Wall Street Journal	URL	https://www.wsj.com/news/markets	ID	/Users/ChrisChou/Sites/solr-php-client-master/solr-7.1.0/WSJ/WSJ/1436754c87093c6fe2d924579d6a79214ab8014ab208fc6e69df16ad40e50a2b.html
Description	Follow the latest Wall Street Journal news on stock markets, finance, banks, hedge funds and private equity, with quotes for stocks, stock indexes and ETFs.				

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Your Guided Tour to the New WSJ.com



I am delighted to welcome you to the new WSJ.com. Guided by subscriber feedback, we've worked to create an immersive digital experience that elevates the way we deliver the news. We have applied this thinking to our recent app releases, and the new WSJ.com is the culmination of those efforts.

The new site is much more visual in nature, showcasing our multimedia reporting, while improving our site performance in the process. We have also overhauled our market-data tool with a sleek new design that integrates data points critical to the modern investor. Most important, the

North Korea

localhost

Search: North Korea tf-idf page rank

Results 1 - 10 of 8182:

1. **Title** Irons Off the Fire: China's Import Ban Is Expected to Hinder North Korea - WSJ
URL <https://www.wsj.com/articles/irons-off-the-fire-chinas-import-ban-seen-hindering-north-korea-1502796984>
ID /Users/ChrisChou/Sites/solr-php-client-master/solr-7.1.0/WSJ/WSJ/105af7f0a63d2a3c7a94c3119a0099c27b1cef855fe42850652617af2b7a632.html
Description As China throws its weight behind new global economic sanctions against North Korea, a lively trade in coal—legal and through rampant smuggling—is likely to recede further. Shipments of seafood and iron ore will be curtailed for the first time.
2. **Title** China to Cut Oil Exports to North Korea - WSJ
URL <https://www.wsj.com/articles/china-to-limit-oil-supply-to-north-korea-1506140701>
ID /Users/ChrisChou/Sites/solr-php-client-master/solr-7.1.0/WSJ/WSJ/20ff494fe911b84c8e4d32b4b6c608bc86c3142ad97a5df2316167a8d236fe4b.html
Description China said it will reduce oil exports to North Korea in accordance with United Nations sanctions, squeezing an important source of economic support as Pyongyang pushes to build up its nuclear arsenal.
3. **Title** Trump Expands U.S. Sanctions on Dealings With North Korea - WSJ
URL <https://www.wsj.com/articles/donald-trump-says-u-s-plans-additional-sanctions-for-north-korea-1506005331>
ID /Users/ChrisChou/Sites/solr-php-client-master/solr-7.1.0/WSJ/WSJ/2e8c0a76d8e13c52ef744ea0631161391ec582d6fd39199e810cbed21ada6219.html
Description President Donald Trump signed an executive order he said will expand U.S. authority to target individuals, companies and financial institutions involved in business with Pyongyang.
4. **Title** Letter From North Korea: What Life Looks Like as Nuclear Crisis Mounts - WSJ
URL <https://www.wsj.com/articles/letter-from-north-korea-what-life-looks-like-as-nuclear-crisis-mounts-1506097544>
ID /Users/ChrisChou/Sites/solr-php-client-master/solr-7.1.0/WSJ/WSJ/31de9b72384248241e3989abf07e88bf5fb50c7b16819ccb69ac603fdf38.html
Description A tightly controlled government tour of Pyongyang featured plentiful talk from locals about not backing down to the U.S. The city was filled with symbols of the country's atomic and military ambitions, including rocket-shaped cakes and children playing with toy rocket launchers.
5. **Title** U.S. Has Options as Tension With North Korea Escalates - WSJ
URL <https://www.wsj.com/articles/u-s-has-options-as-tension-with-north-korea-escalates-1506354850>
ID /Users/ChrisChou/Sites/solr-php-client-master/solr-7.1.0/WSJ/WSJ/97c36088dd7c8bb068e624d1af6ea05fc1d51e4d99a5d7f86307a2a0ba8307b.html
Description It's hard to imagine rhetoric more stark—and dangerous—than the words flying back and forth between the leaders of the U.S. and North Korea. But experts say there are options to try to contain Pyongyang's nuclear advances, Gerald F. Seib writes.
6. **Title** North Korea Suspected of Hacking U.S.-South Korean War Plans - WSJ
URL <https://www.wsj.com/articles/north-korea-suspected-of-hacking-u-s-south-korean-war-plans-1507636641>
ID /Users/ChrisChou/Sites/solr-php-client-master/solr-7.1.0/WSJ/WSJ/959585f0619c5b4d633ad9f686bbe7045d5aa5eeb14d8f383cca3c896cf51f.html
Description North Korean hackers are believed to have stolen sensitive military secrets, including joint U.S.-South Korean plans detailing how to eliminate the Pyongyang leadership, during an attack last year on Seoul's defense data system.
7. **Title** Asia News | Wall Street Journal
URL <https://www.wsj.com/news/types/asia-news>
ID /Users/ChrisChou/Sites/solr-php-client-master/solr-7.1.0/WSJ/WSJ/a3b8b764502f1fbac75efcf110a6fcf55d2c313723381de837c481b21d3f5a1.html
Description Discover the latest and breaking Asia news from The Wall Street Journal.
8. **Title** Tensions Rise as U.S. Warplanes Skirt North Korean Coast, Pyongyang's Envoy Sharpens Threats - WSJ
URL <https://www.wsj.com/articles/tensions-rise-as-u-s-warplanes-skirt-north-korean-coast-pyongyangs-envoy-sharpens-threats-1507636642>
ID /Users/ChrisChou/Sites/solr-php-client-master/solr-7.1.0/WSJ/WSJ/959585f0619c5b4d633ad9f686bbe7045d5aa5eeb14d8f383cca3c896cf51f.html
Description Discover the latest and breaking Asia news from The Wall Street Journal.

localhost

Search: North Korea tf-idf page rank Submit

Results 1 - 10 of 8182:

1. **Title** WSJ Video - The Wall Street Journal - Wsj.com
URL <http://www.wsj.com/video>
ID /Users/ChrisChou/Sites/solr-php-client-master/solr-7.1.0/WSJ/WSJ/659dd58331f737fe927649d909a7255eff1d157212f3970ed79905e9c2959ad.html
Description Wall Street Journal Video includes original programming on-demand as well as news and features from reporters across the globe.
2. **Title** The Wall Street Journal & Breaking News, Business, Financial and Economic News, World News and Video
URL <https://www.wsj.com/>
ID /Users/ChrisChou/Sites/solr-php-client-master/solr-7.1.0/WSJ/WSJ/e7051ec3ea70a4f3c2a1c809383b73abf1b3ccc3f417ebc06d4e1875ee73481.html
Description WSJ online coverage of breaking news and current headlines from the US and around the world. Top stories, photos, videos, detailed analysis and in-depth reporting.
3. **Title** WSJ Podcasts - The Wall Street Journal - Wsj.com
URL <https://www.wsj.com/podcasts>
ID /Users/ChrisChou/Sites/solr-php-client-master/solr-7.1.0/WSJ/WSJ/b1f56d3dd40e9893f1c57e1eb21ffbcdb8b414ffcdca99ceb8ec529135260b3.html
Description Wall Street Journal Podcasts includes original programming on-demand as well as news and features from reporters across the globe.
4. **Title** Wildfires Continue to Rage Through California's Wine Country
URL <http://www.wsj.com/video/wildfires-continue-to-rage-through-california-wine-country/67C685FF-563C-4D0D-9E36-602523B8873A.html>
ID /Users/ChrisChou/Sites/solr-php-client-master/solr-7.1.0/WSJ/WSJ/02797131247ca247cefef560dd8f750a59523534f33477234f3c1d0be7b262.html
Description Wildfires that started Sunday night, killing almost a dozen people, continue to rage through California Tuesday, putting hundreds of thousands more homes at risk. Photo: AP
5. **Title** The Vocal Habit That Women Are Being Criticized for at Work
URL <http://www.wsj.com/video/the-vocal-habit-that-women-are-being-criticized-for-at-work/E97C7B5B-8C51-4472-955A-AA1A26468C31.html>
ID /Users/ChrisChou/Sites/solr-php-client-master/solr-7.1.0/WSJ/WSJ/99313a115b16517ef64cb659cb61bc0b669fa5a51ec2121229643b061dcd90.html
Description Both men and women use "vocal fry," the tendency to lower their voices at the end of words and phrases. A language scholar explores what causes the sound and why women are more likely to be criticized
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URL <http://www.wsj.com/video/japan-launches-new-geo-positioning-satellite/969CA88B-D8A6-4D85-B6D0-41CD8C2AC40A.html>
ID /Users/ChrisChou/Sites/solr-php-client-master/solr-7.1.0/WSJ/WSJ/806c690c50fb1b1f597eac4e7094167090707f11596dbbad59354c687c025fec.html
Description Japan's launch of the Michibiki 4 puts the country a step closer to having the most precise geo-positioning system in the world. The technology, scheduled to go online in April, could have strategic
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URL <http://www.wsj.com/video/browse>
ID /Users/ChrisChou/Sites/solr-php-client-master/solr-7.1.0/WSJ/WSJ/27322d1d2a47c2fa0487a44ade6cb9ec38d8fc358d4ab13d5d3b0eed9072edf6.html
Description Browse the latest Videos from the Wall Street Journal, MarketWatch, and Barron's.
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Description Jeff Wilke, Amazon CEO Worldwide Consumer, talks to The Wall Street Journal about how much sleep he gets each night, the one trait he looks for in a new hire, and what it's like being the

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CSCI 572 Solr Admin The Modern Cell Carrier: How We Got Here

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The Modern Cell Carrier: How We Got Here

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11/6/2017 3:24PM

The U.S. wireless industry is dominated by four major players: Verizon, AT&T, T-Mobile and Sprint. Now that just about everyone has a cellphone, each operator is looking for new ways to grow. But how did we go from the days of one giant landline monopoly to four competitive cell companies? Illustration: Shaumbe Wright/WSJ

LA Dodgers

localhost

Search: LA Dodgers tf-idf page rank

Results 1 - 10 of 13006:

1.

Title	The New Moneyball, With Lots and Lots of Money - WSJ
URL	https://www.wsj.com/articles/the-new-moneyball-with-lots-and-lots-of-money-1502279229
ID	/Users/ChrisChou/Sites/solr-php-client-master/solr-7.1.0/WSJ/WSJ/22784fbf054bf8122774a9d308b02388d1ebd4df4db14ff7efffb3e360d380.html
Description	The Los Angeles Dodgers have baseball's highest payroll but they haven't just used their financial muscle to load up on stars. They assembled a powerhouse by focusing on the fringes of the roster.
2.

Title	The Dodgers Seek to Turn the Tide Against the Diamondbacks - WSJ
URL	https://www.wsj.com/articles/the-dodgers-seek-to-turn-the-tide-against-the-diamondbacks-1507295408
ID	/Users/ChrisChou/Sites/solr-php-client-master/solr-7.1.0/WSJ/WSJ/629f44308805b090d98ec6b42fbfa032135ad89d5b5a1194ab9ef3975daa320.html
Description	The Arizona Diamondbacks outscored the Los Angeles Dodgers by a combined total of 99-71 this season and has won the last six games the two teams have played.
3.

Title	Will Dodgers Be All-Time Greats or All-Time Goats? - WSJ
URL	https://www.wsj.com/articles/will-dodgers-be-all-time-greats-or-all-time-goats-1504534706
ID	/Users/ChrisChou/Sites/solr-php-client-master/solr-7.1.0/WSJ/WSJ/1629f44308805b090d98ec6b42fbfa032135ad89d5b5a1194ab9ef3975daa320.html
Description	The 2001 Seattle Mariners are a cautionary tale for how a magical regular season can turn sour in baseball's unpredictable playoffs.
4.

Title	How the Dodgers Changed L.A. - WSJ
URL	https://www.wsj.com/articles/how-the-dodgers-changed-l-a-1493939209
ID	/Users/ChrisChou/Sites/solr-php-client-master/solr-7.1.0/WSJ/WSJ/598a55054b55533904a6a489604c15f9af40f74355c76fa3ce0f6ceee5ee7a0.html
Description	Robert Moses said a firm 'no' to a new Brooklyn ballpark for the Dodgers. Los Angeles gave the team a home where a barrio once stood. John Buntin reviews "City of Dreams: Dodger Stadium and the Birth of Modern Los Angeles" by Jerald Podair.
5.

Title	Dodgers, Yankees Make Big Moves for Pitching - WSJ
URL	https://www.wsj.com/articles/dodgers-yankees-make-big-moves-for-pitching-1501540839
ID	/Users/ChrisChou/Sites/solr-php-client-master/solr-7.1.0/WSJ/WSJ/430112c3ea042f821a7dbc1f6a74fb79bd53987c48d2aa881a3e01e0fb562a6.html
Description	The Los Angeles Dodgers acquired pitcher Yu Darvish from the Texas Rangers, while the New York Yankees traded for Oakland A's pitcher Sonny Gray.
6.

Title	Unraveling Clayton Kershaw's 'Playoff Problem' - WSJ
URL	https://www.wsj.com/articles/unraveling-clayton-kershaws-playoff-problem-1507482724
ID	/Users/ChrisChou/Sites/solr-php-client-master/solr-7.1.0/WSJ/WSJ/7dab70599a392633b83f4c99c3550e8e92335316ef2873694ce48e06b09abe.html
Description	Dodgers ace Clayton Kershaw has yet to put together an October that matches his regular-season numbers, but one reason for his postseason struggles might be that he's often left in the game too long.
7.

Title	The Dodgers Seek to Turn the Tide Against the Diamondbacks - WSJ
URL	https://www.wsj.com/articles/the-dodgers-seek-to-turn-the-tide-against-the-diamondbacks-1507295408
ID	/Users/ChrisChou/Sites/solr-php-client-master/solr-7.1.0/WSJ/WSJ/f02a024814a673d068b383500067b83f578379da97976300b9976e5c36c8aa6.html
Description	The Arizona Diamondbacks outscored the Los Angeles Dodgers by a combined total of 99-71 this season and has won the last six games the two teams have played.
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Title	Unraveling Clayton Kershaw's 'Playoff Problem' - WSJ
URL	https://www.wsj.com/articles/unraveling-clayton-kershaws-playoff-problem-1507482724
ID	/Users/ChrisChou/Sites/solr-php-client-master/solr-7.1.0/WSJ/WSJ/7bda7255a9219b8524b2912d506807c39bd18b426cf08b08e885b0b89f6f1fd.html

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1. **Title** The Wall Street Journal & Breaking News, Business, Financial and Economic News, World News and Video
URL <https://www.wsj.com/>
ID /Users/ChrisChou/Sites/solr-php-client-master/solr-7.1.0/WSJ/WSJ/e7051ec3ea70a4f3c2a1c809383b73abf1b3cccc3f417eb06d4e1875ee73481.html
Description WSJ online coverage of breaking news and current headlines from the US and around the world. Top stories, photos, videos, detailed analysis and in-depth reporting.
2. **Title** Wall Street Journal Reporter Sentenced to Prison by Turkish Court - WSJ
URL <https://www.wsj.com/articles/wall-street-journal-reporter-sentenced-to-prison-by-turkish-court-1507663509>
ID /Users/ChrisChou/Sites/solr-php-client-master/solr-7.1.0/WSJ/WSJ/e0a4c0fd0e7c85fabf864c4aa66a927f17a3832df3787d760ee80eb1744986d1.html
Description A Turkish court sentenced Journal reporter Ayla Albayrak to two years and one month in prison Tuesday, declaring her guilty of engaging in terrorist propaganda in support of a banned Kurdish separatist organization through one of her articles.
3. **Title** How Smartphones Hijack Our Minds - WSJ
URL <https://www.wsj.com/articles/how-smartphones-hijack-our-minds-1507307811>
ID /Users/ChrisChou/Sites/solr-php-client-master/solr-7.1.0/WSJ/WSJ/627c0f8e105c4b005ef9bb038a0017c33abdf1e5a8e3e46606b3a01386c7a61.html
Description Research suggests that as the brain grows dependent on phone technology, the intellect weakens.
4. **Title** McDonald's Has a McSpicy Problem: An Indian Partner Has Gone Rogue - WSJ
URL <https://www.wsj.com/articles/mcdonalds-has-a-mcspicy-problem-its-indian-partner-has-gone-rogue-1507563081>
ID /Users/ChrisChou/Sites/solr-php-client-master/solr-7.1.0/WSJ/WSJ/c5b7c318eefc8bd6e8ee8205c82a2b1fb8c83d91f2b1901bf72739c695ec4.html
Description After the restaurant giant tried to pull out of about 150 restaurants, a defiant franchisee vows to keep serving. 'Our taste buds are settled on that flavor.'
5. **Title** Commercial Real Estate - News, Sales, Property Development, Market Data - Wsj.com
URL <http://www.wsj.com/public/page/news-real-estate-commercial.html>
ID /Users/ChrisChou/Sites/solr-php-client-master/solr-7.1.0/WSJ/WSJ/2d85b7c40dbfa6ae2d5e04270e532ab9129226cc745d76762bcfe6b37763306.html
Description Wall Street Journal commercial real estate market news & analysis on development, construction & building, property investment, sales & leasing.
6. **Title** Career Advice, Find a Job & Salary Trends - Wall Street Journal - Wsj.com
URL <http://www.wsj.com/public/page/news-career-jobs.html>
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Description Wall Street Journal news, features and trends on managing your career for growth, advancement or change. Next steps, second acts and advice on managing your job.
7. **Title** Book Reviews - Wsj.com
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Description Wall Street Journal reviews of books.
8. **Title** Leisure & Arts - Wsj.com
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WORLD

Wall Street Journal Reporter Sentenced to Prison by Turkish Court

Conviction on terrorist propaganda charges highlights government's increased targeting of journalists; reporter to appeal decision

By Thomas Grove 186 COMMENTS

Updated Oct. 11, 2017 4:39 p.m. ET

A Turkish court sentenced Wall Street Journal reporter Ayla Albayrak to two years and one month in prison Tuesday, declaring her guilty of engaging in terrorist propaganda in support of a banned

Puerto Rico

The screenshot shows two consecutive web browser windows from 'localhost' with the same search parameters: 'Search: Puerto Rico', 'tf-idf', and 'page rank'. The first window displays a blank page with no results. The second window shows the search results for 'Puerto Rico'.

Results 1 - 10 of 3785:

1. **Title** In Puerto Rico, Health Concerns Grow Amid Lack of Clean Water, Medical Care - WSJ
URL <https://www.wsj.com/articles/in-puerto-rico-health-concerns-grow-amid-lack-of-clean-water-medical-care-1507137646>
ID /Users/ChrisChou/Sites/solr-php-client-master/solr-7.1.0/WSJ/WSJ/c24dcba0ff1fa5ed3a15tb25594514930d7051b4a4d5be745ca455dde9dea621.html
Description In the aftermath of Hurricane Maria, many Puerto Ricans are grappling with growing health concerns due to a lack of reliable access to medical care, supplies and clean water.
2. **Title** Puerto Rico Bonds Slide as Trump Says 'Goodbye' to Territory's Debt - WSJ
URL <https://www.wsj.com/articles/puerto-rico-bonds-slide-as-trump-says-goodbye-to-territorys-debt-1507126128>
ID /Users/ChrisChou/Sites/solr-php-client-master/solr-7.1.0/WSJ/WSJ/b459fa307b38fc8fc7b2440990e0c13978d6a11358a83595c771aa9342377ba0a5.html
Description Puerto Rico bond prices fell after President Trump said the U.S. territory's \$7 billion debt load may get wiped out to help the island recover from Hurricane Maria.
3. **Title** AlixPartners Quits as Adviser to Puerto Rico Utility - WSJ
URL <https://www.wsj.com/articles/alixpartners-quits-as-adviser-to-puerto-rico-utility-1486597369>
ID /Users/ChrisChou/Sites/solr-php-client-master/solr-7.1.0/WSJ/WSJ/b248f2766202aa438869f70578bafea6333cf54bbef89825fdb05e3fb6c1034b.html
Description AlixPartners LLP terminated its role as restructuring adviser to Puerto Rico's public electricity utility known as Prepa, potentially adding to the island's struggles to fix its finances and right its economy.
4. **Title** Puerto Rico Bond Prices Fall as Hurricanes Add to Island's Troubles - WSJ
URL <https://www.wsj.com/articles/puerto-rico-bond-prices-fall-as-hurricanes-add-to-islands-troubles-1505944063>
ID /Users/ChrisChou/Sites/solr-php-client-master/solr-7.1.0/WSJ/WSJ/b96750c4da57794dca84416af6c16be187260daab08ee628445ca80c59fffa.html
Description It could take weeks to determine the full extent of the hurricane damage to Puerto Rico, but bondholders are already anticipating losses. Prices have fallen as much as 4% since Monday on some bonds.
5. **Title** Hurricane Maria Slams Into Puerto Rico - WSJ
URL <https://www.wsj.com/articles/hurricane-maria-slams-into-puerto-rico-1505907575>
ID /Users/ChrisChou/Sites/solr-php-client-master/solr-7.1.0/WSJ/WSJ/15dcef103b204ca7c81d6ac4c1b2aae244c52e146e577ef4bf50f0f07c7c6f.html
Description Hurricane Maria slammed into Puerto Rico early Wednesday pounding the island with huge waves, massive rainfalls, and lashing winds as the storm buzz-sawed its way through the mountainous island.
6. **Title** Rebuild Strong, Not Green, in Puerto Rico - WSJ
URL <https://www.wsj.com/articles/rebuild-strong-not-green-in-puerto-rico-1507244226>
ID /Users/ChrisChou/Sites/solr-php-client-master/solr-7.1.0/WSJ/WSJ/8d0bd9a7703093b648c79fe10067c118735c2dcf6189083cbdae5f3e500b8cc8.html
Description Sell the bankrupt power authority and harden the grid.
7. **Title** Puerto Rico's Power Woes Are Decades in the Making - WSJ
URL <https://www.wsj.com/articles/puerto-ricos-power-woes-are-decades-in-the-making-1506176140>
ID /Users/ChrisChou/Sites/solr-php-client-master/solr-7.1.0/WSJ/WSJ/99fc638e182df92d14acf4798746fad3497d1f1206e87adff003a8431de70e31.html
Description As residents of Puerto Rico grapple with power outages across all of the island, the task of turning the lights back on falls to an electrical utility beset by rickety infrastructure, workforce reductions and deep financial woes.
8. **Title** Baxter Says Saline Shipments Disrupted in Hurricane-Wrecked Puerto Rico - WSJ
URL <https://www.wsj.com/articles/baxter-says-saline-shipments-disrupted-in-hurricane-wrecked-puerto-rico-1506545326>
ID /Users/ChrisChou/Sites/solr-php-client-master/solr-7.1.0/WSJ/WSJ/dac700786fd1a882cc9ffd4779275042683d99c48e6d99d3eb58dfa41197ace.html
Description Baxter International says it has lost "multiple production days" in hurricane-wrecked Puerto Rico that will delay its ability to restore shipments of two products that were already in short supply on the U.S. mainland.

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Description WSJ online coverage of breaking news and current headlines from the US and around the world. Top stories, photos, videos, detailed analysis and in-depth reporting.
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Description Wildfires that started Sunday night, killing almost a dozen people, continue to rage through California Tuesday, putting hundreds of thousands more homes at risk. Photo: AP
5. **Title** The Vocal Habit That Women Are Being Criticized for at Work
URL <http://www.wsj.com/video/the-vocal-habit-that-women-are-being-criticized-for-at-work/E97C7B5B-8C51-4472-955A-AA1A2646C831.html>
ID /Users/ChrisChou/Sites/solr-php-client-master/solr-7.1.0/WSJ/WSJ/39313a115b16517ef64e659cb61bc0b6695afa51ec2121229643b0601ddd90.html
Description Both men and women use "vocal fry," the tendency to lower their voices at the end of words and phrases. A language scholar explores what causes the sound and why women are more likely to be criticized
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ID /Users/ChrisChou/Sites/solr-php-client-master/solr-7.1.0/WSJ/WSJ/806c690c50cf1b1f597eac4e7094167090707f11596dbbad59354c687c025fec.html
Description Japan's launch of the Michibiki 4 puts the country a step closer to having the most precise geo-positioning system in the world. The technology, scheduled to go online in April, could have strategic
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Description Jeff Wilke, Amazon CEO Worldwide Consumer, talks to The Wall Street Journal about how much sleep he gets each night, the one trait he looks for in a new hire, and what it's like being the

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Wildfires Continue to Rage Through California's Wine Country

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WILDFIRES CONTINUE TO RAGE THROUGH CALIFORNIA'S WINE COUNTRY

Wildfires Continue to Rage Through California's Wine Country

10/10/2017 5:45PM

Wildfires have killed more than a dozen people in Northern California since they started late Sunday. Blazes continued to rage through the area on Tuesday, putting hundreds of thousands more homes at risk. Photo: AP

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Description Hurricane Harvey slammed into Texas as a powerful Category 4 hurricane, with intense rain and winds of more than 100 miles an hour as it struck land. It had weakened to a Category 1 storm by 5 a.m. and to a tropical storm by mid-afternoon.
2. **Title** Hurricane Harvey: One Week After Landfall - WSJ
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Description One week after Harvey landed into southeast Texas as a Category 4 hurricane, some residents have returned to their homes to clean up while rescuers search for people trapped in flooded homes.
3. **Title** Hurricane Harvey Threatens Largest Flood Insurer: The Government - WSJ
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Description Hurricane Harvey could inundate the National Flood Insurance Program with billions in new claims shortly before the plan is scheduled to expire on Sept. 30 with just \$5.8 billion left it can borrow from the Treasury to meet obligations.
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Description Water is subsiding in flooded Houston neighborhoods, but Texans returning to damaged homes face plenty of obstacles, including the threat of toxic pollutants in the air and drinking water.
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Description Small-business owners struggling to recover from this year's series of brutal hurricanes have criticized federal-disaster aid as insufficient, and leaders in Congress are planning a full review.
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Description Americans don't like being forced to buy flood coverage, but it may be the best way to protect the booming economies most at risk.
7. **Title** Hurricane Harvey Slams Texas With Devastating Force - WSJ
URL <https://www.wsj.com/articles/harvey-slams-texas-with-devastating-force-1503750047>
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Description Hurricane Harvey slammed into Texas as a powerful Category 4 hurricane, with intense rain and winds of more than 100 miles an hour as it struck land. It had weakened to a Category 1 storm by 5 a.m. and to a tropical storm by mid-afternoon.
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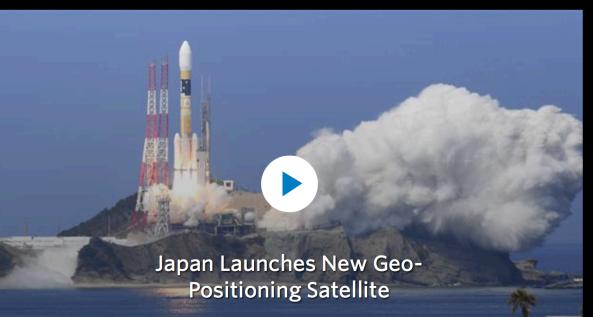
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Japan's launch of the Michibiki 4 puts the country a step closer to having the most precise geo-positioning system in the world. The technology, scheduled to go online in April, could have strategic significance in the event of military conflict with North Korea, as well as huge commercial potential. Photo: Reuters

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Description Where does the shiny new iPhone 8 fit in when there's a flagship iPhone X and cheaper iPhone 7 models for sale?
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Description The best thing about the iPhone 8 is that it is entirely avoidable. If you need to have the latest and greatest, wait for the iPhone X. And if you don't, you can save a chunk of cheese by buying a nearly-as-good iPhone 7.
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Description Get ready for your closeup, because Apple's new flagship iPhone X is all about the cameras, writes Geoffrey A. Fowler.
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Description When the Apple anniversary iPhone and the Samsung Galaxy Note 8 hit stores this month, they are expected to start around \$1,000—a price that was once unthinkable but is now seen as increasingly logical.
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ID /Users/ChrisChou/Sites/solr-php-client-master/solr-7.1.0/WSJ/WSJ/3a3c7ccfd62f9906f720d0f0f5249ce93212040ece3b11417097a9dc26974.html
Description Jeff Wilke, Amazon CEO Worldwide Consumer, talks to The Wall Street Journal about how much sleep he gets each night, the one trait he looks for in a new hire, and what it's like being the
8. **Title** Why the Trump-Corker Feud Matters
URL <http://www.wsj.com/video/why-the-trump-corker-feud-matters/537D8422-D7CF-4F08-91E4-59E74FF40F7.html>
ID /Users/ChrisChou/Sites/solr-php-client-master/solr-7.1.0/WSJ/WSJ/6a0016972d35aa9af195021a64c3f0120ee45a250d1f6c57d53cf31b85f3036.html
Description President Donald Trump and Sen. Bob Corker fought a remarkable war of words over the weekend. WSJ's Gerald F. Seib explains why this battle is a big deal for Iran policy and GOP hopes for a tax

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- Overlap graph:

There is no overlap between the two ranking strategies for all queries.