

### Steps to complete the assignment

1. Download solr-6.5.0 and start its service using **bin/solr start**
2. Create core using **bin/solr create\_core -c nytimes**
3. Post all the files so that solr can index the same using **bin/post -c nytimes <path of the downloaded files>**
4. Change the solrconfig.xml in <corename>/data folder to uncomment name="df" parameter to query the field \_text\_
5. Now run the java code to generate the edgeList.txt file (requires jsoup jar)
6. Once the edgeList is generated, run the python file which uses networkx to generate graph object and then pass this object to pagerank function with the following parameters
  - a. **alpha=0.85, personalization=None, max\_iter=30, tol=1e-06, nstart=None, weight='weight', dangling=None**
7. This will generate the external\_PageRankFile.txt which includes the pagerank score for each html file
8. Place this pageRank file into <corename>/data folder
9. Change the managed-schema and solrconfig.xml to incorporate changes for pagerank indexing
10. Once done, reload the core from solr admin page
11. Now you can query pagerank indexed values by typing pageRank desc in sort column.
12. Now for the assignment, create a php page with a text box for search and radio button for index option (Lucene and PageRank)
13. Download the code from git to connect php and solr service and change the additionalParameters array to incorporate sort value in case of pageRank.
14. Host this on apache by placing the php file in /var/www/html/ and can be accessed using **localhost/solrPage.php**

### PageRank Explanation

Some of the queries will have higher pageRank even though the search words do not exist in the document. This is because pageRank works on the principle of incoming URLs. i.e If the number of URLs pointing to a page is more, then this indicates that this page is of more importance as many pages are pointing to this particular page and hence assigns a higher score to this page rather than actual page having more key words of the entered search

Flow of the assignment search page:

You go to the url using the following address: localhost/solrPage.php

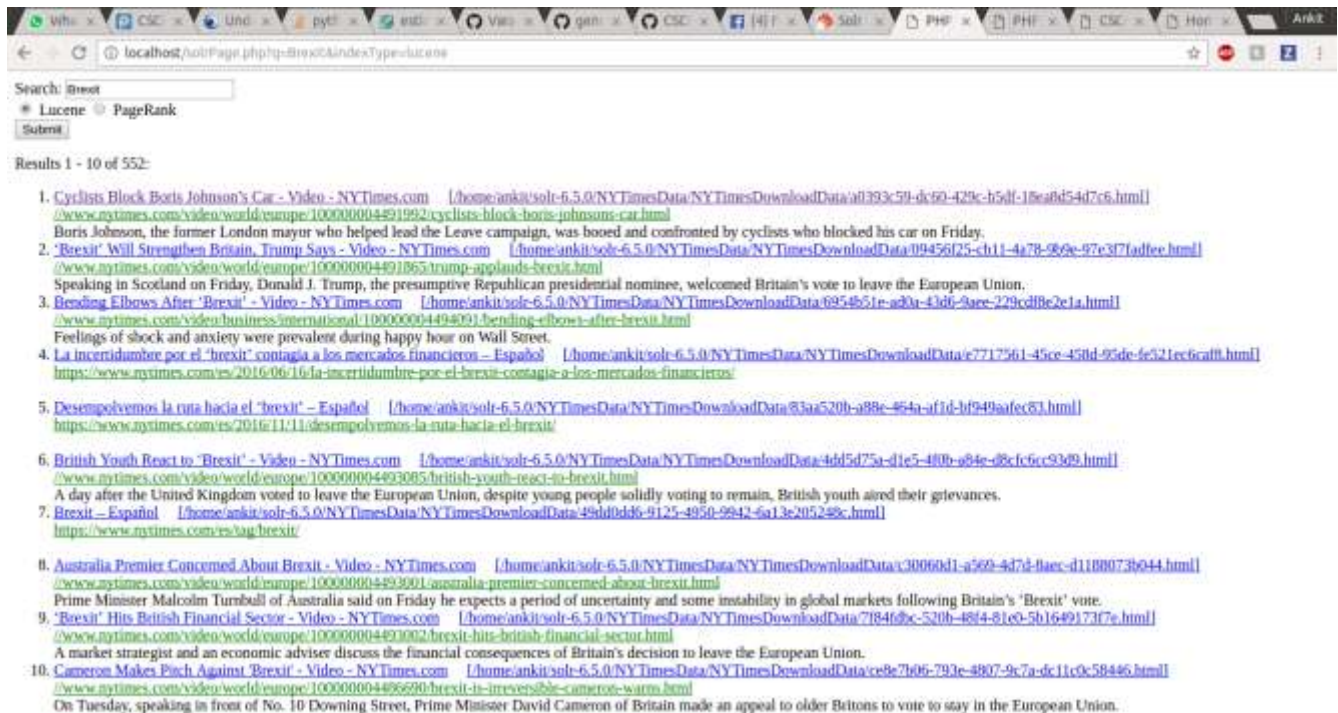
This provides you with a form with one search textbox and two radio button options.

1. One for Solr's default indexing (Lucene)
2. One for pageRank indexing (PageRank)

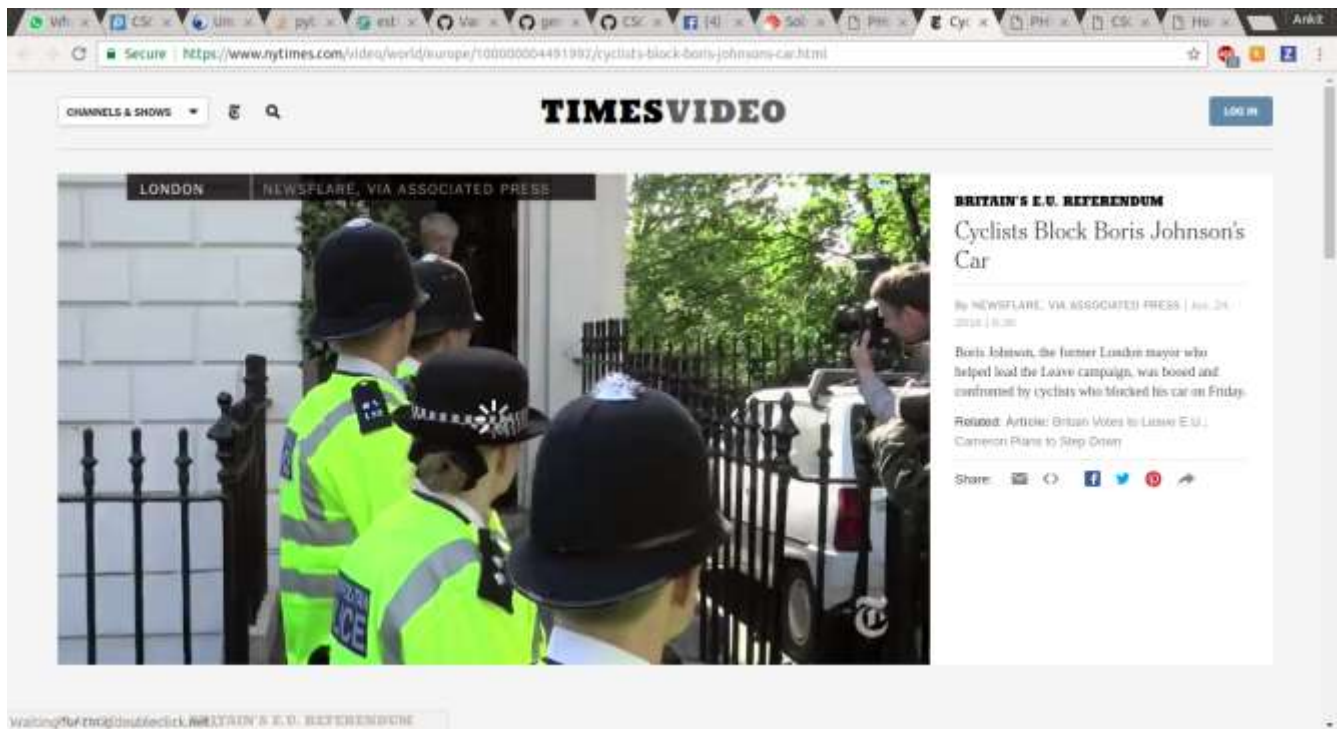
On clicking search, it will provide you with the top 10 results indexed according to the option of indexing you choose

The results include the title, ID, URL and description of the pages returned

Eg:  
QUERY1 Brexit  
Lucene



On clicking the first URL, the following web page opens



## PageRank

localhost/solrPage.php?directIndexType=pageRank+desc

Search:

Lucene PageRank

Submit

Results 1 - 10 of 552:

1. Times Video - NYTimes.com [home/ankit/solr-6.5.0/NYTimesData/NYTimesDownloadData/7906f3b-2a14-4094-baf3-66772088348.html]  
[www.nytimes.com/video]  
Whether it's reporting on conflicts abroad and political divisions at home, or covering the latest style trends and scientific developments, Times Video journalists provide a revealing and unforgettable view of the world.
2. Neil Gaiman explora el mundo de Odín en su nuevo libro de mitología - Español [home/ankit/solr-6.5.0/NYTimesData/NYTimesDownloadData/030b7e7e-42cc-4e93-5366-de9bd8a3ac18.html]  
[https://www.nytimes.com/es/2017/02/15/neil-gaiman-explora-el-mundo-de-odin-en-su-nuevo-libro-de-mitologia/]
3. Russia Reacts to Flynn Resignation - Video - NYTimes.com [home/ankit/solr-6.5.0/NYTimesData/NYTimesDownloadData/283c690e-0578-44b2-b308-bf8332c31709.html]  
[www.nytimes.com/video/world/europe/100000004933140/messia-reacts-to-flynn-resignation.html]  
Leonid Slutsky, the Foreign Relations Committee chairman in the Russian State Duma, said Tuesday that he sees the accusations surrounding Michael T. Flynn's resignation as an attack on Russia and that relations with the United States continue to be on thin ice.
4. Mattis: Russia's Actions are 'Destabilizing' - Video - NYTimes.com [home/ankit/solr-6.5.0/NYTimesData/NYTimesDownloadData/0a64d8f-10eb-4fd1-92d4-7c02731f592d.html]  
[www.nytimes.com/video/world/europe/100000004936876/mattis-russias-actions-are-destabilizing.html]  
In a speech to NATO defense ministers, the Pentagon chief pointed to Russia and terrorism coming from the Middle East and North Africa as threats to the alliance.
5. Europa - Español [home/ankit/solr-6.5.0/NYTimesData/NYTimesDownloadData/beda1406-197b-4814-a938-8f9457088226.html]  
[https://www.nytimes.com/es/collection/europa/]
6. Blair: People Voted Without Knowing the Terms of 'Brexit' - Video - NYTimes.com [home/ankit/solr-6.5.0/NYTimesData/NYTimesDownloadData/de837ff4-bab0-452f-bc20-feb5ec0632a.html]  
[www.nytimes.com/video/world/europe/100000004939290/blair-people-voted-without-knowing-the-terms-of-brexit.html]  
A former prime minister of Britain, Tony Blair, urged people on Friday to "rise up" and oppose the pending departure from the European Union, saying that voters had a "right to change their mind."
7. International Video Channel - NYTimes.com [home/ankit/solr-6.5.0/NYTimesData/NYTimesDownloadData/35922c29-a886-4890-b567-21804d26173.html]  
[http://www.nytimes.com/video/world]  
International video coverage from The New York Times.
8. Pope's Plea: Pray for Myanmar Muslims - Video - NYTimes.com [home/ankit/solr-6.5.0/NYTimesData/NYTimesDownloadData/daf87f6c-1f14-4de3-a170-322a578c7d40.html]  
[www.nytimes.com/video/world/europe/100000004919587/popes-plea-pray-for-myanmar-muslims.html]  
During his weekly audience at the Vatican on Wednesday, Pope Francis criticized Myanmar's treatment of the Muslim Rohingya minority group.
9. Haley Says U.S. Backs Two-State Solution - Video - NYTimes.com [home/ankit/solr-6.5.0/NYTimesData/NYTimesDownloadData/f2404e8-4969-4727-8c20-9c8a9e9aba94.html]  
[www.nytimes.com/video/world/100000004917714/haley-says-us-backs-two-state-solution.html]  
Nikki R. Haley, United States ambassador to the United Nations, said on Thursday that the administration supports a two-state solution in the Middle East.
10. Ecuador elige al sucesor de Rafael Correa después de una década - Español [home/ankit/solr-6.5.0/NYTimesData/NYTimesDownloadData/997541bc-a4b3-4afa-9e13-7e45c965c3b8.html]  
[https://www.nytimes.com/es/2017/02/13/ecuador-elige-al-sucesor-de-rafael-correa-despues-de-una-decada/]

Secure https://www.nytimes.com/video

CHANNELS & SHOWS

**TIMESVIDEO**

TRUMP'S NEW GOVERNMENT | 1:44

How Neil Gorsuch Interprets the Constitu...

<https://www.nytimes.com/video/us/politics/100000005009900/originalism-constitution-gorsuch-supreme-court.html?module=tv-carousel&action=click&agType=Multimedia&contentPlacement=1>

Overlap=0



## QUERY 2 NASDAQ Lucene

Search:   ☒ Lucene ☐ PageRank

Results 1 - 10 of 170:

1. Facebook's Censorship Tool - Video - NYTimes.com [home/ankit/solr-6.5.0/NYTimesData/NYTimesDownloadData/7183aa7-4960-4c4e-926f-f638dd19d1d.html]  
Mike Isaac, a reporter for The New York Times, weighs in on Facebook's new censorship software, which was created to help it get back into China.
2. Trump Cheered at Carrier - Video - NYTimes.com [home/ankit/solr-6.5.0/NYTimesData/NYTimesDownloadData/23ab0888-4bd8-4e0b-b170-13a40b79993.html]  
President-elect Donald Trump took credit for saving roughly half of the 2,000 jobs Indianapolis stood to lose at the beating and cooling giant Carrier.
3. Starbucks Chief to Step Aside - Video - NYTimes.com [home/ankit/solr-6.5.0/NYTimesData/NYTimesDownloadData/820ac692-0f28-4cbe-8b52-b535229c1936.html]  
Howard Schultz, the visionary leader of Starbucks, will turn the coffee chain over to a handpicked successor next spring. There is speculation he will enter politics.
4. Yellen on Impact of Trump's Election - Video - NYTimes.com [home/ankit/solr-6.5.0/NYTimesData/NYTimesDownloadData/91dadf7d-4d48-4f23-af6e-d55ef69c495a.html]  
"We don't know what's going to happen," Janet Yellen, the Federal Reserve chairwoman, told Congress. "There's a great deal of uncertainty."
5. Trump's Picks for Treasury and Commerce - Video - NYTimes.com [home/ankit/solr-6.5.0/NYTimesData/NYTimesDownloadData/7538476-7bd2-4d11-8a68-bf25761ccda5.html]  
"The No.1 problem with the Volcker Rule is it's too complicated and people don't know how to interpret it," said Steven Mnuchin, Donald Trump's pick for Treasury.
6. A Trump-Size Idea: Build Something - Video - NYTimes.com [home/ankit/solr-6.5.0/NYTimesData/NYTimesDownloadData/5e2b156-2fac-4aed-9626-d7703de907d.html]  
How can President-elect Donald Trump unify America and provide jobs? Build something awe-inspiring, says James Stewart of The New York Times.
7. Trump's Wall Street Advisers - Video - NYTimes.com [home/ankit/solr-6.5.0/NYTimesData/NYTimesDownloadData/d6b2967-79d8-47cc-98de-cb4ed6a341a4.html]  
"Donald comes from the financial services world. I think he tends to pick people who he's comfortable with," Stephen Schwarzman of the Blackstone Group said.
8. New York Prosecutor on Privacy and Apple - Video - NYTimes.com [home/ankit/solr-6.5.0/NYTimesData/NYTimesDownloadData/3001c7d7-0c83-4d89-8099-52030424af0.html]  
Cyrus R. Vance Jr., the Manhattan district attorney, called Apple and Google the "wild west" of technology on Friday.
9. Tim Cook on iPhone Data Privacy - Video - NYTimes.com [home/ankit/solr-6.5.0/NYTimesData/NYTimesDownloadData/85a1fb7-2d81t-4ecc-ad38-eac7411c56fa.html]  
The chief executive of Apple, Timothy D. Cook, said that the company did not expect to be at odds with the government over iPhone encryption, but that it would not back down.
10. Facebook to Bring Chats Back - Video - NYTimes.com [home/ankit/solr-6.5.0/NYTimesData/NYTimesDownloadData/db1abc9f-156d-437e-bf1d-65b1aeb90b7.html]  
At the F8 Facebook developers conference, the Facebook co-founder Mark Zuckerberg unveiled an update to the Messenger app that will allow people to communicate online orders directly to a business, through a bot.

## PageRank

Search:   ☐ Lucene ☒ PageRank

Results 1 - 10 of 170:

1. Tech Leaders on China's Economy - Video - NYTimes.com [home/ankit/solr-6.5.0/NYTimesData/NYTimesDownloadData/316502a3-79e0-4b7b-aeb2-cf2849367004.html]  
Mark Zuckerberg of Facebook and Jack Ma of Alibaba discussed the state of the Chinese economy at a forum in Beijing on Saturday.
2. Philippines Senate Opens Inquiry on Theft - Video - NYTimes.com [home/ankit/solr-6.5.0/NYTimesData/NYTimesDownloadData/a34dd56a-4667-48e8-b9b2-388f3d35b944.html]  
Senators in the Philippines said that they were investigating \$81 million stolen by hackers from a Federal Reserve Bank of New York account owned by the Bangladesh government.
3. Technology Video Channel - NYTimes.com [home/ankit/solr-6.5.0/NYTimesData/NYTimesDownloadData/276994d-6397-43e0-b732-ed9505ae8192.html]  
<http://www.nytimes.com/video/technology>
4. E.U. Cracks Down on Corporate Tax Fraud - Video - NYTimes.com [home/ankit/solr-6.5.0/NYTimesData/NYTimesDownloadData/93829e0a-f020-4639-b15e-04a2d46e8f53d.html]  
Amid revelations from the Panama Papers leak, the European Commission released a proposal to combat corporate tax shelters.
5. An Election Made for TV News - Video - NYTimes.com [home/ankit/solr-6.5.0/NYTimesData/NYTimesDownloadData/1dc3567e-c751-4a55-a3d3-1685a01fb583.html]  
The election results may not come in until Tuesday, but TV news is already a winner in terms of ratings generated by coverage of Donald J. Trump and Hillary Clinton's campaigns.
6. Taste Test: The Impossible Burger - Video - NYTimes.com [home/ankit/solr-6.5.0/NYTimesData/NYTimesDownloadData/f75c277b-dd6e-44a1-b80a-5530d226073.html]  
A butcher, a cardiologist, a vegan and a technology reporter try the Impossible Burger, a plant-based hamburger that "bleeds," made by Silicon Valley start-up Impossible Foods.
7. Obama Criticizes Tax Loopholes - Video - NYTimes.com [home/ankit/solr-6.5.0/NYTimesData/NYTimesDownloadData/b6c9bfc-4c7b-465d-a04c-5ed3c6ac4238.html]  
President Obama praised new rules designed to prevent companies from avoiding taxes, saying corporate inversions "stick the rest of us with the tab."
8. Pope Calls Attack in Pakistan 'Hideous' - Video - NYTimes.com [home/ankit/solr-6.5.0/NYTimesData/NYTimesDownloadData/c96b1e58-b530-4770-5ccc-18aef1a3add4.html]  
Speaking at the Vatican, Pope Francis condemned the attack aimed at Christians in central Pakistan and called for better protection of religious minorities.
9. Galaxy Note 7 Abandoned by Customers - Video - NYTimes.com [home/ankit/solr-6.5.0/NYTimesData/NYTimesDownloadData/5a16db8-7713-4ca4-b20f-e978894b4276.html]  
Consumers put their safety first after Samsung announced that it would stop selling its troubled Galaxy Note 7 smartphone following new reports of the phones catching fire.
10. U.S. Attorney Announces Insider Trade Charges - NYTimes.com [home/ankit/solr-6.5.0/NYTimesData/NYTimesDownloadData/3fb14cb-2fa4-4a9b-a7ec-0d0d0af5ce9.html]  
Federal authorities announced criminal charges on Thursday against the former chairman of Dean Foods and a high-rolling sports gambler with ties to prominent athletes, including Phil Mickelson, the golfer.

## Overlap 0



## QUERY 3 NBA Lucene

Search: NBA  
\* Lucene \* PageRank  
Submit

Results 1 - 10 of 21:

1. [Kobe Bryant, una leyenda de la NBA, se despidió con una victoria - Español](#) [home/ankit/solr-6.5.0/NYTimesData/NYTimesDownloadData/1815c67f-714d-4494-b398-3c0f32d3311.html]  
<https://www.nytimes.com/es/2016/04/15/el-fin-de-una-era-kobe-bryant-se-despide-de-la-nba-con-60-puntos-en-su-ultimo-juego/>
2. [LeBron James y Michael Jordan, carreras y espíritus conectados por la historia - Español](#) [home/ankit/solr-6.5.0/NYTimesData/NYTimesDownloadData/2a321a51-2dce-4020-b5c5-1567c060b0c.html]  
<https://www.nytimes.com/es/2016/06/27/100000004482310/>
3. [LeBron James y Michael Jordan, carreras y espíritus conectados por la historia - Español](#) [home/ankit/solr-6.5.0/NYTimesData/NYTimesDownloadData/15a2007-709f-4bcd-b596-7cac38d5b67e.html]  
<https://www.nytimes.com/es/2016/06/27/100000004482310/amp/>
4. [Remembering a Legend - Video - NYTimes.com](#) [home/ankit/solr-6.5.0/NYTimesData/NYTimesDownloadData/5229a27a-7bf7-4c39-a4a3-ba718d262187.html]  
<http://www.nytimes.com/video/sports/100000004465205/remembering-a-legend.html>  
Bill Clinton, Billy Crystal and Bryant Gumbel delivered eulogies for Muhammad Ali at a 15,000-seat sports arena in his hometown, Louisville today.
5. [Contentious Impeachment Vote in Brazil - Video - NYTimes.com](#) [home/ankit/solr-6.5.0/NYTimesData/NYTimesDownloadData/0475c566-714b-443a-a01d-c86a52b02ba0.html]  
<http://www.nytimes.com/video/world/americas/100000004336203/contentious-impeachment-vote-in-brazil.html>  
Lawmakers in the Brazilian Chamber of Deputies cast votes on impeachment proceedings against President Dilma Rousseff in a tense atmosphere on Sunday.
6. [Earthquake Devastates Ecuador - Video - NYTimes.com](#) [home/ankit/solr-6.5.0/NYTimesData/NYTimesDownloadData/78102161-5c0e-4c61-b0c3-ada02ce68403.html]  
<http://www.nytimes.com/video/world/americas/100000004335971/earthquake-devastates-ecuador.html>  
At least 230 people were killed and hundreds more were wounded in one of the strongest earthquakes to strike Ecuador in decades.
7. [New York Times Basketball History Book](#) [home/ankit/solr-6.5.0/NYTimesData/NYTimesDownloadData/734237-449d-4c84-93ec-9207b9c10039.html]  
<https://www.nytimes.com/store/catalog/product/view/id/60364>  
These beautiful handmade leatherette books are the perfect gift for the sports fan who has everything. Each book retraces the history of the NBA team you select. Through reprinted New York Times pages, each book captures a teams glory days, biggest games
8. [New York Times Basketball History Book](#) [home/ankit/solr-6.5.0/NYTimesData/NYTimesDownloadData/7238451-a392-4f58-a3cc-5dd5703d316.html]  
<https://www.nytimes.com/store/new-york-times-basketball-history-book-nsbk.html>  
These beautiful handmade leatherette books are the perfect gift for the sports fan who has everything. Each book retraces the history of the NBA team you select. Through reprinted New York Times pages, each book captures a teams glory days, biggest games
9. [Personalized History of Basketball Book | The New York Times Store](#) [home/ankit/solr-6.5.0/NYTimesData/NYTimesDownloadData/96205deb-defc-4e95-8760-f15d8fcca9.html]  
<https://www.nytimes.com/store/new-york-times-personalized-basketball-history-book-nsbkp.html>  
Each book retraces the history of the NBA team you select. Through reprinted New York Times pages, each book captures a teams glory days, biggest games and greatest players.
10. [Personalized History of Basketball Book | The New York Times Store](#) [home/ankit/solr-6.5.0/NYTimesData/NYTimesDownloadData/b43f8110-cd31-4c97-ba7b-275f549c230c.html]

## PageRank

Search: NBA  
\* Lucene \* PageRank  
Submit

Results 1 - 10 of 21:

1. [The New York Times - Breaking News, World News & Multimedia](#) [home/ankit/solr-6.5.0/NYTimesData/NYTimesDownloadData/1872f0c1-740d-46f7-a626-95c75a288647.html]  
<http://www.nytimes.com>  
The New York Times: Find breaking news, multimedia, reviews & opinion on Washington, business, sports, movies, travel, books, jobs, education, real estate, cars & more at nytimes.com.
2. [Food - The New York Times](#) [home/ankit/solr-6.5.0/NYTimesData/NYTimesDownloadData/972c422-5186-4eb9-99ca-06d4d4651352.html]  
<https://www.nytimes.com/pages/dining/index.html>  
Find food and wine news and reviews on restaurants, recipes, cooking, desserts, chefs, fine dining, cuisine, New York restaurants, four-star restaurants and more.
3. [Politics - Election News - Breaking News, Blogs, Results - The New York Times](#) [home/ankit/solr-6.5.0/NYTimesData/NYTimesDownloadData/6e82eb2-599e-4d67-882c-86b39ccac247.html]  
<https://www.nytimes.com/pages/politics/index.html>  
News, opinion and multimedia on politics and government.
4. [When Linsanity Happened - Video - NYTimes.com](#) [home/ankit/solr-6.5.0/NYTimesData/NYTimesDownloadData/99f7cc93-3dfe-421f-b94d-056c45c1078.html]  
<http://www.nytimes.com/video/sports/basketball/100000004721021/when-linsanity-happened.html>  
Linsanity reverberates today. We look back on it — the good, the bad and the gaffes — on the eve of Jeremy Lin's return to New York as a member of the Nets.
5. [Personalized History of Basketball Book | The New York Times Store](#) [home/ankit/solr-6.5.0/NYTimesData/NYTimesDownloadData/96205deb-defc-4e95-8760-f15d8fcca9.html]  
<https://www.nytimes.com/store/new-york-times-personalized-basketball-history-book-nsbkp.html>  
Each book retraces the history of the NBA team you select. Through reprinted New York Times pages, each book captures a teams glory days, biggest games and greatest players.
6. [Memorias millonarias: los Obama podrian vivir de los libros despues de la Casa Blanca - Español](#) [home/ankit/solr-6.5.0/NYTimesData/NYTimesDownloadData/b6e1dce3-4110-4112-9c32-ff498402721.html]  
<https://www.nytimes.com/es/2016/09/07/la-familia-obama-podria-vivir-de-escribir-libros-despues-de-la-casa-blanca/>
7. [New York Times Basketball History Book](#) [home/ankit/solr-6.5.0/NYTimesData/NYTimesDownloadData/7238451-a392-4f58-a3cc-5dd5703d316.html]  
<https://www.nytimes.com/store/new-york-times-basketball-history-book-nsbk.html>  
These beautiful handmade leatherette books are the perfect gift for the sports fan who has everything. Each book retraces the history of the NBA team you select. Through reprinted New York Times pages, each book captures a teams glory days, biggest games
8. [Magic Johnson Signed Basketball](#) [home/ankit/solr-6.5.0/NYTimesData/NYTimesDownloadData/56034186-1028-471f-ae6d-1e62a8007f1.html]  
<https://www.nytimes.com/store/magic-johnson-signed-basketball-brigs1.html>  
Magic Johnson is often regarded as one of basketballs greatest point guards. At 6'9, his ability to play point guard at his size changed how people viewed the position. Johnsons Hall of Fame career included three Most Valuable Player Awards, five Nations
9. [Remembering a Legend - Video - NYTimes.com](#) [home/ankit/solr-6.5.0/NYTimesData/NYTimesDownloadData/5229a27a-7bf7-4c39-a4a3-ba718d262187.html]  
<http://www.nytimes.com/video/sports/100000004465205/remembering-a-legend.html>  
Bill Clinton, Billy Crystal and Bryant Gumbel delivered eulogies for Muhammad Ali at a 15,000-seat sports arena in his hometown, Louisville today.
10. [Contentious Impeachment Vote in Brazil - Video - NYTimes.com](#) [home/ankit/solr-6.5.0/NYTimesData/NYTimesDownloadData/0475c566-714b-443a-a01d-c86a52b02ba0.html]

## Overlap 4

## QUERY 4 Snapchat Lucene

Search:

☒ Lucene ☐ PageRank

Results 1 - 10 of 73:

1. Snapchat – Español [home/ankit/solr-6.5.0/NYTimesData/NYTimesDownloadData/3eddf6e2-c2f0-4511-a5ae-68196b50a59c.html]  
<https://www.nytimes.com/es/tag/snapchat/>
2. Snapchat revolucionó las redes sociales sin que nos diéramos cuenta – Español [home/ankit/solr-6.5.0/NYTimesData/NYTimesDownloadData/722ff6d1-2f13-420d-8072-3c0b08891811.html]  
<https://www.nytimes.com/es/2016/12/09/snapchat-revoluciona-las-redes-sociales-sin-que-nos-dieramos-cuenta/>
3. Instagram contra Snapchat: la batalla por las imágenes efímeras – Español [home/ankit/solr-6.5.0/NYTimesData/NYTimesDownloadData/80cf1852-1299-4053-a23e-1a9ada0293b6.html]  
<https://www.nytimes.com/es/2016/08/13/instagram-contra-snapchat-la-batalla-por-las-imagenes-efimeras/>
4. Con los lentes 'Spectacles', Snapchat quiere triunfar donde Google Glass no pudo – Español [home/ankit/solr-6.5.0/NYTimesData/NYTimesDownloadData/fcb84025-64ed-412b-8d55-a52c425b2240.html]  
<https://www.nytimes.com/es/2016/11/22/con-los-spectacles-snapchat-quiere-triunfar-donde-google-glass-no-pudo/>
5. Snow, el snapchat surcoreano, triunfa en Asia – Español [home/ankit/solr-6.5.0/NYTimesData/NYTimesDownloadData/6ad92401-2fde-400f-a003-36dec32ef909.html]  
<https://www.nytimes.com/es/2016/07/12/snow-la-copia-surcoreana-de-snapchat-que-triunfa-en-asia/>
6. Snapchat revolucionó las redes sociales sin que nos diéramos cuenta – Español [home/ankit/solr-6.5.0/NYTimesData/NYTimesDownloadData/575e6247-635b-4cc6-b5c5-810d989d5967.html]  
<https://www.nytimes.com/es/2016/12/09/snapchat-revoluciona-las-redes-sociales-sin-que-nos-dieramos-cuenta/amp/>
7. Instagram contra Snapchat: la batalla por las imágenes efímeras – Español [home/ankit/solr-6.5.0/NYTimesData/NYTimesDownloadData/38d4514b-9461-4093-b022-f53b3a67c70.html]  
<https://www.nytimes.com/es/2016/08/13/instagram-contra-snapchat-la-batalla-por-las-imagenes-efimeras/amp/>
8. Así aprendí a amar Snapchat – Español [home/ankit/solr-6.5.0/NYTimesData/NYTimesDownloadData/cdf753838-1a43-4401-b4b4-3dc49f451bd5.html]  
<https://www.nytimes.com/es/2016/05/29/asi-aprendi-a-amar-snapchat/>
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## PageRank

Search:

☐ Lucene ☒ PageRank

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1. Tecnología – Español [home/ankit/solr-6.5.0/NYTimesData/NYTimesDownloadData/96a3245a-9f2a-4c35-bd40-907ab6b4205b.html]  
<https://www.nytimes.com/es/collection/tecnologia/>
2. Negocios – Español [home/ankit/solr-6.5.0/NYTimesData/NYTimesDownloadData/930834e-7ba9-436c-aa14-15dd798e51e2.html]  
<https://www.nytimes.com/es/collection/negocios/>
3. google – Español [home/ankit/solr-6.5.0/NYTimesData/NYTimesDownloadData/afe1960c-148d-4e90-b55f-2181a636c9fb.html]  
<https://www.nytimes.com/es/tag/google/>
4. Facebook – Español [home/ankit/solr-6.5.0/NYTimesData/NYTimesDownloadData/05db678a-337c-4e29-976f-54892c9e7f66.html]  
<https://www.nytimes.com/es/tag/facebook/>
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6. A pesar del mal momento que atraviesa Brasil, Louis Vuitton lleva su glamur a Río – Español [home/ankit/solr-6.5.0/NYTimesData/NYTimesDownloadData/2819068b-c82f-40a5-b15b-94e05ecd9333.html]  
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## Overlap 1



## QUERY 5 Illegal Immigration Lucene

Search:

Results 1 - 10 of 880:

1. [U.S. Immigration and Customs Enforcement - The New York Times](#) [home/ankit/solr-6.5.0/NYTimesData/NYTimesDownloadData/96e6f589-b9ad-40e0-9c18-62f8643e604.html]  
<http://www.nytimes.com/topic/organization/us-immigration-and-customs-enforcement>
2. [Obama: 'Heartbreaking' Immigration Vote - Video - NYTimes.com](#) [home/ankit/solr-6.5.0/NYTimesData/NYTimesDownloadData/2b4baac2-22be-455d-8d13-753153c3b098.html]  
<http://www.nytimes.com/video/us/politics/100000004490066/obama-heartbreaking-immigration-vote.html>  
The president spoke after the 4-4 ruling by the Supreme Court on Thursday that deals a blow to his plan to spare millions of illegal immigrants from deportation.
3. [Naturalization: Becoming an American - Video - NYTimes.com](#) [home/ankit/solr-6.5.0/NYTimesData/NYTimesDownloadData/s30fc06b-67ec-402a-b773-88f96a402d20.html]  
<http://www.nytimes.com/video/us/100000004750106/naturalization-becoming-an-american.html>  
Carmen Joan Edwards spent 15 years trying to change her status from illegal immigrant to naturalized citizen. She is now eligible to vote on Election Day.
4. [Obama's Immigration Address - Video - NYTimes.com](#) [home/ankit/solr-6.5.0/NYTimesData/NYTimesDownloadData/3ad84747-d18f-4a79-b1d4-fca97952b1fa.html]  
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In a prime-time speech, President Obama announced a series of executive actions to grant work permits and temporary reprieves from deportation to as many as five million undocumented immigrants.
5. [Refugees: Stuck in Limbo in Greece - Video - NYTimes.com](#) [home/ankit/solr-6.5.0/NYTimesData/NYTimesDownloadData/dbe19180-875a-4f3f-9712-985832aa6235.html]  
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As aid and attention dwindle, more than 57,000 refugees remain stuck in Greece. Their route through the Balkans into Europe was closed off in March, and thousands now wait for their asylum applications to be processed.
6. [Immigration Raids Set Off Protests - Video - NYTimes.com](#) [home/ankit/solr-6.5.0/NYTimesData/NYTimesDownloadData/05544436-8125-4000-97db-c799b2c96978.html]  
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A recent wave of immigration roundups prompted protests in several American cities, although officials at Immigration and Customs Enforcement said the crackdown that people were seeing did not represent an increased tempo.
7. [Trump revive el miedo de las redadas migratorias y las deportaciones masivas en Estados Unidos - Español](#) [home/ankit/solr-6.5.0/NYTimesData/NYTimesDownloadData/v0bf50-8345-4adf-8856-ddeb715c53a.html]  
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10. [Policing the Amazon - Video - NYTimes.com](#) [home/ankit/solr-6.5.0/NYTimesData/NYTimesDownloadData/089722c-777f-442b-85ba-5813ccf58c75.html]

## PageRank

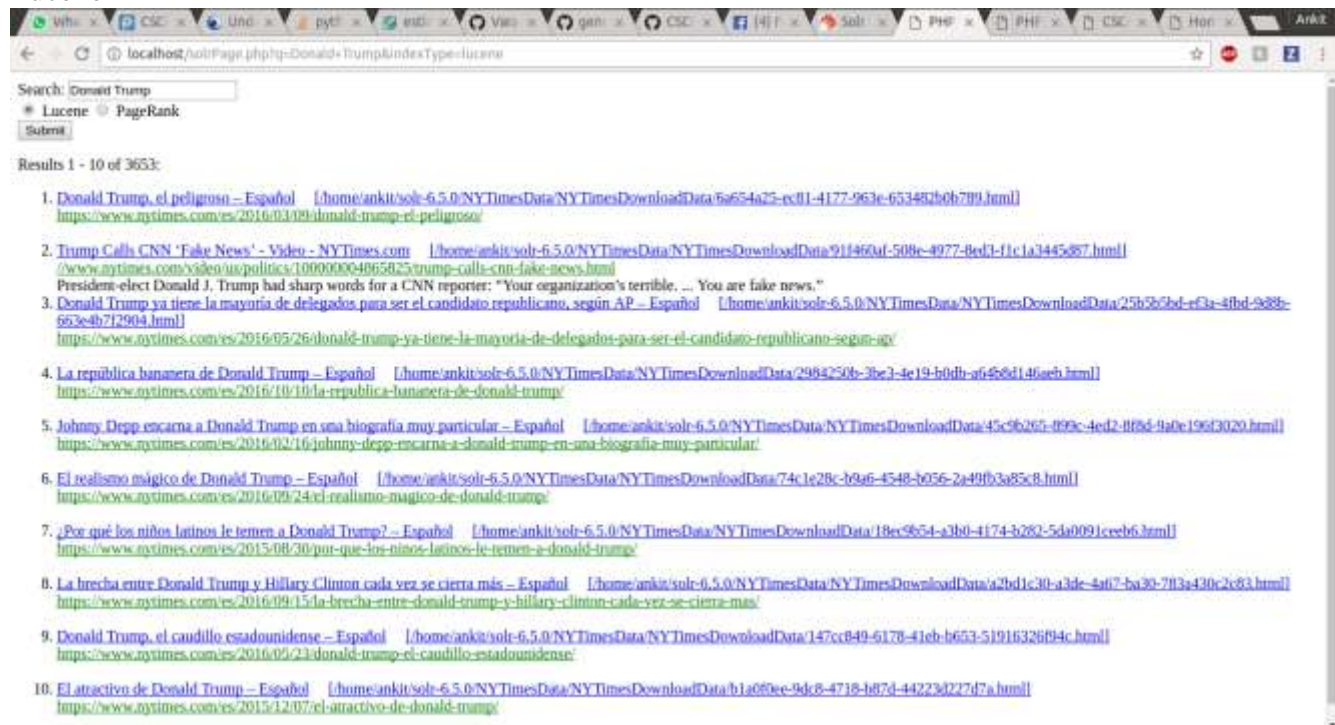
Search:

Results 1 - 10 of 880:

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Whether it's reporting on conflicts abroad and political divisions at home, or covering the latest style trends and scientific developments, Times Video journalists provide a revealing and unforgettable view of the world.
3. ['No importa, no naciste en este país': amenazan con deportación a 'dreamer' mexicano - Español](#) [home/ankit/solr-6.5.0/NYTimesData/NYTimesDownloadData/016e39c4-C8b0-4bcd-a515-da3325e515de.html]  
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4. [Convocan a 'Un día sin inmigrantes' en Estados Unidos y Washington ya lo siente - Español](#) [home/ankit/solr-6.5.0/NYTimesData/NYTimesDownloadData/5366176f-c569-4818-a51f-93a312811au5.html]  
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6. [Los migrantes arremozados inundan los consulados mexicanos - Español](#) [home/ankit/solr-6.5.0/NYTimesData/NYTimesDownloadData/61003727-e684-4072-a3be-0f7d00d342b0.html]  
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President Trump took issue with reports of an administration in turmoil, saying his team was running like a "fine-tuned machine."
8. [Michael T. Flynn: A Timeline of His Tenure - Video - NYTimes.com](#) [home/ankit/solr-6.5.0/NYTimesData/NYTimesDownloadData/b9fc00b8-57f6-4462-af4c-c58ce30840ee.html]  
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The events that led to Michael T. Flynn's abrupt resignation as national security adviser stretch back to before President Trump's inauguration.
9. [4.1 Miles - Video - NYTimes.com](#) [home/ankit/solr-6.5.0/NYTimesData/NYTimesDownloadData/49fba99a-5222-4978-8960-2e5b25c5d51e.html]  
<http://www.nytimes.com/video/opinion/100000004624545/41-miles.html>  
A coast guard captain on a small Greek island is suddenly charged with saving thousands of refugees from drowning at sea.
10. [Full Video: President Trump Holds Press Conference - Video - NYTimes.com](#) [home/ankit/solr-6.5.0/NYTimesData/NYTimesDownloadData/44244fb7-08d5-4b60-8c37-765df0b65d77.html]

## Overlap 0

## QUERY 6 Donald Trump Lucene

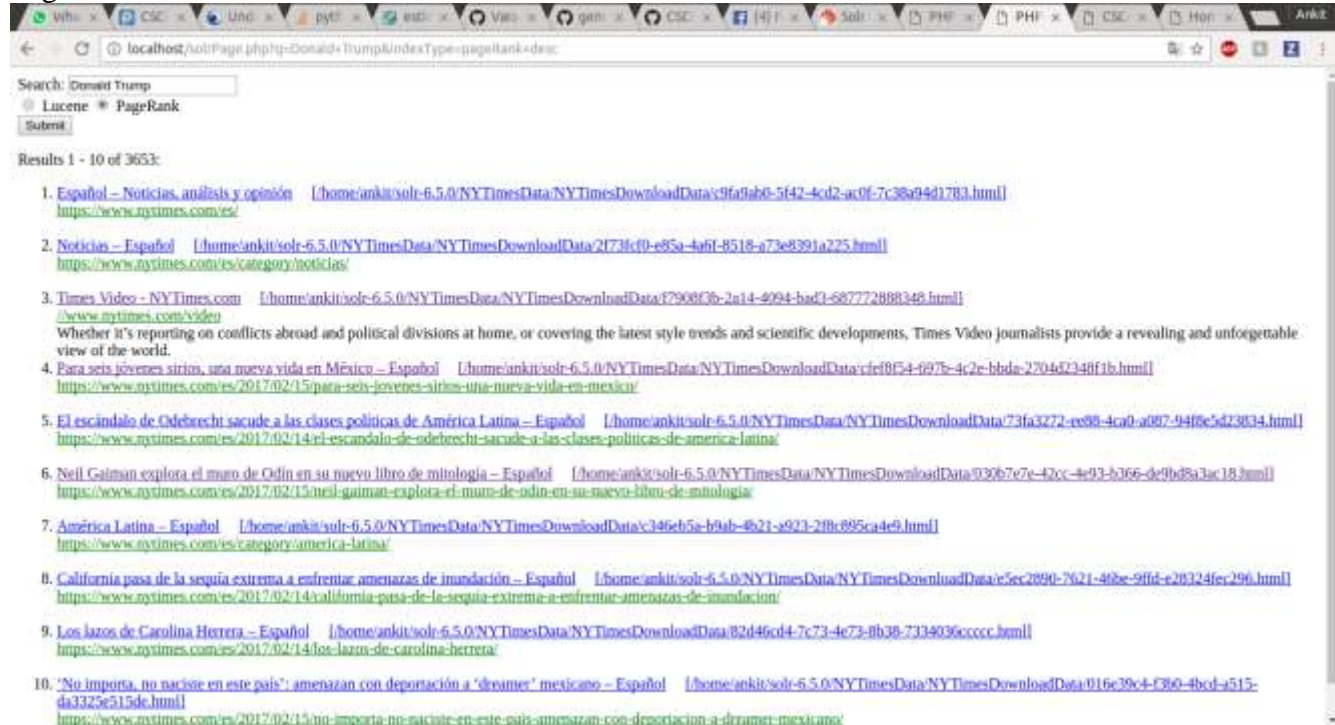


Search: Donald Trump  
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1. Donald Trump, el peligroso – Español [home/ankit/solr-6.5.0/NYTimesData/NYTimesDownloadData/5a654a75-ec81-4177-963e-653483b6709.html]  
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President-elect Donald J. Trump had sharp words for a CNN reporter: "Your organization's terrible. ... You are fake news."
3. Donald Trump ya tiene la mayoría de delegados para ser el candidato republicano, según AP – Español [home/ankit/solr-6.5.0/NYTimesData/NYTimesDownloadData/25b5b5bd-ef3a-4fbd-928b-663e4b712904.html]  
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5. Johnny Depp encarna a Donald Trump en una biografía muy particular – Español [home/ankit/solr-6.5.0/NYTimesData/NYTimesDownloadData/45c96265-f99c-4ed2-8f8d-9a0e196f3020.html]  
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<https://www.nytimes.com/es/2015/08/30/por-que-los-ninos-latinos-le-temen-a-donald-trump/>
8. La brecha entre Donald Trump y Hillary Clinton cada vez se cierra más – Español [home/ankit/solr-6.5.0/NYTimesData/NYTimesDownloadData/a2bd1c30-a3de-4a67-ba39-783a430c2c83.html]  
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## PageRank



Search: Donald Trump  
\* Lucene \* PageRank  
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1. Español – Noticias, análisis y opinión [home/ankit/solr-6.5.0/NYTimesData/NYTimesDownloadData/c9fa9ab9-5f42-4cd2-ac0f-7c38a94d1783.html]  
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Whether it's reporting on conflicts abroad and political divisions at home, or covering the latest style trends and scientific developments, Times Video journalists provide a revealing and unforgettable view of the world.
4. Para seis jóvenes sirios, una nueva vida en México – Español [home/ankit/solr-6.5.0/NYTimesData/NYTimesDownloadData/cfe0f54-f97e-4c2e-bbda-270462348f1b.html]  
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<https://www.nytimes.com/es/category/america-latina/>
8. California pasa de la sequía extrema a enfrentar amenazas de inundación – Español [home/ankit/solr-6.5.0/NYTimesData/NYTimesDownloadData/ec2890-7621-408e-9ff6-e28324fec296.html]  
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10. 'No importa, no naciste en este país': amenazan con deportación a 'dreamer' mexicano – Español [home/ankit/solr-6.5.0/NYTimesData/NYTimesDownloadData/016e39c4-c8b0-4bcd-a515-da3325e515de.html]  
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## Overlap 0



## QUERY 7 Russia Lucene

Search: Russia  
\* Lucene \* PageRank  
Submit

Results 1 - 10 of 1374:

1. Sinkhole in Russia Threatens Home - Video - NYTimes.com [home/ankit/solr-6.5.0/NYTimesData/NYTimesDownloadData/36429ad0-5fa0-495e-8722-11463e35fc5.html]  
[www.nytimes.com/video/world/europe/100000003561540/sinkhole-in-russia-threatens-home.html]  
A striking video shot earlier this year by a resident captured images of a huge sinkhole in Solikamsk, Russia.
2. Putin on U.S. Cooperation in Syria - Video - NYTimes.com [home/ankit/solr-6.5.0/NYTimesData/NYTimesDownloadData/b94716ba-427c-4291-aa46-61c0288eece6.html]  
[www.nytimes.com/video/world/100000003994247/putin-on-us-cooperation-in-syria.html]  
Vladimir V. Putin, the Russian president, said that United States officials had suggested considering a "unifying of efforts" with regard to the conflict in Syria.
3. Putin and Assad Hold Talks on Syria - Video - NYTimes.com [home/ankit/solr-6.5.0/NYTimesData/NYTimesDownloadData/4947d295-3d6f-4842-9d6a-e3ac59625292.html]  
[www.nytimes.com/video/world/europe/100000003990050/putin-and-assad-hold-talks-on-syria.html]  
President Bashar al-Assad of Syria and President Vladimir V. Putin of Russia met in Moscow on Tuesday to discuss the military operations in Syria.
4. Kerry Calls on All Parties to Honor Truce in Aleppo - Video - NYTimes.com [home/ankit/solr-6.5.0/NYTimesData/NYTimesDownloadData/7b84e1d2-dc9b-48d7-b59f-7afe678b8d2.html]  
[www.nytimes.com/video/world/middleeast/100000004384451/kerry-calls-on-all-parties-to-honor-truce-in-aleppo.html]  
Secretary of State John Kerry announced Wednesday that the United States and Russia had agreed on the terms of a truce in Aleppo, Syria, and called on all parties to respect its terms.
5. U.S. and Russia Agree on Steps in Syria - Video - NYTimes.com [home/ankit/solr-6.5.0/NYTimesData/NYTimesDownloadData/7950a303-4574-4568-b162-ca158a799d9cd.html]  
[www.nytimes.com/video/world/100000004534201/us-and-russia-agree-on-steps-in-syria.html]  
Secretary of State John Kerry said on Friday that Washington and Moscow have agreed on actions the countries can take in Syria to end attacks by the Nusra Front and violations by the government.
6. Devastation in Drone Footage From Syria - Video - NYTimes.com [home/ankit/solr-6.5.0/NYTimesData/NYTimesDownloadData/2fe8a624-3557-46f1-9122-293336c5e997.html]  
[www.nytimes.com/video/world/middleeast/100000003994764/devastation-in-drone-footage-from-syria.html]  
Video shot over the Jobar neighborhood of Damascus shows widespread destruction and bombed-out buildings. An edited version of this video, set to music was posted on YouTube Oct. 19.
7. Proxy War in Syria: U.S. vs. Russia - Video - NYTimes.com [home/ankit/solr-6.5.0/NYTimesData/NYTimesDownloadData/7acd9a3-4069-4517-b03c-14fb2281224b.html]  
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A look inside a tight for power behind the battlefield scene in Syria. Who is winning the proxy war between Moscow and Washington?
8. Hospitals in Syria Are Airstrike Targets - Video - NYTimes.com [home/ankit/solr-6.5.0/NYTimesData/NYTimesDownloadData/ddc2606e-b0dc-4af6-ba72-5f0fb087bcd.html]  
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As government forces encircle rebel-held areas of Aleppo, Syria, the city's few remaining hospitals have come under fire. Airstrikes and lack of supplies are a matter of life and death for patients, according to The New York Times's Beirut bureau chief, Anne Barnard.
9. Kerry Meets With Putin In Moscow - Video - NYTimes.com [home/ankit/solr-6.5.0/NYTimesData/NYTimesDownloadData/2d6fb478-233e-4a5b-95ab-51c851a64293.html]  
[www.nytimes.com/video/world/europe/100000004531575/kerry-meets-with-putin-in-moscow.html]  
Secretary of state John Kerry met with President Vladimir V. Putin of Russia on Thursday to discuss an agreement for potential military cooperation in Syria.
10. Putin Dismisses Panama Papers Accusations - Video - NYTimes.com [home/ankit/solr-6.5.0/NYTimesData/NYTimesDownloadData/703a56ed-deae-4c4f-92fb-7bf7913c5b6.html]  
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During an appearance on Russian TV, President Vladimir V. Putin deflected accusations that some of his close associates had shoveled billions through offshore accounts, characterizing them as attempts

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3. 'A Fine-Tuned Machine' - Video - NYTimes.com [home/ankit/solr-6.5.0/NYTimesData/NYTimesDownloadData/f493fe7-f923-4de2-8be5-bc9e813ad7bc.html]  
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President Trump took issue with reports of an administration in turmoil, saying his team was running like a "fine-tuned machine."
4. Trump's Tense Response to Jewish Reporter - Video - NYTimes.com [home/ankit/solr-6.5.0/NYTimesData/NYTimesDownloadData/8c2ba9d1-fa94-4e62-b953-57df32b71218.html]  
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Jake Tux, an Orthodox Jewish reporter for Ami Magazine, a weekly published in Brooklyn, began to ask President Trump a question regarding bomb threats at Jewish centers. Mr. Trump, apparently believing he was being accused of anti-Semitism, reprimanded the reporter.
5. Classic Movie Posters | New York Times Store [home/ankit/solr-6.5.0/NYTimesData/NYTimesDownloadData/3f5a0494-78c3-45e2-ba44-f6e69ed2870.html]  
[https://www.nytimes.com/store/an/posters/vintage-movie-posters.html]  
These reminders of Hollywood's Golden Age will bring you back to the most memorable moments in cinematic history through vintage movie posters. Filled with old movie posters that come to life with legends of the silver screen, this collection of famous movie posters lets you display your love for the classics.
6. Michael T. Flynn: A Timeline of His Tenure - Video - NYTimes.com [home/ankit/solr-6.5.0/NYTimesData/NYTimesDownloadData/b9c008-576f-4462-af4c-c58cc30b40ee.html]  
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The events that led to Michael T. Flynn's abrupt resignation as national security adviser stretch back to before President Trump's inauguration.
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President Trump, speaking at the White House on Thursday, announced a new nominee for labor secretary and answered questions from reporters.
8. Trump Says 'Russia Is Fake News' - Video - NYTimes.com [home/ankit/solr-6.5.0/NYTimesData/NYTimesDownloadData/a9538702-482c-45ca-9627-91b13436eb42.html]  
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President Trump responded to questions about his administration's dealings with Russia in a news conference on Thursday.
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Peter Baker, chief White House correspondent and former Jerusalem bureau chief for The Times, on the relationship between President Trump and Prime Minister Benjamin Netanyahu of Israel.

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## QUERY 8 NASA Lucene

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Mary Tyler Moore brought a new depiction of the American woman to both "The Mary Tyler Moore Show" and "The Dick Van Dyke Show." Virginia Heffernan, a contributing writer for The New York Times, discusses Ms. Moore's roles and their influence.
4. Los nominados al Oscar: 'La La Land' y, por fin, más diversidad – Español [home/ankit/solr-6.5.0/NYTimesData/NYTimesDownloadData/ca11c98c-dc89-4f91-bd74-4c67ada4e599.html]  
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5. McConnell on Reported Hacking: 'Disturbing' - Video - NYTimes.com [home/ankit/solr-6.5.0/NYTimesData/NYTimesDownloadData/ef90c206-58e6-46a5-8891-86552da3a49f.html]  
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Senate Majority Leader Mitch McConnell urged Republicans and Democrats to work together to investigate Russian efforts to influence the election. "This simply cannot be a partisan issue," he said.
6. What Rafsanjani's Death Means for Iran - Video - NYTimes.com [home/ankit/solr-6.5.0/NYTimesData/NYTimesDownloadData/a1b95888-69eb-40ab-88db-54dc5ab3ec97.html]  
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7. Science Video Channel - NYTimes.com [home/ankit/solr-6.5.0/NYTimesData/NYTimesDownloadData/ef441d0-dce7-4faf-8ee7-f457fd5f93f5.html]  
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<http://www.nytimes.com/video/us/100000004812141/the-last-word-john-glenn.html>  
John Glenn, a symbol of the space age as the first American to orbit Earth, sat down with John Schwartz in 2012 — the 50th anniversary of his flight — to talk about making history and that "beautiful view."
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