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CSCI 572 Homework 4

News Set: NBC News

Steps followed in the homework:

1. Carried out the entire assignment on a MAC machine running OS X
2. Skipped Ubuntu, and started with downloading Lucene Solr, the data folder from google drive, networkX python library, JSOUP jar.
3. Installed Lucene Solr, and created the core hw4.
4. Changed the Managed-schema of the core of solr to prepare it for indexing.
5. Following the homework guidelines, first I loaded all the extracted NBC news data onto Lucene Solr index using bin/post, and then updated solr config file
6. Total number of files indexed: 19632 with possibly 2 files leading in Zip Bomb problems in solr, so effectively indexing 19630 files.
7. Created a simple PHP code that would accept a user string and pass that string to the Lucene Solr REST service to get the results. Processed the results in PHP to get the corresponding URL from the ID received in the result set by mapping it through the map* files provided. Displayed Title, URL, Short description and DOC ID.
8. Moved onto the second part of the assignment by writing a JAVA code that would create an edgelist. I have extracted only the links pointed by a[href]. The code snippet is as follows:

```
/**  
 * Author: Shobhit Agarwal <agar376@usc.edu>  
 */  
public class ExtractLinks {  
    public static void main(String[] args) throws Exception {  
        Map<String, String> fileUrlMap = new HashMap<String, String>();  
        Map<String, String> urlFileMap = new HashMap<String, String>();  
        BufferedReader br = new BufferedReader(  
            new  
            FileReader("/Users/ShobhitAgarwal/Downloads/NBCNewsData/mapNBCNewsDataFile.csv"));  
        String line = null;  
        while ((line = br.readLine()) != null) {  
            String arr[] = line.split(",");  
            if (arr.length > 1) {  
                fileUrlMap.put(arr[0], arr[1]);  
                urlFileMap.put(arr[1], arr[0]);  
            }  
        }  
        br.close();  
        File writeFile = new File(  
            "/Users/ShobhitAgarwal/Dropbox/USC/Spring 17/CS 572/Homework  
            Submissions/hw4/edgelist.txt");  
        Files.deleteIfExists(writeFile.toPath());  
        PrintWriter writer = new PrintWriter(new FileOutputStream(writeFile, true));  
        File dir = new  
        File("/Users/ShobhitAgarwal/Downloads/NBCNewsData/NBCNewsDownloadData/");
```

```

Set<String> edges = new HashSet<String>();
for (File file : dir.listFiles()) {
    Document doc = Jsoup.parse(file, "UTF-8", fileUrlMap.get(file.getName()));
    Elements links = doc.select("a[href]");
    Elements allLinks = new Elements();
    allLinks.addAll(links);
    for (Element el : allLinks) {
        String url = el.attr("abs:href").trim();
        if (urlFileMap.containsKey(url)) {
            edges.add(file.getName() + " " + urlFileMap.get(url));
        }
    }
}
for (String s : edges) {
    writer.println(s);
}
writer.flush();
writer.close();
}
}

```

- Using the edgelist created above, I wrote a python code that would take this edgelist as an input to NetworkX DiGraph and create a pagerank file using the Page rank parameters used:

```

G = nx.read_edgelist("edgeList.txt", create_using=nx.DiGraph(), delimiter=' ')
pr = nx.pagerank(G, alpha=0.85, personalization=None, max_iter=30, tol=1e-06,
nstart=None, weight='weight',dangling=None)

```

Code snippet:

```

import networkx as nx
G = nx.DiGraph()
G = nx.read_edgelist("edgeList.txt", create_using=nx.DiGraph(), delimiter=' ')
pr = nx.pagerank(G, alpha=0.85, personalization=None, max_iter=30, tol=1e-06, nstart=None,
weight='weight',dangling=None)
page_rank_file = open("external_pageRankFile.txt", "w+")
for key in pr:
    page_rank_file.write("/Users/ShobhitAgarwal/Downloads/NBCNewsData/NBCNewsD
ownloadData/" + key.strip() + "=" + ("%.6f" % pr[key]) + "\n")
page_rank_file.close()

```

- Made the corresponding changes in the managed-schema and solrconfig files to use the new pagerank file as an input
- Modified the PHP code that would provide an option to search with or without pagerank results using two radio buttons. If pagerank radio button is clicked, the PHP code would add a parameter (sort=pagerank desc) before passing the query to Solr via REST. By default Lucene (Default) algorithm is selected.
- Showed the new result set to the user, and noted any overlaps observed
- Analysed the results from two algorithms, analysed overlaps, created corresponding graphs in an Excel spreadsheet and wrote the final report.

Total Overlaps across all queries are: 0

Since there are no overlaps, there is no graph available in this report. Additional (0 graphs) graphs have been attached in a separate spreadsheet.

I found that some webpages, leads to the general webpages, thus getting a higher rank for these pages. By general pages I mean links like nbcnews.com, nbcnews.com/business, etc which do not have a direct relevance to the news, but since these links are present in almost all pages (header, broad category and other general links). This leads to almost all queries having these general pages as one of the top 10 results in the result set.

Furthermore, it worsens when we search for terms like ‘Russia’ or ‘Donald Trump’ which are very common these days and present in more than half the general pages, home pages, category pages etc. This was also one of the added reason for getting 0 overlap across all 8 queries.

Results:

Brexit

Solr:

1. <http://www.nbcnews.com/storyline/brexit-referendum/4-things-american-consumers-should-know-about-brexit-n598356>
2. <http://www.nbcnews.com/storyline/brexit-referendum/brexit-chaos-u-k-government-loses-court-case-eu-withdrawal-n677241>
3. <http://www.nbcnews.com/storyline/brexit-referendum/triumph-trump-online-reactions-brexit-n598106>
4. <http://www.nbcnews.com/storyline/brexit-referendum/britain-s-brexit-how-baby-boomers-defeated-millennials-historic-vote-n598481>
5. <http://www.nbcnews.com/storyline/brexit-referendum/did-brexit-referendum-embolden-racists-britain-s-streets-n599451>
6. <http://www.nbcnews.com/storyline/brexit-referendum/here-s-how-brexit-vote-will-affect-price-gas-n600641>
7. <http://www.nbcnews.com/storyline/brexit-referendum/brexit-vote-why-leave-result-has-global-automakers-worried-n598436>
8. <http://www.nbcnews.com/storyline/brexit-referendum/pro-brexit-trade-minister-liam-fox-rips-british-businesses-too-n646051>
9. <http://www.nbcnews.com/storyline/brexit-referendum/if-britain-votes-brexit-will-other-countries-follow-n597536>
10. <http://www.nbcnews.com/storyline/brexit-referendum/if-u-k-votes-brexit-will-other-countries-follow-n597536>

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PHP Solr Indexing and Search x

localhost/solrhw4.php?q=Brexit&pagerank=ucene

Search: Brexit

Use Lucene Solr Algorithm Use Page Rank Algorithm

Submit

Results 1 - 10 of 415:

1. **4 Things American Consumers Should Know About the Brexit - NBC News**
url: <http://www.nbcnews.com/storyline/brexit-referendum/4-things-american-consumers-should-know-about-brexit-n598356>
Doc ID: /Users/ShobhitAgarwal/Downloads/NBCNewsData/NBCNewsDownloadData/035b6ccb-904d-4dcba-c1-b39b55555dd9.html
Short Description: Are you befuddled by the Brexit?

2. **Brexit in Chaos as UK Government Loses Court Case on EU Withdrawal - NBC News**
url: <http://www.nbcnews.com/storyline/brexit-referendum/brexit-chaos-u-k-government-loses-court-case-eu-withdrawal-n677241>
Doc ID: /Users/ShobhitAgarwal/Downloads/NBCNewsData/NBCNewsDownloadData/2c45d221-46c9-4cf3-920d-c3a87485dfb8.html
Short Description: In a major blow for Prime Minister Theresa May, the High Court said her government needs the consent of lawmakers before launching Brexit.

3. **From Triumph to Trump: Online Reactions to 'Brexit' - NBC News**
url: <http://www.nbcnews.com/storyline/brexit-referendum/triumph-trump-online-reactions-brexit-n598106>
Doc ID: /Users/ShobhitAgarwal/Downloads/NBCNewsData/NBCNewsDownloadData/acc07e9-689c-4d38-819f-bbc797bdc7f6.html
Short Description: The Twitter hashtag #Brexit topped the list of trending topics.

4. **Britain's Brexit: How Baby Boomers Defeated Millennials in Historic Vote - NBC News**
url: <http://www.nbcnews.com/storyline/brexit-referendum/britain-s-brexit-how-baby-boomers-defeated-millennials-historic-vote-n598481>
Doc ID: /Users/ShobhitAgarwal/Downloads/NBCNewsData/NBCNewsDownloadData/61238700-526c-4e3f-9f71-69d152cc0d87.html
Short Description: The United Kingdom's decision to amputate itself from the European Union on Friday exposed something approaching an intergenerational war of ideas.

5. **Did Brexit Referendum Embolden Racists on Britain's Streets? - NBC News**
url: <http://www.nbcnews.com/storyline/brexit-referendum/did-brexit-referendum-embolden-racists-britain-s-streets-n599451>
Doc ID: /Users/ShobhitAgarwal/Downloads/NBCNewsData/NBCNewsDownloadData/dc3ce7bc-56b0-4dd5-b2de-f421d8167c5c.html
Short Description: Reports of racial abuse have spiked following Britain's bitterly fought "Brexit" referendum, according to campaigners.

6. **Here's How the Brexit Vote Will Affect the Price of Gas - NBC News**
url: <http://www.nbcnews.com/storyline/brexit-referendum/heres-how-brexit-vote-will-affect-price-gas-n600641>
Doc ID: /Users/ShobhitAgarwal/Downloads/NBCNewsData/NBCNewsDownloadData/46550da7-0f82-42bc-840b-e533e1d10a74.html
Short Description: The Brexit fallout could have an unexpected silver lining in the form of flat or even lower gas prices.

7. **Brexit Vote: Why the 'Leave' Result Has Global Automakers Worried - NBC News**
url: <http://www.nbcnews.com/storyline/brexit-referendum/brexit-vote-why-leave-result-has-global-automakers-worried-n598436>
Doc ID: /Users/ShobhitAgarwal/Downloads/NBCNewsData/NBCNewsDownloadData/44659258-cfc8-4edb-ba77-6018c26bae37.html
Short Description: Among those fearing the impact are key global automakers like Toyota, General Motors and Britain's own Jaguar Land Rover.

8. **Pro-Brexit Trade Minister Liam Fox Rips British Businesses as 'Too Lazy, Too Fat' - NBC News**
url: <http://www.nbcnews.com/storyline/brexit-referendum/pro-brexit-trade-minister-liam-fox-rips-british-businesses-too-n646051>
Doc ID: /Users/ShobhitAgarwal/Downloads/NBCNewsData/NBCNewsDownloadData/4af864b4-e543-4ccb-b5ed-aff04ac2ba0c.html

PageRank:

1. <http://www.nbcnews.com/feature/30-seconds-to-know>
2. <http://www.nbcnews.com/business/personal-finance>
3. <http://www.nbcnews.com/business/>
4. <http://www.nbcnews.com/feature/30-seconds-to-know/video/eight-weird-things-that-have-shown-up-on-weather-radar-701377603624>
5. <http://www.nbcnews.com/feature/30-seconds-to-know/video/what-is-this-heat-dome-we-re-trapped-under-729495619547>
6. <http://www.nbcnews.com/storyline/2016-election-day>
7. <http://www.nbcnews.com/politics/politics-news/decision-2016-look-back-trail-campaign-season-n686011>
8. <http://www.nbcnews.com/feature/101>
9. <http://www.nbcnews.com/business/travel/love-air-airports-airlines-celebrate-valentine-s-day-n720561>
10. <http://www.nbcnews.com/storyline/brexit-referendum>

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PHP Solr Indexing and Search x

localhost/solrhw4.php?q=Brexit&pagerank=pageRank

Search: Brexit

Use Lucene Solr Algorithm Use Page Rank Algorithm

Submit

Results 1 - 10 of 415:

1. **30 seconds to know - NBC News**
 url: <http://www.nbcnews.com/feature/30-seconds-to-know>
 Doc ID: /Users/ShobhitAgarwal/Downloads/NBCNewsData/NBCNewsDownloadData/80f37b5a-18a2-479d-b9e3-b04c5263429b.html
 Short Description: 30 seconds to know

2. **Personal Finance: Advice & News on Retirement, Budgeting & More - NBC News**
 url: <http://www.nbcnews.com/business/personal-finance>
 Doc ID: /Users/ShobhitAgarwal/Downloads/NBCNewsData/NBCNewsDownloadData/4d722b23-249a-4773-a9f2-b950798f056.html
 Short Description: Find personal finance news and tips on NBCNews.com. Read headlines about budgeting, financial planning, savings, retirement, loans, investments and more.

3. **Business: Money, Market, & Personal Finance News & Trends - NBC News**
 url: <http://www.nbcnews.com/business/>
 Doc ID: /Users/ShobhitAgarwal/Downloads/NBCNewsData/NBCNewsDownloadData/8b1859e6-33c0-4ea4-801e-122154a17e3d.html
 Short Description: Find the latest business news articles, photos and videos covering the economy, personal finance, financial markets and more on NBCNews.com.

4. **Eight Weird Things That Have Shown Up on Weather Radar - NBC News**
 url: <http://www.nbcnews.com/feature/30-seconds-to-know/video/eight-weird-things-that-have-shown-up-on-weather-radar-701377603624>
 Doc ID: /Users/ShobhitAgarwal/Downloads/NBCNewsData/NBCNewsDownloadData/e5e0f461-2307-4097-b38f-a34090659562.html
 Short Description: Your local weather map might be showing bug swarms headed your way. Click to find out other strange things weather radar can track.

5. **What a Heat Dome? - NBC News**
 url: <http://www.nbcnews.com/feature/30-seconds-to-know/video/what-is-this-heat-dome-we-re-trapped-under-729495619547>
 Doc ID: /Users/ShobhitAgarwal/Downloads/NBCNewsData/NBCNewsDownloadData/84b60d2a-7d3e-45a9-87ef-250ce63d6e3f.html
 Short Description: Much of the U.S. will be facing scorching temperatures in the coming days.

6. **2016 ELECTION DAY - NBC News**
 url: <http://www.nbcnews.com/storyline/2016-election-day>
 Doc ID: /Users/ShobhitAgarwal/Downloads/NBCNewsData/NBCNewsDownloadData/b7eccccae-9225-4137-8f00-99c599ccf6f02.html
 Short Description: As America goes to the polls to choose the next president, click here for live updates all day and results through the night.

7. **Decision 2016: A Look Back 'On the Trail' - NBC News**
 url: <http://www.nbcnews.com/politics/politics-news/decision-2016-look-back-trail-campaign-season-n686011>
 Doc ID: /Users/ShobhitAgarwal/Downloads/NBCNewsData/NBCNewsDownloadData/e4584bca-b012-4444-8164-c14ae8b517d1.html
 Short Description: The political unit at NBC News blogged about the 2016 election for a year. Here's what we wrote about.

8. **101: Everything You Need to Know About the Latest Stories - NBC News**
 url: <http://www.nbcnews.com/feature/101>
 Doc ID: /Users/ShobhitAgarwal/Downloads/NBCNewsData/NBCNewsDownloadData/638518c2-3c83-44df-b22a-f1f0d15f111a.html

Overlap: 0

NASDAQ

Solr:

1. <http://www.nbcnews.com/business/markets/amp/wall-street-record-highs-techs-energy-stocks-rally-n686846>
2. <http://www.nbcnews.com/business/markets/amp/dow-pauses-after-six-day-rally-tech-stocks-finally-get-n684211>
3. <http://www.nbcnews.com/business/markets/wall-street-record-highs-techs-energy-stocks-rally-n686846>
4. <http://www.nbcnews.com/business/markets/dow-pauses-after-six-day-rally-tech-stocks-finally-get-n684211>
5. <http://www.nbcnews.com/business/markets/amp/president-trump-dow-20k-i-m-very-proud-n712436>
6. <http://www.nbcnews.com/business/markets/amp/dow-s-p-close-all-time-highs-12th-time-election-n693311>
7. <http://www.nbcnews.com/business/markets/amp/dow-breaks-above-19-000-s-p-jumps-over-2-n687161>
8. <http://www.nbcnews.com/business/markets/amp/dow-closes-above-19-000-stocks-notch-record-closing-highs-n687341>
9. <http://www.nbcnews.com/business/markets/dow-s-p-close-all-time-highs-12th-time-election-n693311>
10. <http://www.nbcnews.com/technology/google-stock-surges-tops-1-000-share-8C11418694>

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PHP Solr Indexing and Search x

localhost/solriw4.php?q=NASDAQ&pagerank=lucene

Search: NASDAQ

Use Lucene Solr Algorithm Use Page Rank Algorithm

Submit

Results 1 - 10 of 77:

1. **Wall Street at Record Highs as Techs, Energy Stocks Rally - NBC News**
url: <http://www.nbcnews.com/business/markets/wall-street-record-highs-techs-energy-stocks-rally-n686846>
Doc ID: /Users/ShobhitAgarwal/Downloads/NBCNewsData/NBCNewsDownloadData/619371a9-8b61-4931-9f10-2aa323789d72.html
Short Description: The Dow, S&P 500 and the Nasdaq hit record intraday highs on Monday as Apple and Facebook propelled technology shares and oil boosted energy stocks.
2. **Dow Pauses After Six-Day Rally; Tech Stocks Finally Get a Boost - NBC News**
url: <http://www.nbcnews.com/business/markets/dow-pauses-after-six-day-rally-tech-stocks-finally-get-n684211>
Doc ID: /Users/ShobhitAgarwal/Downloads/NBCNewsData/NBCNewsDownloadData/f77ce5da-0913-44a7-b8ef-a1357a0dae66.html
Short Description: The S&P 500 and the Nasdaq were higher in early afternoon trading on Tuesday as tech stocks were back in demand after a post-election drubbing.
3. **Wall Street at Record Highs as Techs, Energy Stocks Rally - NBC News**
url: <http://www.nbcnews.com/business/markets/wall-street-record-highs-techs-energy-stocks-rally-n686846>
Doc ID: /Users/ShobhitAgarwal/Downloads/NBCNewsData/NBCNewsDownloadData/0cce91f9-a3bb-43c8-8f94-e1fa30daa331.html
Short Description: The Dow, S&P 500 and the Nasdaq hit record intraday highs on Monday as Apple and Facebook propelled technology shares and oil boosted energy stocks.
4. **Dow Pauses After Six-Day Rally; Tech Stocks Finally Get a Boost - NBC News**
url: <http://www.nbcnews.com/business/markets/dow-pauses-after-six-day-rally-tech-stocks-finally-get-n684211>
Doc ID: /Users/ShobhitAgarwal/Downloads/NBCNewsData/NBCNewsDownloadData/ffdfb44-e65b-4fb6-9a2f-630262352dfe.html
Short Description: The S&P 500 and the Nasdaq were higher in early afternoon trading on Tuesday as tech stocks were back in demand after a post-election drubbing.
5. **President Trump on Dow 20K: 'I'm Very Proud of That' - NBC News**
url: <http://www.nbcnews.com/business/markets/president-trump-dow-20k-i-m-very-proud-n712436>
Doc ID: /Users/ShobhitAgarwal/Downloads/NBCNewsData/NBCNewsDownloadData/6931aa4a-3275-42d4-8075-73ee419a1d4e.html
Short Description: President Donald Trump weighed in on the Dow Jones industrial average reaching the 20,000 milestone, saying he was "very proud."
6. **Dow, S&P Close at All-Time Highs for 12th Time Since Election Day - NBC News**
url: <http://www.nbcnews.com/business/markets/dow-s-p-close-all-time-highs-12th-time-election-n693311>
Doc ID: /Users/ShobhitAgarwal/Downloads/NBCNewsData/NBCNewsDownloadData/92b21a9a-49c3-4275-ah92-2c17c6ef3522.html
Short Description: U.S. equities closed sharply higher on Wednesday as the Dow and S&P hit new record highs.
7. **Dow Breaks Above 19,000, S&P Jumps Over 2,200 as Stocks Hit Record Highs - NBC News**
url: <http://www.nbcnews.com/business/markets/dow-breaks-above-19-000-s-p-jumps-over-2-n687161>
Doc ID: /Users/ShobhitAgarwal/Downloads/NBCNewsData/NBCNewsDownloadData/92f16f45-b494-4494-9c6e-6eb420bf96b0.html
Short Description: U.S. equities hit new all-time highs Tuesday as investors awaited housing data and kept an eye on President-elect Donald Trump's policy agenda.
8. **Dow Closes Above 19,000 as Stocks Notch Record Closing Highs - NBC News**
url: <http://www.nbcnews.com/business/markets/dow-closes-above-19-000-stocks-notch-record-closing-highs-n687341>
Doc ID: /Users/ShobhitAgarwal/Downloads/NBCNewsData/NBCNewsDownloadData/801de5e3-3c70-46f5-9854-2090c366d8b.html

PageRank:

1. <http://www.nbcnews.com/>
2. <http://www.nbcnews.com/watch/nightly-news/crashes-cast-doubt-on-safety-of-navy-s-sea-dragon-helicopter-392634435789>
3. <http://www.nbcnews.com/watch/nightly-news/how-safe-is-the-artificial-turf-on-your-childs-sports-field-339230787933>
4. <http://www.nbcnews.com/watch/nightly-news/does-artificial-turf-present-a-health-risk-339753027899>
5. <http://www.nbcnews.com/business/>
6. <http://www.nbcnews.com/watch/nbc-news-channel/families-file-lawsuits-against-aaron-hernandez-174872131586>
7. <http://www.nbcnews.com/watch/nbcnews-com/aaron-hernandez-101-what-to-know-about-the-case-s-381761091862>
8. <http://www.nbcnews.com/watch/nbc-news-channel/aaron-hernandez-involved-in-jailhouse-fight-171448899948>
9. <http://www.nbcnews.com/watch/nbc-news/hernandez-charged-with-2-counts-of-murder-in-2012-case-256748611539>
10. <http://www.nbcnews.com/watch/30-seconds-to-know/why-european-forecasts-are-generally-more-accurate-535119427557>

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PHP Solr Indexing and Search x

localhost/solrhw4.php?q=NASDAQ&pagerank=pageRank

Search: NASDAQ
 Use Lucene Solr Algorithm Use Page Rank Algorithm

Results 1 - 10 of 77:

1. NBC News - Breaking News & Top Stories - Latest World, US & Local News
[url: http://www.nbcnews.com/](http://www.nbcnews.com/)
Doc ID: /Users/ShobhitAgarwal/Downloads/NBCNewsData/NBCNewsDownloadData/5b4f205d-1956-4b8b-adc0-abfb86883f81.html
Short Description: Go to NBCNews.com for breaking news, videos, and the latest top stories in world news, business, politics, health and pop culture.
2. Crashes Cast Doubt on Safety of Navy's Sea Dragon Helicopter - NBC News
[url: http://www.nbcnews.com/watch/nightly-news/crashes-cast-doubt-on-safety-of-navy-s-sea-dragon-helicopter-392634435789](http://www.nbcnews.com/watch/nightly-news/crashes-cast-doubt-on-safety-of-navy-s-sea-dragon-helicopter-392634435789)
Doc ID: /Users/ShobhitAgarwal/Downloads/NBCNewsData/NBCNewsDownloadData/35ac79f4-2a62-4992-b0b7-c778298e0b52.html
Short Description: The Sea Dragon, the only Navy helicopter that can perform underwater mine sweeping, is three times more likely to crash than any other Navy aircraft.
3. How Safe is the Artificial Turf on Your Child's Sports Field? - NBC News
[url: http://www.nbcnews.com/watch/nightly-news/how-safe-is-the-artificial-turf-on-your-childs-sports-field-339230787933](http://www.nbcnews.com/watch/nightly-news/how-safe-is-the-artificial-turf-on-your-childs-sports-field-339230787933)
Doc ID: /Users/ShobhitAgarwal/Downloads/NBCNewsData/NBCNewsDownloadData/d4d7892c-dd51-4f18-abe8-bdd1a3870a19.html
Short Description: The industry and others say the turf is safe, but one coach found a terrible coincidence between artificial turf and several soccer players.
4. Does Artificial Turf Present a Health Risk? - NBC News
[url: http://www.nbcnews.com/watch/nightly-news/does-artificial-turf-present-a-health-risk-339753027899](http://www.nbcnews.com/watch/nightly-news/does-artificial-turf-present-a-health-risk-339753027899)
Doc ID: /Users/ShobhitAgarwal/Downloads/NBCNewsData/NBCNewsDownloadData/ae0e9652-7749-4207-b5d1-03d0149b4ee6.html
Short Description: An NBC investigation on artificial turf and
5. Business, Money, Market, & Personal Finance News & Trends - NBC News
[url: http://www.nbcnews.com/business/](http://www.nbcnews.com/business/)
Doc ID: /Users/ShobhitAgarwal/Downloads/NBCNewsData/NBCNewsDownloadData/8b1859e6-33c0-4ea4-801e-122154a17e3d.html
Short Description: Find the latest business news articles, photos and videos covering the economy, personal finance, financial markets and more on NBCNews.com.
6. Families File Lawsuits Against Aaron Hernandez - NBC News
[url: http://www.nbcnews.com/watch/nbc-news-channel/families-file-lawsuits-against-aaron-hernandez-174872131586](http://www.nbcnews.com/watch/nbc-news-channel/families-file-lawsuits-against-aaron-hernandez-174872131586)
Doc ID: /Users/ShobhitAgarwal/Downloads/NBCNewsData/NBCNewsDownloadData/5125c2cc-e0cf-4b73-a8ca-0f9727b48aba.html
Short Description: Two Massachusetts families have filed multi-million dollar civil lawsuits against former NFL player Aaron Hernandez in connection with the murder of two men ...
7. Aaron Hernandez 101: What to Know About the Case(s) - NBC News
[url: http://www.nbcnews.com/watch/nbc-news-channel/aaron-hernandez-101-what-to-know-about-the-case-s-381761091862](http://www.nbcnews.com/watch/nbc-news-channel/aaron-hernandez-101-what-to-know-about-the-case-s-381761091862)
Doc ID: /Users/ShobhitAgarwal/Downloads/NBCNewsData/NBCNewsDownloadData/e749e1c1-9f57-4f89-ab7e-370d9e84b099.html
Short Description: The former NFL star's murder trial starts today. Here's a primer on Hernandez, the case, and how long he faces in prison.
8. Aaron Hernandez involved in Jailhouse fight - NBC News
[url: http://www.nbcnews.com/watch/nbc-news-channel/aaron-hernandez-involved-in-jailhouse-fight-171448899948](http://www.nbcnews.com/watch/nbc-news-channel/aaron-hernandez-involved-in-jailhouse-fight-171448899948)
Doc ID: /Users/ShobhitAgarwal/Downloads/NBCNewsData/NBCNewsDownloadData/d9fad48-237a-47af-8232-70901c4608be.html

Overlap: 0

NBA

Solr:

1. <http://www.nbcnews.com/feature/nbc-out/op-ed-nba-all-star-n602511>
2. <http://www.nbcnews.com/news/us-news/nba-star-s-low-key-activism-sign-times-n609226>
3. <http://www.nbcnews.com/feature/nbc-out/nba-all-star-game-spotlights-lgbtq-oasis-south-n720976>
4. <http://www.nbcnews.com/feature/nbc-out/amp/nba-all-star-game-spotlights-lgbtq-oasis-south-n720976>
5. <http://www.nbcnews.com/news/us-news/amp/charles-oakley-arrest-why-was-basketball-legend-dragged-out-arena-n718756>
6. <http://www.nbcnews.com/news/us-news/charles-oakley-arrest-why-was-basketball-legend-dragged-out-arena-n718756>
7. <http://www.nbcnews.com/meet-the-press/amp/meet-press-transcript-april-27-2014-n90776>
8. <http://www.nbcnews.com/news/sports/charles-oakley-arrest-security-chief-fired-after-knicks-icon-thrown-n719511>
9. <http://www.nbcnews.com/meet-the-press/meet-press-transcript-april-27-2014-n90776>
10. <http://www.nbcnews.com/storyline/aaron-hernandez/amp/players-turned-prisoners-ex-pro-athletes-who-are-behind-bars-n342056>

Chrome File Edit View History Bookmarks People Window Help

PHP Solr Indexing and Search x

localhost/solriw4.php?q=NBA&pagerank=lucene

Search: NBA
 Use Lucene Solr Algorithm Use Page Rank Algorithm

Results 1 - 10 of 321:

1. [Op-Ed: NBA Must Play 'Hardball' With North Carolina Over HB2 - NBC News](http://www.nbcnews.com/feature/nbc-out/op-ed-nba-all-star-n602511)
 url: <http://www.nbcnews.com/feature/nbc-out/op-ed-nba-all-star-n602511>
 Doc ID: /Users/ShobhitAgarwal/Downloads/NBCNewsData/NBCNewsDownloadData/2d79f0ea-4ccf-4bd7-be75-26d64a67fee8.html
 Short Description: It's time for the NBA, which is holding its 2017 All-Star Game in Charlotte, to play "hardball" with North Carolina over the HB2 "bathroom bill," according to sports journalist Jason Page.

2. [NBA Star's Low Key Activism Is a Sign of the Times - NBC News](http://www.nbcnews.com/news/us-news/nba-star-s-low-key-activism-sign-times-n609226)
 url: <http://www.nbcnews.com/news/us-news/nba-star-s-low-key-activism-sign-times-n609226>
 Doc ID: /Users/ShobhitAgarwal/Downloads/NBCNewsData/NBCNewsDownloadData/67d7cbb60-1e63-42d0-bd4d-4a988236c493.html
 Short Description: Carmelo Anthony isn't the showiest of NBA stars, which turns out to suit his modern brand of social activism perfectly.

3. [NBA All-Star Game Spotlights LGBTQ Oasis in the South - NBC News](http://www.nbcnews.com/feature/nbc-out/nba-all-star-game-spotlights-lgbtq-oasis-south-n720976)
 url: <http://www.nbcnews.com/feature/nbc-out/nba-all-star-game-spotlights-lgbtq-oasis-south-n720976>
 Doc ID: /Users/ShobhitAgarwal/Downloads/NBCNewsData/NBCNewsDownloadData/f2d01e8b-5f47-4a93-a2db-dc09b5b6aeb6.html
 Short Description: New Orleans' LGBTQ-inclusiveness will be on full display this weekend in a not-so-subtle statement about equality.

4. [NBA All-Star Game Spotlights LGBTQ Oasis in the South - NBC News](http://www.nbcnews.com/feature/nbc-out/nba-all-star-game-spotlights-lgbtq-oasis-south-n720976)
 url: <http://www.nbcnews.com/feature/nbc-out/nba-all-star-game-spotlights-lgbtq-oasis-south-n720976>
 Doc ID: /Users/ShobhitAgarwal/Downloads/NBCNewsData/NBCNewsDownloadData/23dd7a9a-0edc-429f-8a17-76f6769e9528.html
 Short Description: New Orleans' LGBTQ-inclusiveness will be on full display this weekend in a not-so-subtle statement about equality.

5. [Charles Oakley Arrest: Why Was a Basketball Legend Dragged Out of Arena in Handcuffs? - NBC News](http://www.nbcnews.com/news/us-news/charles-oakley-arrest-why-was-basketball-legends-dragged-out-area-n718756)
 url: <http://www.nbcnews.com/news/us-news/charles-oakley-arrest-why-was-basketball-legends-dragged-out-area-n718756>
 Doc ID: /Users/ShobhitAgarwal/Downloads/NBCNewsData/NBCNewsDownloadData/leb00e96-63fb-469d-a91c-b6b6ca4d724b2.html
 Short Description: The New York Knicks, one of the more storied franchises in the history of the NBA, are in the midst of a season defined more by dysfunction than dominance on the basketball court.

6. [Charles Oakley Arrest: Why Was a Basketball Legend Dragged Out of Arena in Handcuffs? - NBC News](http://www.nbcnews.com/news/us-news/charles-oakley-arrest-why-was-basketball-legends-dragged-out-area-n718756)
 url: <http://www.nbcnews.com/news/us-news/charles-oakley-arrest-why-was-basketball-legends-dragged-out-area-n718756>
 Doc ID: /Users/ShobhitAgarwal/Downloads/NBCNewsData/NBCNewsDownloadData/8923f191-028a-44ad-b09c-e1c59991cd28.html
 Short Description: The New York Knicks, one of the more storied franchises in the history of the NBA, are in the midst of a season defined more by dysfunction than dominance on the basketball court.

7. [Meet the Press Transcript - April 27, 2014 - NBC News](http://www.nbcnews.com/meet-the-press/meet-the-press-transcript-april-27-2014-n90776)
 url: <http://www.nbcnews.com/meet-the-press/meet-the-press-transcript-april-27-2014-n90776>
 Doc ID: /Users/ShobhitAgarwal/Downloads/NBCNewsData/NBCNewsDownloadData/24afc01-1665-4e74-9b1a-87a343ad3e4d.html
 Short Description: DAVID GREGORY: On Meet the Press this morning, a developing story, President Obama has reacted strongly to another racial flashpoint in this country.

8. [Former Knicks Star Charles Oakley Banned From Madison Square Garden After Fracas: Dolan - NBC News](http://www.nbcnews.com/news/sports/charles-oakley-arrest-security-chief-fired-after-knicks-icon-thrown-n719511)
 url: <http://www.nbcnews.com/news/sports/charles-oakley-arrest-security-chief-fired-after-knicks-icon-thrown-n719511>
 Doc ID: /Users/ShobhitAgarwal/Downloads/NBCNewsData/NBCNewsDownloadData/b8a4e7d0-1070-484f-bc35-315f04beaff.html

PageRank:

1. <http://www.nbcnews.com/>
2. <http://www.nbcnews.com/news/nbcblk>
3. <http://www.nbcnews.com/feature/nbc-out>
4. <http://www.nbcnews.com/feature/flashback>
5. <http://www.nbcnews.com/feature/nbc-out/valentine-s-day-petition-asks-congress-ban-same-sex-marriage-n720661>
6. <http://www.nbcnews.com/news/sports>
7. <http://www.nbcnews.com/feature/nbc-out/brazilian-transgender-model-graces-cover-french-vogue-n720776>
8. <http://www.nbcnews.com/feature/nbc-out/gavin-grimmeet-boy-laverne-cox-shouted-out-grammys-n720126>
9. <http://www.nbcnews.com/business/business-news/ballet-dancer-misty-copeland-not-point-under-armour-s-praise-n719046>
10. <http://www.nbcnews.com/feature/nbc-out/film-review-tom-finland-biopic-smoothly-executed-n720306>

Search: NBA
 Use Lucene Solr Algorithm Use Page Rank Algorithm

Results 1 - 10 of 321:

- NBC News - Breaking News & Top Stories - Latest World, US & Local News**
[url: http://www.nbcnews.com/](http://www.nbcnews.com/)
Doc ID: /Users/ShobhitAgarwal/Downloads/NBCNewsData/NBCNewsDownloadData/5b4f205d-1956-4b8b-adc0-abfb86883f81.html
Short Description: Go to NBCNews.com for breaking news, videos, and the latest top stories in world news, business, politics, health and pop culture.
- NBCBLK: Black Community News, Information, Culture & More - NBC News**
[url: http://www.nbcnews.com/news/nbcblk](http://www.nbcnews.com/news/nbcblk)
Doc ID: /Users/ShobhitAgarwal/Downloads/NBCNewsData/NBCNewsDownloadData/963f0e3b-dff7-4c77-b532-ad2bd3357bef.html
Short Description: Find the latest news articles, photos, and videos covering stories, issues, and opinions of the Black community on NBCNews.com.
- NBC OUT: LGBT Community News, Culture & More - NBC News**
[url: http://www.nbcnews.com/feature/nbc-out](http://www.nbcnews.com/feature/nbc-out)
Doc ID: /Users/ShobhitAgarwal/Downloads/NBCNewsData/NBCNewsDownloadData/bfc1cda-95c9-4ed2-85ac-2a710e534e08.html
Short Description: Find the latest LGBT news articles, photos and videos covering stories, issues and opinions of the LGBT community.
- Flashback - Breaking News & Top Stories - NBC News**
[url: http://www.nbcnews.com/feature/flashback](http://www.nbcnews.com/feature/flashback)
Doc ID: /Users/ShobhitAgarwal/Downloads/NBCNewsData/NBCNewsDownloadData/824be3ec-0389-4e12-b6e7-5ccce84d445b.html
Short Description: Go to NBCNews.com for the latest Flashback news, photos and video.
- Valentine's Day Petition Asks Congress to Ban Same-Sex Marriage - NBC News**
[url: http://www.nbcnews.com/feature/nbc-out/valentine-s-day-petition-asks-congress-ban-same-sex-marriage-n720661](http://www.nbcnews.com/feature/nbc-out/valentine-s-day-petition-asks-congress-ban-same-sex-marriage-n720661)
Doc ID: /Users/ShobhitAgarwal/Downloads/NBCNewsData/NBCNewsDownloadData/1ba95525-7331-4160-a3c3-d758ea0c198c.html
Short Description: An Arkansas Republican is asking Congress to amend the Constitution to define marriage as a heterosexual institution. He may stand a chance.
- Sports News - Breaking News & Top Stories - NBC News**
[url: http://www.nbcnews.com/news/sports](http://www.nbcnews.com/news/sports)
Doc ID: /Users/ShobhitAgarwal/Downloads/NBCNewsData/NBCNewsDownloadData/66156dd0-3230-4a6c-a952-9351b7889df8.html
Short Description: Go to NBCNews.com for the latest sports news, photos and video.
- Transgender Model Valentina Sampaio Graces Cover of French Vogue - NBC News**
[url: http://www.nbcnews.com/feature/nbc-out/brazilian-transgender-model-graces-cover-french-vogue-n720776](http://www.nbcnews.com/feature/nbc-out/brazilian-transgender-model-graces-cover-french-vogue-n720776)
Doc ID: /Users/ShobhitAgarwal/Downloads/NBCNewsData/NBCNewsDownloadData/1f9ac5e4-d876-4327-8e40-79e2fb0f3af.html
Short Description: Brazil native Valentina Sampaio is the first transgender model to grace the cover of Vogue Paris.
- Gavin Grimm: Meet the Boy Laverne Cox Shouted Out at the Grammys - NBC News**
[url: http://www.nbcnews.com/feature/nbc-out/gavin-grimmeet-boy-laverne-cox-shouted-out-grammys-n720126](http://www.nbcnews.com/feature/nbc-out/gavin-grimmeet-boy-laverne-cox-shouted-out-grammys-n720126)
Doc ID: /Users/ShobhitAgarwal/Downloads/NBCNewsData/NBCNewsDownloadData/b2e82089-acab-4ae5-afe8-fcb792251047.html

Overlap: 0

Snapshot

Solr:

1. <http://www.nbcnews.com/feature/college-game-plan/amp/colleges-use-snapchat-attract-prospective-students-n570701>
2. <http://www.nbcnews.com/tech/tech-news/snapchat-launches-video-sunglasses-becomes-snap-inc-n653846>
3. <http://www.nbcnews.com/tech/tech-news/amp/will-wall-street-love-snapchat-much-millennials-n715401>
4. <http://www.nbcnews.com/feature/college-game-plan/colleges-use-snapchat-attract-prospective-students-n570701>
5. <http://www.nbcnews.com/tech/tech-news/will-wall-street-love-snapchat-much-millennials-n715401>
6. <http://www.nbcnews.com/news/nbcblk/michelle-obama-joins-snapchat-michelleobama-n596581>
7. <http://www.nbcnews.com/news/latino/mit-snapchat-discover-team-reach-multicultural-latino-n695386>
8. <http://www.nbcnews.com/news/latino/amp/mit-snapchat-discover-team-reach-multicultural-latino-n695386>
9. <http://www.nbcnews.com/news/nbcblk/amp/michelle-obama-joins-snapchat-michelleobama-n596581>
10. <http://www.nbcnews.com/tech/social-media/snapchat-speed-filter-led-georgia-car-crash-lawsuit-alleges-n563616>

Chrome File Edit View History Bookmarks People Window Help

PHP Solr Indexing and Search x

localhost/solriw4.php?q=Snapchat&pageRank=lucene

Search: Snapchat

Use Lucene Solr Algorithm Use Page Rank Algorithm

Submit

Results 1 - 10 of 233:

1. **Colleges Use Snapchat to Attract Prospective Students - NBC News**
url: <http://www.nbcnews.com/feature/college-game-plan/colleges-use-snapchat-attract-prospective-students-n570701>
Doc ID: /Users/ShobhitAgarwal/Downloads/NBCNewsData/NBCNewsDownloadData/d7f88191-453c-4cc1-8cad-25e9f2541bd0.html
Short Description: From reaching prospective students to fostering school spirit, universities are using Snapchat as a marketing tool.
2. **Snapchat Launches Video Sunglasses and Becomes Snap Inc. - NBC News**
url: <http://www.nbcnews.com/tech/tech-news/snapchat-launches-video-sunglasses-becomes-snap-inc-n653846>
Doc ID: /Users/ShobhitAgarwal/Downloads/NBCNewsData/NBCNewsDownloadData/af7031ce-74bc-4f88-81f4-84056b26206b.html
Short Description: Snapchat will launch Spectacles, \$130 video sunglasses that can record and upload 10-second clips to social sites.
3. **Snap Goes Public: Wall Street Prepares for Tech's Biggest IPO Since Facebook - NBC News**
url: <http://www.nbcnews.com/tech/tech-news/will-wall-street-love-snapchat-much-millennials-n715401>
Doc ID: /Users/ShobhitAgarwal/Downloads/NBCNewsData/NBCNewsDownloadData/a10ab0ed-e53d-4b4f-8508-cfbdf1577ad32.html
Short Description: Snap, the company behind Snapchat and Spectacles, filed its initial public offering today.
4. **Colleges Use Snapchat to Attract Prospective Students - NBC News**
url: <http://www.nbcnews.com/feature/college-game-plan/colleges-use-snapchat-attract-prospective-students-n570701>
Doc ID: /Users/ShobhitAgarwal/Downloads/NBCNewsData/NBCNewsDownloadData/a4c6131e-e962-4d9b-8808-649ca9030de7.html
Short Description: From reaching prospective students to fostering school spirit, universities are using Snapchat as a marketing tool.
5. **Snap Goes Public: Wall Street Prepares for Tech's Biggest IPO Since Facebook - NBC News**
url: <http://www.nbcnews.com/tech/tech-news/will-wall-street-love-snapchat-much-millennials-n715401>
Doc ID: /Users/ShobhitAgarwal/Downloads/NBCNewsData/NBCNewsDownloadData/ac902771-644d-4027-93ee-39fdb5ff8a4b.html
Short Description: Snap, the company behind Snapchat and Spectacles, filed its initial public offering today.
6. **Michelle Obama Joins Snapchat as 'MichelleObama' - NBC News**
url: <http://www.nbcnews.com/news/nbcblk/michelle-obama-joins-snapchat-michelleobama-n596581>
Doc ID: /Users/ShobhitAgarwal/Downloads/NBCNewsData/NBCNewsDownloadData/a431a5d1-ec3c-4c7d-9f29-faa727fa76d8.html
Short Description: Michelle Obama joined Snapchat on Tuesday to promote her upcoming trip to Liberia, Morocco and Spain to encourage education for girls.
7. **mit[❖], Snapchat Discover Team Up to Reach Multicultural Latinos - NBC News**
url: <http://www.nbcnews.com/news/latino/mit-snapchat-discover-team-reach-multicultural-latinos-n695386>
Doc ID: /Users/ShobhitAgarwal/Downloads/NBCNewsData/NBCNewsDownloadData/e0c17f48-c22b-4399-996a-faab4ea3c087.html
Short Description: If you have Snapchat on your smartphone you can now view mit[❖] articles, videos, animations and photos on the Discover feature daily.
8. **mit[❖], Snapchat Discover Team Up to Reach Multicultural Latinos - NBC News**
url: <http://www.nbcnews.com/news/latino/mit-snapchat-discover-team-reach-multicultural-latinos-n695386>
Doc ID: /Users/ShobhitAgarwal/Downloads/NBCNewsData/NBCNewsDownloadData/e63b1d46-2084-4634-8b59-76c7487ab9a0.html

PageRank:

1. <http://www.nbcnews.com/mach/technology>
2. <http://www.nbcnews.com/tech/social-media>
3. <http://www.nbcnews.com/tech/tech-news>
4. <http://www.nbcnews.com/tech/social-media/facebook-s-13th-birthday-look-back-key-milestones-n716526>
5. <http://www.nbcnews.com/mach/technology/deep-learning-predicts-future-n690851>
6. <http://www.nbcnews.com/storyline/san-bernardino-shooting/border-patrol-s-social-media-proposal-comes-under-fire-n602671>
7. <http://www.nbcnews.com/mach/technology/how-satellites-might-help-save-humpback-whale-n718326>
8. <http://www.nbcnews.com/tech/social-media/president-donald-trump-good-twitter-s-bottom-line-n718896>
9. <http://www.nbcnews.com/mach/technology/will-trump-tech-be-disaster-some-people-have-predicted-n684871>
10. <http://www.nbcnews.com/mach/technology/could-person-take-down-internet-n684096>

Chrome File Edit View History Bookmarks People Window Help

PHP Solr Indexing and Search x

localhost/solriw4.php?q=Snapchat&pagerank=pageRank

Search: Snapchat

Use Lucene Solr Algorithm Use Page Rank Algorithm

Submit

Results 1 - 10 of 233:

1. Technology - NBC News
 url: <http://www.nbcnews.com/mach/technology>
 Doc ID: /Users/ShobhitAgarwal/Downloads/NBCNewsData/NBCNewsDownloadData/2c456792-7f88-4b20-8128-0843660a0267.html
 Short Description: Technology

2. Social Media News: Facebook, Instagram, Snapchat, Twitter & More - NBC News
 url: <http://www.nbcnews.com/tech/social-media>
 Doc ID: /Users/ShobhitAgarwal/Downloads/NBCNewsData/NBCNewsDownloadData/b510c49b-c9ad-4459-accb-c6bfe2221389.html
 Short Description: Social Media

3. Tech News: Latest News and Updates on Silicon Valley, the Internet & More - NBC News
 url: <http://www.nbcnews.com/tech/tech-news>
 Doc ID: /Users/ShobhitAgarwal/Downloads/NBCNewsData/NBCNewsDownloadData/a52e857a-3c6b-4ddf-850b-551989619f9b.html
 Short Description: Tech News

4. On Facebook's 13th Birthday, A Look Back at Key Milestones - NBC News
 url: <http://www.nbcnews.com/tech/social-media/facebook-s-13th-birthday-look-back-key-milestones-n716526>
 Doc ID: /Users/ShobhitAgarwal/Downloads/NBCNewsData/NBCNewsDownloadData/283132e5-1845-45b6-9501-baaf90a3120f.html
 Short Description: Facebook is officially a teenager!

5. Deep Learning: Teaching Computers to Predict the Future - NBC News
 url: <http://www.nbcnews.com/mach/technology/deep-learning-predicts-future-n690851>
 Doc ID: /Users/ShobhitAgarwal/Downloads/NBCNewsData/NBCNewsDownloadData/7d6b8eca-a7e0-42c9-b7de-ecc9a3cc85f7.html
 Short Description: MIT's latest AI research can actually create videos of the future, and might one day let computers make diagnoses from medical images, detect bank fraud, and operate vehicles better than humans.

6. Border Protection's Social Media Proposal Comes Under Fire - NBC News
 url: <http://www.nbcnews.com/storyline/san-bernardino-shooting/border-patrol-s-social-media-proposal-comes-under-fire-n602671>
 Doc ID: /Users/ShobhitAgarwal/Downloads/NBCNewsData/NBCNewsDownloadData/3316704a-8283-435f-a5a3-117cd8fd8413.html
 Short Description: A controversial federal proposal to ask people visiting the country under the visa waiver program for their social media handles has come under fire.

7. How Satellites Might Help Save the Whales - NBC News
 url: <http://www.nbcnews.com/mach/technology/how-satellites-might-help-save-humpback-whale-n718326>
 Doc ID: /Users/ShobhitAgarwal/Downloads/NBCNewsData/NBCNewsDownloadData/9077bd09-b9ce-43b8-85dc-4781ef129b2d.html
 Short Description: Whale populations have always been hard to monitor, but these new satellites will help scientists keep track of them from space.

8. Is President Donald Trump Good For Twitter's Bottom Line? - NBC News
 url: <http://www.nbcnews.com/tech/social-media/president-donald-trump-good-twitter-s-bottom-line-n718896>

Overlap: 0

Illegal Immigration

Solr:

1. <http://www.nbcnews.com/storyline/immigration-border-crisis/amp/illegal-immigration-changing-border-security-still-catching-n667916>
2. <http://www.nbcnews.com/storyline/immigration-border-crisis/illegal-immigration-changing-border-security-still-catching-n667916>
3. <http://www.nbcnews.com/news/us-news/amp/trump-signs-executive-orders-aimed-cracking-down-illegal-immigration-n712096>
4. <http://www.nbcnews.com/news/us-news/trump-signs-executive-orders-aimed-cracking-down-illegal-immigration-n712096>
5. <http://www.nbcnews.com/politics/politics-news/white-house-outlines-plans-crack-down-illegal-immigration-n712126>
6. <http://www.nbcnews.com/storyline/immigration-border-crisis/amp/maritime-border-more-haitians-cubans-risk-their-lives-sea-n173021>
7. <http://www.nbcnews.com/politics/immigration/amp/trump-orders-could-deport-millions-build-wall-it-won-t-n712301>
8. <http://www.nbcnews.com/storyline/immigration-border-crisis/maritime-border-more-haitians-cubans-risk-their-lives-sea-n173021>
9. <http://www.nbcnews.com/politics/2016-election/trump-transition-team-filled-hardline-anti-immigration-advocates-n682651>
10. <http://www.nbcnews.com/storyline/immigration-border-crisis/amp/arizona-residents-protest-arrival-undocumented-immigrant-children-n155941>

Chrome File Edit View History Bookmarks People Window Help

PHP Solr Indexing and Search x

localhost/solr/nw4.php?q=illegal+Immigration&pagerank=ucene

Search: Illegal Immigration
 Use Lucene Solr Algorithm Use Page Rank Algorhthm

Results 1 - 10 of 8375:

1. [Illegal Immigration Is Changing, Border Security Is Still Catching Up - NBC News](http://www.nbcnews.com/storyline/immigration-border-crisis/illegal-immigration-changing-border-security-still-catching-n667916)
url: <http://www.nbcnews.com/storyline/immigration-border-crisis/illegal-immigration-changing-border-security-still-catching-n667916>
Doc ID: /Users/ShobhitAgarwal/Downloads/NBCNewsData/NBCNewsDownloadData/2c42b257-1f91-4ea-e-8cc5-0f41effbec29.html
Short Description: No matter how much border security is increased, the United States has a legal obligation to accept migrants who come seeking asylum.

2. [Illegal Immigration Is Changing, Border Security Is Still Catching Up - NBC News](http://www.nbcnews.com/storyline/immigration-border-crisis/illegal-immigration-changing-border-security-still-catching-n667916)
url: <http://www.nbcnews.com/storyline/immigration-border-crisis/illegal-immigration-changing-border-security-still-catching-n667916>
Doc ID: /Users/ShobhitAgarwal/Downloads/NBCNewsData/NBCNewsDownloadData/e3b63512-487a-42e8-bf3-971a1afab644d.html
Short Description: No matter how much border security is increased, the United States has a legal obligation to accept migrants who come seeking asylum.

3. [Trump Signs Executive Orders Aimed at Cracking Down on Illegal Immigration - NBC News](http://www.nbcnews.com/news/us-news/trump-signs-executive-orders-aimed-cracking-down-illegal-immigration-n712096)
url: <http://www.nbcnews.com/news/us-news/trump-signs-executive-orders-aimed-cracking-down-illegal-immigration-n712096>
Doc ID: /Users/ShobhitAgarwal/Downloads/NBCNewsData/NBCNewsDownloadData/25b8a702-17f0-4cf-9d9b-8c347dc2b066.html
Short Description: Trump said his aim was to keep the nation safe and end 'one injustice after another' for the families of Americans killed by undocumented immigrants.

4. [Trump Signs Executive Orders Aimed at Cracking Down on Illegal Immigration - NBC News](http://www.nbcnews.com/news/us-news/trump-signs-executive-orders-aimed-cracking-down-illegal-immigration-n712096)
url: <http://www.nbcnews.com/news/us-news/trump-signs-executive-orders-aimed-cracking-down-illegal-immigration-n712096>
Doc ID: /Users/ShobhitAgarwal/Downloads/NBCNewsData/NBCNewsDownloadData/d27d0384-616a-4588-a26-a21e0b5be5d1.html
Short Description: Trump said his aim was to keep the nation safe and end 'one injustice after another' for the families of Americans killed by undocumented immigrants.

5. [White House Outlines Plans to Crack Down on Illegal Immigration - NBC News](http://www.nbcnews.com/politics/news/white-house-outlines-plans-crack-down-illegal-immigration-n712096)
url: <http://www.nbcnews.com/politics/news/white-house-outlines-plans-crack-down-illegal-immigration-n712096>
Doc ID: /Users/ShobhitAgarwal/Downloads/NBCNewsData/NBCNewsDownloadData/70298026-cb94-4740-81aa-a5ce9c45b38e.html
Short Description: White House press secretary Sean Spicer said Wednesday the details of how a wall on the U.S.-Mexican border will be paid for have yet to be worked out

6. [The Maritime Border: More Haitians and Cubans Risk Their Lives at Sea - NBC News](http://www.nbcnews.com/storyline/immigration-border-crisis/maritime-border-more-haitians-cubans-risk-their-lives-sea-n173021)
url: <http://www.nbcnews.com/storyline/immigration-border-crisis/maritime-border-more-haitians-cubans-risk-their-lives-sea-n173021>
Doc ID: /Users/ShobhitAgarwal/Downloads/NBCNewsData/NBCNewsDownloadData/e1fb199-b5e3-4413-9b88-ce733a94ba2.html
Short Description: Apprehension of illegal migrants from island nations at five-year high because of aggressive smugglers and Raul Castro's relaxed travel restrictions.

7. [Trump Orders Could Deport Millions, Build Wall, but It Won't Be Easy - NBC News](http://www.nbcnews.com/politics/immigration/trump-orders-could-deport-millions-build-wall-it-won-t-n712301)
url: <http://www.nbcnews.com/politics/immigration/trump-orders-could-deport-millions-build-wall-it-won-t-n712301>
Doc ID: /Users/ShobhitAgarwal/Downloads/NBCNewsData/NBCNewsDownloadData/a51bc697-8d5f-41f0-8cf0-0c103cecdca5.html
Short Description: President Donald Trump's executive orders to build a wall and crack down on illegal immigration could have explosive policy implications, experts say.

8. [The Maritime Border: More Haitians and Cubans Risk Their Lives at Sea - NBC News](http://www.nbcnews.com/storyline/immigration-border-crisis/maritime-border-more-haitians-cubans-risk-their-lives-sea-n173021)
url: <http://www.nbcnews.com/storyline/immigration-border-crisis/maritime-border-more-haitians-cubans-risk-their-lives-sea-n173021>
Doc ID: /Users/ShobhitAgarwal/Downloads/NBCNewsData/NBCNewsDownloadData/29763Sec-dda2-40ca-85b9-632114a1760f.html

PageRank:

1. <http://www.nbcnews.com/>
2. <http://www.nbcnews.com/pages/terms-of-service>
3. <http://www.nbcnews.com/health>
4. <http://www.nbcnews.com/science>
5. <http://www.nbcnews.com/news/latino>
6. <http://www.nbcnews.com/news/us-news>
7. <http://www.nbcnews.com/news/asian-america>
8. <http://www.nbcnews.com/politics>
9. <http://www.nbcnews.com/meet-the-press>
10. <http://www.nbcnews.com/tech>

Search: Illegal Immigration
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Results 1 - 10 of 8375:

1. NBC News - Breaking News & Top Stories - Latest World, US & Local News
[url: http://www.nbcnews.com/](http://www.nbcnews.com/)
Doc ID: /Users/ShobhitAgarwal/Downloads/NBCNewsData/NBCNewsDownloadData/5b4f205d-1956-4b8b-adc0-abfb86883f81.html
Short Description: Go to NBCNews.com for breaking news, videos, and the latest top stories in world news, business, politics, health and pop culture.
2. NBC News - Breaking News & Top Stories - Latest World, US & Local News - NBC News
[url: http://www.nbcnews.com/pages/terms-of-service](http://www.nbcnews.com/pages/terms-of-service)
Doc ID: /Users/ShobhitAgarwal/Downloads/NBCNewsData/NBCNewsDownloadData/5730614b-e0d9-4b59-b376-d581341ab3a1.html
Short Description: Go to NBCNews.com for breaking news, videos, and the latest top stories in world news, business, politics, health and pop culture.
3. Health News: Disease, Nutrition, Healthcare & More - NBC News
[url: http://www.nbcnews.com/health](http://www.nbcnews.com/health)
Doc ID: /Users/ShobhitAgarwal/Downloads/NBCNewsData/NBCNewsDownloadData/7179303f-100e-4015-b10f-c8616189b6a4.html
Short Description: Find the latest news on food & diet, healthcare and healthy living on NBCNews.com. Read headlines and watch videos on medicine, mental illness, and more.
4. Science: Space, Environment & Trends - NBC News
[url: http://www.nbcnews.com/science](http://www.nbcnews.com/science)
Doc ID: /Users/ShobhitAgarwal/Downloads/NBCNewsData/NBCNewsDownloadData/5cf8710-4f3a-491d-b1bf-36eff9d319f9.html
Short Description: Find the latest science news articles, photos and videos covering space, the environment, human development and more on NBCNews.com.
5. Latino Community News, Issues & Top Stories - NBC News
[url: http://www.nbcnews.com/news/latino](http://www.nbcnews.com/news/latino)
Doc ID: /Users/ShobhitAgarwal/Downloads/NBCNewsData/NBCNewsDownloadData/7ebdc5ca-a505-48cb-8fc1-ae8dad969d37.html
Short Description: Find the latest news articles, photos and videos covering issues and opinions of the Latino community on NBC News.com.
6. U.S. News: Current Events & Latest National News Stories - NBC News
[url: http://www.nbcnews.com/news/us-news](http://www.nbcnews.com/news/us-news)
Doc ID: /Users/ShobhitAgarwal/Downloads/NBCNewsData/NBCNewsDownloadData/9163cdba-a2d9-4bc9-8bf5-f74a97147543.html
Short Description: The latest U.S. news articles, photos and videos. Find breaking news headlines from across America on NBCNews.com
7. Asian America: Community News, Information, Culture & More - NBC News
[url: http://www.nbcnews.com/news/asian-america](http://www.nbcnews.com/news/asian-america)
Doc ID: /Users/ShobhitAgarwal/Downloads/NBCNewsData/NBCNewsDownloadData/fc906fed-5d11-4fc2-af7d-1eb6b7b7e472.html
Short Description: Find the latest Asian American news articles, photos, and videos covering stories, issues, and opinions of the Asian American community on NBCNews.com.
8. Politics: The Latest Political News, Polls & Election Results - NBC News
[url: http://www.nbcnews.com/politics](http://www.nbcnews.com/politics)
Doc ID: /Users/ShobhitAgarwal/Downloads/NBCNewsData/NBCNewsDownloadData/7729f519-cae1-4770-91ee-3ded2fa84222.html

Overlap: 0

Donald Trump

Solr:

1. <http://www.nbcnews.com/politics/donald-trump/trump-tweets-first-100-days-n714911>
2. <http://www.nbcnews.com/politics/2016-election/stump-donald-trumps-presidential-campaign-n453726>
3. <http://www.nbcnews.com/slideshow/donald-trumps-life-pictures-reality-tv-u-s-president-n571196>
4. <http://www.nbcnews.com/slideshow/donald-trumps-life-pictures-reality-tv-gop-nominee-n571196>
5. <http://www.nbcnews.com/politics/2016-election/analysis-vengeful-world-donald-trump-why-it-matters-n671721>
6. <http://www.nbcnews.com/meet-the-press/amp/meet-press-transcript-august-16-2015-n412636>
7. <http://www.nbcnews.com/meet-the-press/amp/meet-press-12-25-16-n707096>
8. <http://www.nbcnews.com/politics/2016-election/donald-trump-s-lawyers-ask-delay-trump-u-trial-n683251>
9. <http://www.nbcnews.com/storyline/data-points/poll-donald-trump-still-leads-gop-field-n490116>
10. <http://www.nbcnews.com/politics/white-house/president-donald-trump-s-first-100-days-major-moments-n709706>

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Results 1 - 10 of 12091:

1. **Trump Tweets: First 100 Days - NBC News**
url: <http://www.nbcnews.com/politics/donald-trump/trump-tweets-first-100-days-n714911>
Doc ID: /Users/ShobhitAgarwal/Downloads/NBCNews/Data/NBCNewsDownloadData/33eb2dbc-3efa-44d5-87ff-12ae64ffcbe0.html
Short Description: Follow what Trump has to say on his favorite social media platform over his first 100 days in office.

2. **On the Stump: Donald Trump's Presidential Campaign - NBC News**
url: <http://www.nbcnews.com/politics/2016-election/stump-donald-trumps-presidential-campaign-n453726>
Doc ID: /Users/ShobhitAgarwal/Downloads/NBCNews/Data/NBCNewsDownloadData/8e7351b7-6999-427a-bf70-7381b52bf199.html
Short Description: See highlights from Donald Trump's campaign for the presidency.

3. **Reality TV to U.S. President: Donald Trump's Road to the White House - NBC News**
url: <http://www.nbcnews.com/slideshow/donald-trumps-life-pictures-reality-tv-u-s-president-n571196>
Doc ID: /Users/ShobhitAgarwal/Downloads/NBCNews/Data/NBCNewsDownloadData/76589e3c-97ef-4f4c-a643-3bfb1420c71d.html
Short Description: Donald Trump's self-promotion, ambition and risk-taking made him a real estate mogul, reality TV star, and now the U.S. President.

4. **Reality TV to U.S. President: Donald Trump's Road to the White House - NBC News**
url: <http://www.nbcnews.com/slideshow/donald-trumps-life-pictures-reality-tv-gop-nominee-n571196>
Doc ID: /Users/ShobhitAgarwal/Downloads/NBCNews/Data/NBCNewsDownloadData/f88826e8-5174-40e0-b999-4efc22adaef5.html
Short Description: Donald Trump's self-promotion, ambition and risk-taking made him a real estate mogul, reality TV star, and now the U.S. President.

5. **Analysis: The Vengeful World of Donald Trump, and Why It Matters - NBC News**
url: <http://www.nbcnews.com/politics/2016-election/analysis/vengeful-world-donald-trump-why-it-matters-n671721>
Doc ID: /Users/ShobhitAgarwal/Downloads/NBCNews/Data/NBCNewsDownloadData/56317d55-8606-475f-9659-2a1fd48a589.html
Short Description: His emphasis on violence and retaliation, especially outside the confines of the law, is unique among modern nominees.

6. **Meet the Press Transcript - August 16, 2015 - NBC News**
url: <http://www.nbcnews.com/meet-the-press/meet-press-transcript-august-16-2015-n412636>
Doc ID: /Users/ShobhitAgarwal/Downloads/NBCNews/Data/NBCNewsDownloadData/2517d47e-70bb-458d-940f-425878123hde.html
Short Description: MEET THE PRESS -- SUNDAY, AUGUST 16, 2015CHUCK TODD: This Sunday, face to face with Donald Trump.CHUCK TODD: Are we on a reality show now?DONALD TRUMP:T

7. **Meet the Press 12/25/16 - NBC News**
url: <http://www.nbcnews.com/meet-the-press/meet-press-12-25-16-n707096>
Doc ID: /Users/ShobhitAgarwal/Downloads/NBCNews/Data/NBCNewsDownloadData/03ed641c-8d2d-4a60-8f06-6ddd9ba18d66.html
Short Description: Joy-Ann Reid, Katy Tur, Hugh Hewitt, Robert Costa

8. **Donald Trump's Lawyers Ask for Delay of 'Trump U' Trial - NBC News**
url: <http://www.nbcnews.com/politics/2016-election/donald-trump-s-lawyers-ask-delay-trump-u-trial-n683251>

www.nbcnews.com/politics/donald-trump/trump-tweets-first-100-days-n714911 NewsDownloadData/61e38367-e9db-4129-b625-7c7859277a30.html

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4. <http://www.nbcnews.com/news/investigations>
5. <http://www.nbcnews.com/news/latino>
6. <http://www.nbcnews.com/news/nbcblk>
7. <http://www.nbcnews.com/news/us-news>
8. <http://www.nbcnews.com/news/asian-america>
9. <http://www.nbcnews.com/news/world>
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localhost/solrhw4.php?q=Donald+Trump&pageRank=pageRank

Search: Donald Trump
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Results 1 - 10 of 12091:

1. NBC News - Breaking News & Top Stories - Latest World, US & Local News
url: <http://www.nbcnews.com/>
Doc ID: /Users/ShobhitAgarwal/Downloads/NBCNewsData/NBCNewsDownloadData/5b4f205d-1956-4b8b-adc0-abfb86883f81.html
Short Description: Go to NBCNews.com for breaking news, videos, and the latest top stories in world news, business, politics, health and pop culture.
2. Health News: Disease, Nutrition, Healthcare & More - NBC News
url: <http://www.nbcnews.com/health>
Doc ID: /Users/ShobhitAgarwal/Downloads/NBCNewsData/NBCNewsDownloadData/7179303f-100e-4015-b10f-e8616189b6a4.html
Short Description: Find the latest news on food & diet, healthcare and healthy living on NBCNews.com. Read headlines and watch videos on medicine, mental illness, and more.
3. Science: Space, Environment & Trends - NBC News
url: <http://www.nbcnews.com/science>
Doc ID: /Users/ShobhitAgarwal/Downloads/NBCNewsData/NBCNewsDownloadData/5cf8710-4f3a-491d-b1bf-36eff9d319f9.html
Short Description: Find the latest science news articles, photos and videos covering space, the environment, human development and more on NBCNews.com.
4. Investigations: U.S. & World News Investigations - NBC News
url: <http://www.nbcnews.com/news/investigations>
Doc ID: /Users/ShobhitAgarwal/Downloads/NBCNewsData/NBCNewsDownloadData/47daadab-0d94-4087-bab6-9ee86a4a42fb.html
Short Description: Find the latest reporting on U.S. and world investigations. View articles, photos and videos covering criminal justice and exposing corruption, scandal and more on NBCNews.com.
5. Latino Community News, Issues & Top Stories - NBC News
url: <http://www.nbcnews.com/news/latino>
Doc ID: /Users/ShobhitAgarwal/Downloads/NBCNewsData/NBCNewsDownloadData/7ebdc5ca-a505-48cb-8fc1-ae8dad969d37.html
Short Description: Find the latest news articles, photos and videos covering issues and opinions of the Latino community on NBC News.com.
6. NBCBLK: Black Community News, Information, Culture & More - NBC News
url: <http://www.nbcnews.com/news/nbcblk>
Doc ID: /Users/ShobhitAgarwal/Downloads/NBCNewsData/NBCNewsDownloadData/963f0e3b-dff7-4c77-b532-ad2bd3357bef.html
Short Description: Find the latest news articles, photos, and videos covering stories, issues, and opinions of the Black community on NBCNews.com.
7. U.S. News: Current Events & Latest National News Stories - NBC News
url: <http://www.nbcnews.com/news/us-news>
Doc ID: /Users/ShobhitAgarwal/Downloads/NBCNewsData/NBCNewsDownloadData/9163cdba-a2d9-4bc9-8bf5-f74a97147543.html
Short Description: The latest U.S. news articles, photos and videos. Find breaking news headlines from across America on NBCNews.com
8. Asian America: Community News, Information, Culture & More - NBC News
url: <http://www.nbcnews.com/news/asian-america>
Doc ID: /Users/ShobhitAgarwal/Downloads/NBCNewsData/NBCNewsDownloadData/fc906fed-5d11-4fc2-af7d-1eb6b7b7e472.html

Overlap: 0

Russia

Solr:

1. <http://www.nbcnews.com/storyline/ukraine-crisis/ukraine-russia-we-cant-pay-3-billion-debt-we-owe-n482371>
2. <http://www.nbcnews.com/storyline/ukraine-crisis/bigger-bite-obama-joins-eu-impose-new-sanctions-russia-n167801>
3. <http://www.nbcnews.com/storyline/ukraine-crisis/joe-biden-russia-cannot-be-allowed-redraw-map-europe-n301486>
4. <http://www.nbcnews.com/storyline/ukraine-crisis/ukrainians-say-they-face-torture-show-trials-russia-n420886>
5. <http://www.nbcnews.com/storyline/ukraine-crisis/u-s-allies-discuss-new-sanctions-russia-over-ukraine-kerry-n310156>
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7. <http://www.nbcnews.com/storyline/ukraine-crisis/russia-has-right-deploy-nuclear-weapons-crimea-official-n321371>
8. <http://www.nbcnews.com/storyline/ukraine-crisis/ukraine-violence-spikes-despite-cease-fire-u-s-russia-trade-n412211>
9. <http://www.nbcnews.com/storyline/ukraine-crisis/payback-russia-gets-hacked-revealing-putin-aide-s-secrets-n673956>
10. <http://www.nbcnews.com/storyline/syria-peace-talks/russia-vetoes-u-n-demand-end-bombing-syria-s-aleppo-n662511>

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Results 1 - 10 of 7612:

- 1. Ukraine to Russia: We Can't Pay \$3 Billion Debt We Owe by the Weekend - NBC News**
url: <http://www.nbcnews.com/storyline/ukraine-crisis/ukraine-russia-we-can't-pay-3-billion-debt-we-owe-n482371>
Doc ID: /Users/ShobhitAgarwal/Downloads/NBCNewsData/NBCNewsDownloadData/b7e88093-ed7b-4751-9503-af2cc8ea814a.html
Short Description: Ukraine faces a looming debt default after the country's finance ministry said Thursday that the country cannot make a \$3 billion debt due to Russia this weekend without violating a debt-restructuring deal with other international creditors. Ukraine, which is supposed to pay down the debt by Sunday, said it is ready to keep negotiating with Russia about...
- 2. 'Bigger Bite': Obama Joins EU to Impose New Sanctions on Russia - NBC News**
url: <http://www.nbcnews.com/storyline/ukraine-crisis/bigger-bite-obama-joins-eu-impose-new-sanctions-russia-n167801>
Doc ID: /Users/ShobhitAgarwal/Downloads/NBCNewsData/NBCNewsDownloadData/36474563-085a-4c2f-9b34-caa1bf29c106.html
Short Description: Isolating Russia is "a choice that Russia and President Putin in particular has made," Obama says.
- 3. Joe Biden: Russia 'Cannot Be Allowed to Redraw the Map of Europe' - NBC News**
url: <http://www.nbcnews.com/storyline/ukraine-crisis/joe-biden-russia-cannot-be-allowed-redraw-map-europe-n301486>
Doc ID: /Users/ShobhitAgarwal/Downloads/NBCNewsData/NBCNewsDownloadData/70fd457d-67cb-4c4f-a5b0-b6f6f99637ea5.html
Short Description: Joe Biden warned Friday that Russia "cannot be allowed to redraw the map of Europe" and that Ukraine was suffering a "military onslaught" from Moscow.
- 4. Ukrainians Say They Face Torture, Show Trials in Russia - NBC News**
url: <http://www.nbcnews.com/storyline/ukraine-crisis/ukrainians-say-they-face-torture-show-trials-russia-n420886>
Doc ID: /Users/ShobhitAgarwal/Downloads/NBCNewsData/NBCNewsDownloadData/28cdb474-34b0-48c4-990c-c423aecd1eeb.html
Short Description: Russia has imprisoned at least 11 Ukrainians in what defendants and rights groups say is a smear campaign aimed at destroying Kiev's image worldwide.
- 5. U.S., Allies Discuss New Sanctions on Russia Over Ukraine: Kerry - NBC News**
url: <http://www.nbcnews.com/storyline/ukraine-crisis/u-s-allies-discuss-new-sanctions-russia-over-ukraine-kerry-n310156>
Doc ID: /Users/ShobhitAgarwal/Downloads/NBCNewsData/NBCNewsDownloadData/3f5af4c4-69cc-4d6c-a727-bc03df2ac247.html
Short Description: Secretary of State John Kerry was in London on Saturday to meet with allies over possible new sanction on Russia.
- 6. Ukraine Puts Army on Alert as Russia Heats Up Crimea Stalemate - NBC News**
url: <http://www.nbcnews.com/storyline/ukraine-crisis/ukraine-puts-army-alert-russia-heats-crimea-stalemate-n628321>
Doc ID: /Users/ShobhitAgarwal/Downloads/NBCNewsData/NBCNewsDownloadData/ad3958bb-6d89-4d2d-b767-ba8819a03985.html
Short Description: Ukraine's president put his army on combat alert Thursday as a war of words between Russia and Ukraine heated up the conflict over annexed Crimea.
- 7. Russia Has Right to Deploy Nuclear Weapons in Crimea: Official - NBC News**
url: <http://www.nbcnews.com/storyline/ukraine-crisis/russia-has-right-deploy-nuclear-weapons-crimea-official-n321371>
Doc ID: /Users/ShobhitAgarwal/Downloads/NBCNewsData/NBCNewsDownloadData/4c821d32-d588-4661-8bf5-931b2cfb29b1.html
Short Description: Russia has the right to deploy nuclear arms in the Black Sea peninsula of Crimea, a Foreign Ministry official reportedly said on Wednesday.
- 8. Ukraine Violence Spikes Despite Cease-Fire; U.S., Russia Trade Barbs - NBC News**
url: <http://www.nbcnews.com/storyline/ukraine-russia-we-can't-pay-3-billion-debt-we-owe-n482371>
Short Description: Ukraine violence spikes despite cease-fire; U.S., Russia trade barbs

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4. <http://www.nbcnews.com/news/world>
5. <http://www.nbcnews.com/politics>
6. <http://www.nbcnews.com/meet-the-press>
7. <http://www.nbcnews.com/news/us-news/nbc-affiliates-n19981>
8. <http://www.nbcnews.com/nightly-news>
9. <http://www.nbcnews.com/dateline>
10. <http://www.nbcnews.com/video>

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1. NBC News - Breaking News & Top Stories - Latest World, US & Local News
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 Doc ID: /Users/ShobhitAgarwal/Downloads/NBCNewsData/NBCNewsDownloadData/5b4f205d-1956-4b8b-adc0-abfb86883f81.html
 Short Description: Go to NBCNews.com for breaking news, videos, and the latest top stories in world news, business, politics, health and pop culture.
2. Investigations: U.S. & World News Investigations - NBC News
 url: <http://www.nbcnews.com/news/investigations>
 Doc ID: /Users/ShobhitAgarwal/Downloads/NBCNewsData/NBCNewsDownloadData/47daadab-0d94-4087-bab6-9ee86a4a42fb.html
 Short Description: Find the latest reporting on U.S. and world investigations. View articles, photos and videos covering criminal justice and exposing corruption, scandal and more on NBCNews.com.
3. U.S. News: Current Events & Latest National News Stories - NBC News
 url: <http://www.nbcnews.com/news/us-news>
 Doc ID: /Users/ShobhitAgarwal/Downloads/NBCNewsData/NBCNewsDownloadData/9163cdba-a2d9-4bc9-8bf5-f74a97147543.html
 Short Description: The latest U.S. news articles, photos and videos. Find breaking news headlines from across America on NBCNews.com
4. World News: The Latest Global News Stories - NBC News
 url: <http://www.nbcnews.com/news/world>
 Doc ID: /Users/ShobhitAgarwal/Downloads/NBCNewsData/NBCNewsDownloadData/f21875da-6d82-4128-881c-d252d4e571ab.html
 Short Description: Find breaking world news articles, photos and videos on NBCNews.com. Read international headlines from the Middle East, Europe, Africa, Asia and more.
5. Politics: The Latest Political News, Polls & Election Results - NBC News
 url: <http://www.nbcnews.com/politics>
 Doc ID: /Users/ShobhitAgarwal/Downloads/NBCNewsData/NBCNewsDownloadData/7729f519-cae1-4770-91ee-3ded2fa84222.html
 Short Description: Find the latest political news articles, photos and videos covering Congress, the White House, Supreme Court, immigration and more on NBCNews.com.
6. Meet the Press: Political News & Interviews with Chuck Todd - NBC News
 url: <http://www.nbcnews.com/meet-the-press>
 Doc ID: /Users/ShobhitAgarwal/Downloads/NBCNewsData/NBCNewsDownloadData/221cbe33-d9d3-4489-be90-dc13d25465c5.html
 Short Description: Political analysis and insights from Chuck Todd. Watch interviews with U.S. and world leaders making headlines. Find full episodes, clips, videos and more.
7. NBC Affiliates - NBC News
 url: <http://www.nbcnews.com/news/us-news/nbc-affiliates-n1998>
 Doc ID: /Users/ShobhitAgarwal/Downloads/NBCNewsData/NBCNewsDownloadData/a86559ae-4237-414e-bb68-79d516a65a03.html
 Short Description: Alabama WVTM P.O. Box 10502 Birmingham, AL 35209 http://www.nbc13.com WAFF P.O. Box 2116 Huntsville, AL 35801 http://www.waff.com WPMI 6610 Azalea Rd. Mo
8. NBC Nightly News: Headlines & Inspirational Stories with Lester Holt - NBC News
 url: <http://www.nbcnews.com/nightly-news>
 Doc ID: /Users/ShobhitAgarwal/Downloads/NBCNewsData/NBCNewsDownloadData/b9ec6c29-626c-4fbe-a78a-41c24a87f337.html

Overlap: 0

NASA

Solr:

1. <http://www.nbcnews.com/science/space/nasa-picks-four-astronauts-train-commercial-u-s-spaceflights-n389366>
2. <http://www.nbcnews.com/mach/space/amp/apollo-i-tragedy-taught-nasa-some-very-important-lessons-n713106>
3. <http://www.nbcnews.com/mach/space/apollo-i-tragedy-taught-nasa-some-very-important-lessons-n713106>
4. <http://www.nbcnews.com/science/space/amp/nasa-unveils-2-new-missions-study-truly-strange-asteroids-n703266>
5. <http://www.nbcnews.com/science/space/nasa-unveils-2-new-missions-study-truly-strange-asteroids-n703266>
6. <http://www.nbcnews.com/science/space/scott-kelly-nasa-astronaut-tweets-picture-manhattan-international-space-station-n363746>
7. <http://www.nbcnews.com/science/space/astronaut-scott-kelly-retiring-nasa-n536966>
8. <http://www.nbcnews.com/tech/innovation/nasa-setting-bunch-fires-space-purpose-n660561>
9. <http://www.nbcnews.com/science/space/astronaut-scott-kellys-twin-brother-mike-pulls-fast-one-nasa-n332796>
10. <http://www.nbcnews.com/mach/space/amp/search-alien-life-needs-human-mars-missions-nasa-chief-scientist-n694046>

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PHP Solr Indexing and Search x

localhost/solrhw4.php?q=NASA&pagerank=1ucene

Search: NASA
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Results 1 - 10 of 536:

1. [NASA Picks Four Astronauts to Train for Commercial U.S. Spaceflights - NBC News](http://www.nbcnews.com/science/space/nasa-picks-four-astronauts-train-commercial-u-s-spaceflights-n389366)
url: <http://www.nbcnews.com/science/space/nasa-picks-four-astronauts-train-commercial-u-s-spaceflights-n389366>
Doc ID: /Users/ShobhitAgarwal/Downloads/NBCNewsData/NBCNewsDownloadData/8c987f61-5620-4ae3-814e-bce029b6baaa.html
Short Description: NASA has selected a quartet of space shuttle veterans who could ride Boeing's CST-100 capsule or SpaceX's Dragon capsule into orbit as early as 2017.
2. [Apollo I Tragedy Taught NASA Some Very Important Lessons - NBC News](http://www.nbcnews.com/mach/space/apollo-i-tragedy-taught-nasa-some-very-important-lessons-n713106)
url: <http://www.nbcnews.com/mach/space/apollo-i-tragedy-taught-nasa-some-very-important-lessons-n713106>
Doc ID: /Users/ShobhitAgarwal/Downloads/NBCNewsData/NBCNewsDownloadData/5fcf90c7-8949-4cb3-a6b4-82755eb5ba5f.html
Short Description: "I think it's important for everyone to not only respect the astronauts who are no longer with us, but to think about the space program and what it's done for us."
3. [Apollo I Tragedy Taught NASA Some Very Important Lessons - NBC News](http://www.nbcnews.com/mach/space/apollo-i-tragedy-taught-nasa-some-very-important-lessons-n713106)
url: <http://www.nbcnews.com/mach/space/apollo-i-tragedy-taught-nasa-some-very-important-lessons-n713106>
Doc ID: /Users/ShobhitAgarwal/Downloads/NBCNewsData/NBCNewsDownloadData/b17a8d1f3f8f4c74-897e-03a98a48d317.html
Short Description: "I think it's important for everyone to not only respect the astronauts who are no longer with us, but to think about the space program and what it's done for us."
4. [NASA Unveils 2 New Missions to Study Truly Strange Asteroids - NBC News](http://www.nbcnews.com/science/space/nasa-unveils-2-new-missions-study-truly-strange-asteroids-n703266)
url: <http://www.nbcnews.com/science/space/nasa-unveils-2-new-missions-study-truly-strange-asteroids-n703266>
Doc ID: /Users/ShobhitAgarwal/Downloads/NBCNewsData/NBCNewsDownloadData/00e08ef4-472e-42ca-b9b9-cb30153d933c.html
Short Description: NASA's next planetary missions will attempt to unravel the mysteries of some seriously bizarre asteroids.
5. [NASA Unveils 2 New Missions to Study Truly Strange Asteroids - NBC News](http://www.nbcnews.com/science/space/nasa-unveils-2-new-missions-study-truly-strange-asteroids-n703266)
url: <http://www.nbcnews.com/science/space/nasa-unveils-2-new-missions-study-truly-strange-asteroids-n703266>
Doc ID: /Users/ShobhitAgarwal/Downloads/NBCNewsData/NBCNewsDownloadData/00e08ef4-472e-42ca-b9b9-cb30153d933c.html
Short Description: NASA's next planetary missions will attempt to unravel the mysteries of some seriously bizarre asteroids.
6. [Scott Kelly, NASA Astronaut, Tweets Picture of Manhattan From International Space Station - NBC News](http://www.nbcnews.com/science/space/scott-kelly-nasa-astronaut-tweets-picture-manhattan-international-space-station-n363746)
url: <http://www.nbcnews.com/science/space/scott-kelly-nasa-astronaut-tweets-picture-manhattan-international-space-station-n363746>
Doc ID: /Users/ShobhitAgarwal/Downloads/NBCNewsData/NBCNewsDownloadData/2a2bc981-3a07-42f4-88d3-c9672bdc5771.html
Short Description: "Good morning #Manhattan! #bigapple #YearInSpace," Scott Kelly tweeted.
7. [Astronaut Scott Kelly Retiring From NASA - NBC News](http://www.nbcnews.com/science/space/astronaut-scott-kelly-retiring-nasa-n536966)
url: <http://www.nbcnews.com/science/space/astronaut-scott-kelly-retiring-nasa-n536966>
Doc ID: /Users/ShobhitAgarwal/Downloads/NBCNewsData/NBCNewsDownloadData/abb6c8a-775d-411f-93cc-eb6627d756e4.html
Short Description: Kelly returned March 1 from a year-long mission in which he spent 340 days in space, gathering data that could help others in long trips.
8. [NASA Is Setting a Bunch of Fires in Space on Purpose - NBC News](http://www.nbcnews.com/tech/innovation/nasa-setting-bunch-fires-space-purpose-n660561)
url: <http://www.nbcnews.com/tech/innovation/nasa-setting-bunch-fires-space-purpose-n660561>
Doc ID: /Users/ShobhitAgarwal/Downloads/NBCNewsData/NBCNewsDownloadData/8826e497-6e0f-4384-9869-bc3e8ca0f08d.html

PageRank:

1. <http://www.nbcnews.com/science>
2. <http://www.nbcnews.com/news/photo>
3. <http://www.nbcnews.com/mach>
4. <http://www.nbcnews.com/feature/inspiring-america>
5. <http://www.nbcnews.com/mach/innovation/beloved-scientist-says-trump-wrong-about-immigration-n719646>
6. <http://www.nbcnews.com/feature/nerdwatch>
7. <http://www.nbcnews.com/mach/science>
8. <http://www.nbcnews.com/tech/innovation>
9. <http://www.nbcnews.com/watch/nightly-news/crashes-cast-doubt-on-safety-of-navy-s-sea-dragon-helicopter-392634435789>
10. <http://www.nbcnews.com/watch/nightly-news/how-safe-is-the-artificial-turf-on-your-childs-sports-field-339230787933>

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localhost/solrhw4.php?q=NASA&pagerank=pageRank

Search: NASA
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Results 1 - 10 of 536:

1. Science: Space, Environment & Trends - NBC News
url: <http://www.nbcnews.com/science>
Doc ID: /Users/ShobhitAgarwal/Downloads/NBCNewsData/NBCNewsDownloadData/5cf8710-4f3a-491d-b1bf-36eff9d319f9.html
Short Description: Find the latest science news articles, photos and videos covering space, the environment, human development and more on NBCNews.com.
2. News in Photos - NBC News
url: <http://www.nbcnews.com/news/photo>
Doc ID: /Users/ShobhitAgarwal/Downloads/NBCNewsData/NBCNewsDownloadData/ae71e879-abab-4f04-b305-903553a0dbf9.html
Short Description: Photo
3. Mach: The best and latest in Tech & Innovation - NBC News
url: <http://www.nbcnews.com/mach>
Doc ID: /Users/ShobhitAgarwal/Downloads/NBCNewsData/NBCNewsDownloadData/2eecc2c-6eeb-47ed-8f9f-85387cf3028c.html
Short Description: Mach asks big questions and celebrates big ideas. It champions science & innovation, challenges technology, and explores our universe.
4. Inspiring America - NBC News
url: <http://www.nbcnews.com/feature/inspiring-america>
Doc ID: /Users/ShobhitAgarwal/Downloads/NBCNewsData/NBCNewsDownloadData/e14b087a-bd31-4437-9c31-c3b1f4f7c693.html
Short Description: Meet the remarkable people who are making a positive impact on our communities and making the world a little bit better.
5. This Beloved Scientist Says Trump Is Wrong About Immigration - NBC News
url: <http://www.nbcnews.com/mach/innovation/beloved-scientist-says-trump-wrong-about-immigration-n719646>
Doc ID: /Users/ShobhitAgarwal/Downloads/NBCNewsData/NBCNewsDownloadData/9caa74aa-d911-4d83-ae85-8a548c7f36c9.html
Short Description: Michio Kaku may be American born and bred, but the outspoken physicist says immigrants are our future.
6. Nerdwatch - Breaking News & Top Stories - NBC News
url: <http://www.nbcnews.com/feature/nerdwatch>
Doc ID: /Users/ShobhitAgarwal/Downloads/NBCNewsData/NBCNewsDownloadData/5dadf35f-aa29-491e-bc3e-55bea2a067e2.html
Short Description: Go to NBCNews.com for the latest Nerdwatch news, photos and video.
7. Science: Latest Scientific Discoveries, Innovations & Top Stories - NBC News
url: <http://www.nbcnews.com/mach/science>
Doc ID: /Users/ShobhitAgarwal/Downloads/NBCNewsData/NBCNewsDownloadData/f343d0c-f054-414f-adf3-6af34ad48b92.html
Short Description: Find the latest science news & discoveries at NBCNews.com. Read headlines covering new innovations, trending discoveries & more.
8. Innovation: Technology Innovation & Invention News - NBC News
url: <http://www.nbcnews.com/tech/innovation>
Doc ID: /Users/ShobhitAgarwal/Downloads/NBCNewsData/NBCNewsDownloadData/bb189ad6-dcd8-4a14-8a10-d7d02e727415.html

Overlap: 0

Screenshots for flow of UI

Homepage

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localhost/solrhw4.php

Search:
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Search

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PHP Solr Indexing and Search × Sun 9 Apr 12:43 PM

localhost/solrhw4.php

Search: Brexit

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Brexit search via Lucene Solr

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PHP Solr Indexing and Search × Sun 9 Apr 12:43 PM

localhost/solrhw4.php?q=Brexit&pagerank=Lucene

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Results 1 - 10 of 415:

1. **4 Things American Consumers Should Know About the Brexit - NBC News**
url: <http://www.nbcnews.com/storyline/brexit-referendum/4-things-american-consumers-should-know-about-brexit-n598356>
Doc ID: /Users/ShobhitAgarwal/Downloads/NBCNewsDownloadData/035b6ccb-904d-4dcb-ac1-b39b5555dd9.html
Short Description: Are you befuddled by the Brexit?
2. **Brexit in Chaos as U.K. Government Loses Court Case on EU Withdrawal - NBC News**
url: <http://www.nbcnews.com/storyline/brexit-referendum/brexit-chaos-u-k-government-loses-court-case-eu-withdrawal-n677241>
Doc ID: /Users/ShobhitAgarwal/Downloads/NBCNewsDownloadData/2c45d221-46c9-4cf3-920d-c3a87485dfb8.html
Short Description: In a major blow for Prime Minister Theresa May, the High Court said her government needs the consent of lawmakers before launching Brexit.
3. **From Triumph to Trump: Online Reactions to 'Brexit' - NBC News**
url: <http://www.nbcnews.com/storyline/brexit-referendum/triumph-trump-online-reactions-brexit-n598106>
Doc ID: /Users/ShobhitAgarwal/Downloads/NBCNewsDownloadData/cacc07c9-689c-4d38-819f-bbc797bcd7f6.html
Short Description: The Twitter hashtag #Brexit topped the list of trending topics.
4. **Britain's Brexit: How Baby Boomers Defeated Millennials in Historic Vote - NBC News**
url: <http://www.nbcnews.com/storyline/brexit-referendum/britain-s-brexit-how-baby-boomers-defeated-millennials-historic-vote-n598481>
Doc ID: /Users/ShobhitAgarwal/Downloads/NBCNewsDownloadData/61238700-526c-4e3f-97f1-69d152cc0d87.html
Short Description: The United Kingdom's decision to amputate itself from the European Union on Friday exposed something approaching an intergenerational war of ideas.
5. **Did Brexit Referendum Embolden Racists on Britain's Streets? - NBC News**
url: <http://www.nbcnews.com/storyline/brexit-referendum/did-brexit-referendum-embolden-racists-britain-s-streets-n599451>
Doc ID: /Users/ShobhitAgarwal/Downloads/NBCNewsDownloadData/dc3cc7bc-56b0-4dd5-b2de-f421d8167c5c.html
Short Description: Reports of racial abuse have spiked following Britain's bitterly fought "Brexit" referendum, according to campaigners.
6. **Here's How the Brexit Vote Will Affect the Price of Gas - NBC News**
url: <http://www.nbcnews.com/storyline/brexit-referendum/heres-how-brexit-vote-will-affect-price-gas-n600641>
Doc ID: /Users/ShobhitAgarwal/Downloads/NBCNewsDownloadData/46550da7-0f82-42bc-840b-e533e1d10a74.html
Short Description: The Brexit fallout could have an unexpected silver lining in the form of flat or even lower gas prices.
7. **Brexit Vote: Why the 'Leave' Result Has Global Automakers Worried - NBC News**
url: <http://www.nbcnews.com/storyline/brexit-referendum/brexit-vote-why-leave-result-has-global-automakers-worried-n598436>
Doc ID: /Users/ShobhitAgarwal/Downloads/NBCNewsDownloadData/44659258-cfc8-4edb-ba77-6018c26bae37.html
Short Description: Among those fearing the impact are key global automakers like Toyota, General Motors and Britain's own Jaguar Land Rover.
8. **Pro-Brexit Trade Minister Liam Fox Rips British Businesses as 'Too Lazy, Too Fat' - NBC News**
url: <http://www.nbcnews.com/storyline/brexit-referendum/pro-brexit-trade-minister-liam-fox-rips-british-businesses-too-n646051>
Doc ID: /Users/ShobhitAgarwal/Downloads/NBCNewsDownloadData/4af864b4-e543-4ccb-b5ed-aff04ac2ba0c.html

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1. **4 Things American Consumers Should Know About the Brexit - NBC News**
url: <http://www.nbcnews.com/storyline/brexit-referendum/4-things-american-consumers-should-know-about-brexit-n598356>
Doc ID: /Users/ShobhitAgarwal/Downloads/NBCNewsData/NBCNewsDownloadData/035b6ccb-904d-4dcba-c1-b39b55555dd9.html
Short Description: Are you befuddled by the Brexit?
2. **Brexit in Chaos as UK, Government Loses Court Case on EU Withdrawal - NBC News**
url: <http://www.nbcnews.com/storyline/brexit-referendum/brexit-chaos-u-k-government-loses-court-case-eu-withdrawal-n677241>
Doc ID: /Users/ShobhitAgarwal/Downloads/NBCNewsData/NBCNewsDownloadData/2c45d221-46c9-4cf3-920d-c3a87485dfb8.html
Short Description: In a major blow for Prime Minister Theresa May, the High Court said her government needs the consent of lawmakers before launching Brexit.
3. **From Triumph to Trump: Online Reactions to 'Brexit' - NBC News**
url: <http://www.nbcnews.com/storyline/brexit-referendum/triumph-trump-online-reactions-brexit-n598106>
Doc ID: /Users/ShobhitAgarwal/Downloads/NBCNewsData/NBCNewsDownloadData/acc07e9-689c-4d38-819f-bbc797bdc7f6.html
Short Description: The Twitter hashtag #Brexit topped the list of trending topics.
4. **Britain's Brexit: How Baby Boomers Defeated Millennials in Historic Vote - NBC News**
url: <http://www.nbcnews.com/storyline/brexit-referendum/britain-s-brexit-how-baby-boomers-defeated-millennials-historic-vote-n598481>
Doc ID: /Users/ShobhitAgarwal/Downloads/NBCNewsData/NBCNewsDownloadData/61238700-526c-4e3f-9f71-69d152cc0d87.html
Short Description: The United Kingdom's decision to amputate itself from the European Union on Friday exposed something approaching an intergenerational war of ideas.
5. **Did Brexit Referendum Embolden Racists on Britain's Streets? - NBC News**
url: <http://www.nbcnews.com/storyline/brexit-referendum/did-brexit-referendum-embolden-racists-britain-s-streets-n599451>
Doc ID: /Users/ShobhitAgarwal/Downloads/NBCNewsData/NBCNewsDownloadData/dc3ce7bc-56b0-4dd5-b2de-f421d8167c5c.html
Short Description: Reports of racial abuse have spiked following Britain's bitterly fought "Brexit" referendum, according to campaigners.
6. **Here's How the Brexit Vote Will Affect the Price of Gas - NBC News**
url: <http://www.nbcnews.com/storyline/brexit-referendum/heres-how-brexit-vote-will-affect-price-gas-n600641>
Doc ID: /Users/ShobhitAgarwal/Downloads/NBCNewsData/NBCNewsDownloadData/46550da7-0f82-42bc-840b-e533e1d10a74.html
Short Description: The Brexit fallout could have an unexpected silver lining in the form of flat or even lower gas prices.
7. **Brexit Vote: Why the 'Leave' Result Has Global Automakers Worried - NBC News**
url: <http://www.nbcnews.com/storyline/brexit-referendum/brexit-vote-why-leave-result-has-global-automakers-worried-n598436>
Doc ID: /Users/ShobhitAgarwal/Downloads/NBCNewsData/NBCNewsDownloadData/44659258-cfc8-4ed8-ba77-6018c26bae37.html
Short Description: Among those fearing the impact are key global automakers like Toyota, General Motors and Britain's own Jaguar Land Rover.
8. **Pro-Brexit Trade Minister Liam Fox Rips British Businesses as 'Too Lazy, Too Fat' - NBC News**
url: <http://www.nbcnews.com/storyline/brexit-referendum/pro-brexit-trade-minister-liam-fox-rips-british-businesses-too-n646051>
www.nbcnews.com/storyline/brexit-referendum/4-things-american-consumers-should-know-about-brexit-n598356 af864b4-e543-4ccb-b5ed-aff04ac2ba0c.html

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www.nbcnews.com/storyline/brexit-referendum/4-things-american-consumers-should-know-about-brexit-n598356

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by BEN POPKEN

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