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Natural Language Processing HW 3  
Due: November 29, 2007  
Search Engine Improvement Proposal

**Abstract**

People often use the wrong name or fact to refer to an entity. This is very common among products, people, and locations. I propose a solution to aiding the search of such users on the new search engine Guggle. Please note that I interned at Google this past summer. This works is my own and does not refer to an idea I heard or worked on during my time there.

**Introduction**

There are often scenarios when a person wants to search for some word or phrase but they are not sure what it is they are looking for or they have mistaken the actual fact. This is particularly common amongst places, people, products, and media and their authors. For example, suppose a user wishes to learn about the location of the Google headquarters but mistakenly think that it is in “Mountain Valley”, instead of the actual location of “Mountain View” (Perhaps confusing the exact name with Microsoft’s headquarters Silicon Valley). A method is proposed that will automatically suggest to the person “Perhaps you meant Mountain View”

**Related Work - Proof Idea Doesn’t Exist**

Currently search engines “rely” on companies to have multiple definitions. For example, a website would tag Grand Central Station as Grand Central Station and Grand Central Terminal causing it to appear in the search results via either query. This is cumbersome for the website and it does not signify that it is the best result.

Suppose a person is interested in finding out information about the Civil War (see appendix A), but are mistakenly searching for the revolutionary war. Many of the top search engines have been examined including Google, Ask.com, Yahoo, and MSN to examine their results. Consider the initial query: *revolutionary war*. Satisfying results are certainly not achieved so the user modifies the query: *revolutionary war slaves*. The user would still not receive satisfying results on any of the top websites mentioned [1,2,3,4] (see appendix B,C,D,E) and therefore the user modifies the query yet again by adding more terms: *revolutionary war slaves north south*.

After the third try, Google [1] (see appendix I) and Ask.com [2] (see appendix H) mention the civil war within the first page, and Google has it as the top answer. The user could then realize their mistake and change their query to civil war to produce better results. MSN [3] (see appendix E) and Yahoo [4] (see appendix G) do not even show results related to the civil war on the top page meaning more refining would need to be done before the user could notice their error. In the best situation, the user will have to make 4 queries prior to receiving the results they wish. 3 queries to realize their mistake and 1 correct query. There were two opportunities to help the user achieve their goal earlier.

The first opportunity was after the user entered '*revolutionary war slaves*'. A query of 'civil war slaves' displays 1,970,000 (see appendix K) results on Google [1] whereas '*revolutionary war slaves*' displays 1,830,000 (see appendix B) results. The difference is even more evident when "civil war" and "revolutionary war" are placed in double quotes, having a difference of 1,900,000 (see appendix L) to 884,000 (see appendix M) respectively, which leads me to believe that many of the results in the query with revolutionary war actually mention another war, probably the civil war. A method will be proposed in the next section that should recognize this difference and suggest to the user "Perhaps you meant the *civil war*".

The second opportunity is at the point where the user recognizes their mistake; when the correct fact is listed in the top results. For example, on Google [1], the first result points to the Wikipedia entry for the civil war (see appendix I). This information can be used to suggest to the user "Perhaps you meant the *civil war*", which will cause them to have to type one less query and will help them feel more confident in the correction of their mistake. The method proposed in the next section should aid the user in correcting their mistake at this point.

### **Finding the Intended Query**

The possible mistakes can be extremely common or less frequent. Popular mistakes are those in which the top result is often the right answer, due to either statistical relevance (mistake is common) or website tagging (website can tag their site with multiple terms including the wrong ones to improve ranking). For example, suppose the user queries for *DisneyLand, Florida* instead of the proper query, *Disney World, Florida*. This is an extremely common mistake and the top result is still the Disney World site (see appendix N). These mistakes are not of any concern since they already return a useful result, however this could be recognized and given to the users as an option to easily fix their query by selecting "Perhaps you meant *Disney World, Florida*". It will allow the search engine to aid the user and not require the website to manually enter the various possible tags.

The less common mistakes can be broken up into three categories and each must be dealt with differently. The

first category is a regular query. The second category is a query with the incorrect portion in double quotes; for example, “*Disney World*” *Florida*. The third and final category is a query with the incorrect portion within a word; for example, querying for *headbook* instead of *facebook* (mainly applies when one word query, it is essentially a subset of the main problem). This paper will be focusing on the general or regular mistakes but briefly mention some ideas for the other mistakes within the future work section.

This paper proposes an approach to finding the user’s intended query based upon the current query by examining portions of the query with other words. The other words are obtained by taking the best features within the query results of the portions of the query. The algorithm is described below, and then the revolutionary/civil war example from the previous section is used to show how it will work. It is important to note that it is assumed prior to the calling of this algorithm that other techniques have already been called upon such as stemming, removal of stop words from the query, and spelling corrections.

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***Other Fact Suggestion Algorithm( $x, tu, nf$ )***

- 1 Keep list, Q, of user queries during current session
  - 2 For each query that satisfies some threshold of uncertainty,  $tu$
  - 3     Add query to Q
  - 4     Let  $w$  be the number of words in a query
  - 5     Divide the current query into  $w$  portions of size  $w-1$
  - 6     Let  $f$  be a unique list of features (use a hash)
  - 7     For each n-gram
  - 8         Eliminate if it is in the list of previous queries, Q
  - 9         Compute the best features based on the top  $x$  query results
  - 10        Add the top features into  $f$  based on a threshold,  $nf$
  - 11 Rank the features in  $f$  in descending order
  - 12 Suggest the best ranked feature
- 

The previous section mentioned that the first change could have been made when the user entered the query *revolutionary war slaves*. Assume that the query satisfies the threshold of uncertainty mentioned in step 2. The threshold of uncertainty is satisfied when there is enough proof that the user is unsure of the best query due to factors such as modifying the query and not visiting any pages mentioned in the results. The query can be broken up into n-grams of size  $w-1$ . This would give three queries: *revolutionary war*, *war slaves*, and *revolutionary slaves*. *revolutionary war* could be eliminated because that was a previous query which clearly did not satisfy the

user. Features must be computed based on the results for each n-gram and then merged into one list to find the best feature overall.

The only non-trivial step within the outer loop is computing the best features for each n-gram. All the other steps will run in almost constant time because the number of n-grams should be fairly small because most people tend to use small queries. Even in the case of large queries the runtime will be fast because as the query size gets larger the number of results will get smaller. Computing the best features can be achieved a number of ways. One possible method would be to get a subset of words using a window size surrounding the query words in each of the top  $x$  results; for example, the text shown as part of the result. The title can also be used. Testing would need to be done on the subset of words to find the best feature extraction method. For example, the chi-square test or document frequency (with a list of stop words) can be used on the subset to create a ranking of important features. It also may be worthwhile to use part of speech to only examine nouns (or more specifically proper nouns) since most mistakes occur on those words. This method is clearly space efficient, but can take time depending on the precise method used and the number of words. (Computing the document frequency for each word would take  $O(n)$  and then sorting the list would take  $O(n \log n)$  where  $n$  is the number of words in the subset.). One possible solution is to store the best suggestion after it is made, especially if the user is satisfied and if it is a common error, because the runtime will be constant from then on and that is more important than the minimal amount of space it will require.

The total runtime for the algorithm is  $O(qnk)$  where  $q$  is the number of queries that must be evaluated before the user is satisfied,  $n$  is the number of n-grams and  $k$  is the time to run step 9. If the algorithm is successful,  $q$  should be small. The limitations of this algorithm are clear. It is possible that finding a suggestion can take a significant amount of time due to  $k$ . It is important to minimize the number of words that need to be examined. There is almost certainly a method for accomplishing this quickly, efficiently and successfully, but experiments would need to be run to find the best solution. Once this obstacle has been overcome, it can easily be used for any query on the web. If little additional storage is needed, the cost of implementing the algorithm should be fairly minimal.

In this algorithm, precision is more important than recall because it is better to be correct than to show a meaningless suggestion. There are a number of thresholds in place that should improve precision. The main threshold that will improve precision is only showing a suggestion if user dissatisfaction is evident. This will improve user satisfaction because the user does not want to be bothered by suggestions stating they have their facts incorrect.

An insight to the hope of the ranking can be visualized by looking at just the first page of the n-gram queries for *revolutionary war slaves*. Using Google [1], the query results for *revolutionary slaves* refer to the *American Revolution* 4/10 times, and the *Haitian Revolution* 4/10 times on the first page (see appendix O). The query results for *war slaves* refer to the civil war 8/10 times on the first page (see appendix J). Ranking these results it is clear that civil war was the most probable intended query and it can be suggested to the user “Perhaps you meant the civil war”.

### Future Work

In addition to the general case, the mistaken fact can be within a word. This is more difficult than the general case. The first step would be to divide the word into parts. Then, it would be useful to experiment with Wordnet [5] because it may be more likely in these cases that the person used the wrong synonym, such as *headbook* instead of *facebook*. The rest of the algorithm would be similar to the general case.

Mistaken facts can also occur within double quotes. One option would be to simply run the algorithm by ignoring them. Some search engines, such as Ask.com [2] do get rid of double quotes if no results show up. However, it may be more probable that the mistake is within the quoted section. If that is the case, the algorithm can be simplified to only look at the n-grams where the entire phrase within the quotes occurs.

### Conclusion

In conclusion, giving the user suggestions to mistaken facts is a step forward in the computer doing the ‘thinking’ for the user in a time when it is most beneficial to them - when they don’t even know they have made a mistake at all. This addition to the Guggle search engine will improve its quality, precision, and user satisfaction causing Guggle to rise as the top search engine available today.

### References

[1] [www.google.com](http://www.google.com)

[2] [www.ask.com](http://www.ask.com)

[3] [www.yahoo.com](http://www.yahoo.com)

[4] [www.msn.com](http://www.msn.com)

[5] **Christiane Fellbaum** et al. “Wordnet: An Electronic Lexical Database”, MIT Press (1998)

## Appendix

Web Images Products News Maps Gmail more ▼ Sign in

Google  Search [Advanced Search](#) [Preferences](#)

Web News Books Images Results 1 - 10 of about 152,000,000 for [civil war](#) [definition]. (0.06 seconds)

**News results for [civil war](#)**

 [Beavers star running back questionable for 'Civil War'](#) - Nov 20, 2007  
Oregon has a bye this week before playing Oregon at Autzen Stadium in the annual **Civil War** rivalry game. "It's questionable at best for his return in time ...  
[SI.com - 43 related articles »](#)  
[Rivalry between Missouri and Kansas traces its roots to Civil War ...](#) - MSNBC - 27 related articles »  
[A most American holiday - Seattle Times - 25 related articles »](#)

[Home - American Civil War - CivilWar.com](#)  
The American **Civil War** was the only **war** fought on American soil by Americans. 3 million fought - 600000 died. It was the greatest **war** in American history.  
[www.civilwar.com/](#) - 15k - [Cached](#) - [Similar pages](#)

[American Civil War - Wikipedia, the free encyclopedia](#)  
The American **Civil War** (1861–1865) was a **civil war** between the United States of America (the "Union") and the Southern slave states of the newly-formed ...  
[en.wikipedia.org/wiki/American\\_Civil\\_War](#) - 234k - [Cached](#) - [Similar pages](#)

[The Civil War Home Page](#)  
The **Civil War** Home Page brings together thousands of pages of **Civil War** material including information on Battles, Documents, Associations, ...  
[www.civil-war.net/](#) - 70k - [Cached](#) - [Similar pages](#)

[The History Place - U.S. Civil War 1861-1865](#)  
An easy-to-use American **Civil War** timeline with many original photographs and interesting quotes.  
[www.historyplace.com/civilwar/](#) - 36k - [Cached](#) - [Similar pages](#)

[The Civil War | PBS](#)  
Includes images, maps, biographies, historical documents, bibliography, related links, fact page and section for educators.  
[www.pbs.org/civilwar/](#) - 15k - [Cached](#) - [Similar pages](#)

[The American Civil War Homepage](#)  
Comments and suggestions can be sent to [hoemann@tennessee.edu](mailto:hoemann@tennessee.edu). This page downloaded from <URL:<http://sunsite.utk.edu/civil-war/>>  
[sunsite.utk.edu/civil-war/](#) - 3k - [Cached](#) - [Similar pages](#)

### A. Google Search – Civil War

Web Images Products News Maps Gmail more ▼ Sign in

Google  Search [Advanced Search](#) [Preferences](#)

Web Results 1 - 10 of about 1,830,000 for [revolutionary war slaves](#). (0.05 seconds)

[Africans in America | Part 2 | The Revolutionary War](#)  
As the **Revolutionary War** spread through every region, those in bondage sided with ... (Runaway **slaves** belonging to Loyalists were returned to their masters. ...  
[www.pbs.org/wgbh/aia/part2/2narr4.html](#) - 19k - [Cached](#) - [Similar pages](#)

[African American Participation in the Revolutionary War](#)  
Before the **war** was over, more than 5000 African Americans from every state except Georgia and South Carolina served in the **Revolutionary** army. **Slaves** ...  
[www.americanrevolutionarywar.homestead.com/files/BLACKS.HTM](#) - 14k - [Cached](#) - [Similar pages](#)

[American Revolutionary War - Wikipedia, the free encyclopedia](#)  
The American **Revolutionary War** (1775–1783), also known as the American **War** of .... African-Americans—**slave** and free —served on both sides during the **war**. ...  
[en.wikipedia.org/wiki/American\\_Revolutionary\\_War](#) - 132k - [Cached](#) - [Similar pages](#)

[Revolutionary War: The Home Front](#)  
Defining a "home front" in the **Revolutionary War** is difficult because so much ... the American **war** effort, emancipated and evacuated thousands of **ex-slaves**. ...  
[memory.loc.gov/learn/features/timeline/amrev/homefnt/homefnt.html](#) - 13k - [Cached](#) - [Similar pages](#)

[Revolutionary War Guide](#)  
Learn About the **Revolutionary War**. Fighting began on April 19, ... A quarter of the **slaves** in

### B. Google Search – Revolutionary War Slaves

Web | Images | Video | Local | Shopping | more ▾

revolutionary war slaves  Search

**YAHOO!**

1-10 of 2,450,000 for revolutionary war slaves (About) - 0.17 sec

- [Africans in America | Part 2 | The Revolutionary War](#)**  
The British actively recruited **slaves** belonging to Patriot masters and, ... Boston King was an escaped **slave** who joined up with the Loyalists and later ...  
[www.pbs.org/wgbh/aia/part2/2narr4.html](http://www.pbs.org/wgbh/aia/part2/2narr4.html) - 18k - [Cached](#)
- [American Revolutionary War - Wikipedia, the free encyclopedia](#)**  
African-Americans—**slave** and free —served on both sides during the **war**. ... have recruited more **slaves** and Native Americans to fight the **war**, but this would ...  
Quick Links: [Combatants before 1778](#) - [Armies, militias, and mercenaries](#) - [African-Americans and Native Americans](#)  
[en.wikipedia.org/wiki/American\\_Revolutionary\\_War](http://en.wikipedia.org/wiki/American_Revolutionary_War) - 135k - [Cached](#)
- [Slaves and Indentured in Revolutionary War](#)**  
The Community Environmental Legal Defense Fund ... as the body or person of a Negro, man or woman, who is sold as a legal **Slave**. ...  
[celfd.org/DemocracySchool/.../tabid/252/Default.aspx](http://celfd.org/DemocracySchool/.../tabid/252/Default.aspx) - 26k - [Cached](#)
- [Revolutionary War: Definition and Much More from Answers.com](#)**  
The **war** shook slavery severely, and thousands of former **slaves** also departed with the British. ... **slave** and free —served on both sides during the **war**. ...  
[www.answers.com/topic/american-revolutionary-war](http://www.answers.com/topic/american-revolutionary-war) - 265k - [Cached](#)
- [Revolutionary War: The Home Front](#)**  
... a "home front" in the **Revolutionary War** is difficult because so much of ... years of the **war** took place in the South, many **slaves** escaped to British lines. ...  
[memory.loc.gov/learn/features/timeline/amrev/homefnt/homefnt.html](http://memory.loc.gov/learn/features/timeline/amrev/homefnt/homefnt.html) - 13k - [Cached](#)

### C. Yahoo Search – Revolutionary War Slaves



Web | Images | City | News | More »

revolutionary war slaves

Advanced

**Narrow Your Search**

- [Revolutionary War Weapons](#)
- [Slaves during the Revolutionary War](#)
- [Prices during the Revolutionary War](#)
- [Daily Life in the Revolutionary War](#)
- [Revolutionary War Fashion](#)
- [Post Revolutionary War](#)
- [How Long Was the Revolutionary War](#)
- [Woman in the Revolutionary War](#)
- [Revolutionary War Indians](#)
- [Black Soldiers Revolutionary War](#)

[More »](#)

**Expand Your Search**

- [Slavery](#)
- [Native Americans](#)
- [African Americans in the American Revolution](#)
- [The Battle of Lexington](#)

[More »](#)

revolutionary war slaves Showing 1-10 of 599,900 MyStuff ▾ Options ▾

**[Revolutionary War](#)**  
Revolution links to general documents on the **Revolutionary War**, **Revolutionary War** battles, events, and sites ...  
[www.geocities.com/Athens/Delphi/4393/rev\\_war.html](http://www.geocities.com/Athens/Delphi/4393/rev_war.html) - [Cached](#)

**[Africans in America | Part 2 | The Revolutionary War](#)**  
... whether to fight in the **war** was far from an easy choice for American colonists. ... As the **Revolutionary War** spread through every ...  
[www.pbs.org/wgbh/aia/part2/2narr4.html](http://www.pbs.org/wgbh/aia/part2/2narr4.html) - [Cached](#)

**[The Seattle Times: Books: The Revolutionary War through slaves' ...](#)**  
... seattletimes.com: Northwest news and information from the Seattle Times. Daily local news, sports, arts and entertainment, and classified ads.  
[seattletimes.nwsouce.com/html/books/2002987788\\_buzz14...](http://seattletimes.nwsouce.com/html/books/2002987788_buzz14...)

**[A Struggle from the Start: The free Black](#)**  
Emerging from the Shadows, 1775-1819: Free Blacks before the **Revolutionary War** ...  
Manumitted **slaves** who were freed by their owner, perhaps ...  
[www.hartford-hwp.com/HBHP/exhibit/03/index.html](http://www.hartford-hwp.com/HBHP/exhibit/03/index.html) - [Cached](#)

**[Dirty little secret: to see the Revolutionary War through the eyes ...](#)**  
Smithsonian MAY-06 Dirty little secret: to see the **Revolutionary War** through the eyes of **slaves** is to better understand why so many of them ...  
[www.accessmylibrary.com/coms2/summary\\_0286-15460603\\_ITM](http://www.accessmylibrary.com/coms2/summary_0286-15460603_ITM)

**[KCRW: Black Slaves and the American Revolutionary War \(2006-05-04\)](#)**  
Black **Slaves** and the American **Revolutionary War** Hosted by Warren Olney ... That's from Rough Crossings: Britain, the **Slaves** and the ...  
[www.publicbroadcasting.net/kcrw/news.newsmain?action=ar...](http://www.publicbroadcasting.net/kcrw/news.newsmain?action=ar...)

### D. Ask.com Search – Revolutionary War Slaves

The screenshot shows a search engine interface with a search bar containing 'revolutionary war slaves'. The search results are categorized under 'Web results' and include several links to Wikipedia and PBS.org. The top result is 'Slaves and Indentured in Revolutionary War' from the Community Environmental Legal Defense Fund. Other results include 'American Revolutionary War - Wikipedia, the free encyclopedia', 'Africans in America | Part 2 | The Revolutionary War', and 'Africans in America/Part 1/Black Revolutionary Sea Men'. The right sidebar features sponsored sites like 'revolutionary war' and 'Revolutionary War Info'.

### E. MSN Search – Revolutionary War Slaves

The screenshot shows a search engine interface with a search bar containing 'revolutionary war slaves north south'. The search results are categorized under 'Web results' and include several links to Wikipedia and PBS.org. The top result is 'American Revolution - Wikipedia, the free encyclopedia'. Other results include 'American Revolutionary War - Wikipedia, the free encyclopedia', 'Revolutionary War Guide', 'Africans in America | Part 2 | The Revolutionary War', and 'Africans in America/Part 1/Black Revolutionary Sea Men'. The right sidebar features sponsored sites like 'revolutionary war', 'North & South', 'Revolutionary War Info', and 'Rent North And South'.

### F. MSN Search – Revolutionary War Slaves North South

The screenshot shows a Yahoo! search interface. At the top, there are navigation links for Web, Images, Video, Local, Shopping, and more. The search bar contains the text 'revolutionary war slaves north south' and a 'Search' button. To the right of the search bar is the 'Options' dropdown and the Yahoo! logo. Below the search bar, the search results are displayed, showing 1-10 of 2,130,000 results. The first five results are listed below:

- Southern theater of the American Revolutionary War - Wikipedia, the ...**  
... the **north**, focused on campaigns around the cities of Boston, New York, and Philadelphia. ... 2 British campaign in the **South**. 2.1 The Loyalist question ...  
Quick Links: [Early operations, 1775–1776](#) - [First attack on Charleston](#) - [British campaign in the South](#)  
[en.wikipedia.org/wiki/Southern\\_theater\\_of\\_the\\_American\\_Revolutionary\\_War...](http://en.wikipedia.org/wiki/Southern_theater_of_the_American_Revolutionary_War...) - 67k - [Cached](#)
- American Revolutionary War - Wikipedia, the free encyclopedia**  
... is now Canada to the **north**, Florida to the **south**, and the Mississippi River to the west. ...  
**Revolutionary War** | National liberation movements | **Wars of ...**  
Quick Links: [Combatants before 1778](#) - [Armies, militias, and mercenaries](#) - [African-Americans and Native Americans](#)  
[en.wikipedia.org/wiki/American\\_Revolutionary\\_War](http://en.wikipedia.org/wiki/American_Revolutionary_War) - 135k - [Cached](#)
- The American Revolutionary War**  
... is now Canada to the **north**, Florida to the **south**, and the Mississippi River to the west. ... more **slaves** and Native Americans to fight the **war**, but this ...  
[www.myrevolutionarywar.com/index.htm](http://www.myrevolutionarywar.com/index.htm) - 22k - [Cached](#)
- African American Participation in the Revolutionary War**  
In the **South**, **slaves** grew tobacco in Maryland, Virginia, and **North** Carolina, and ... African Americans, **slave** and free, also worked in a wide variety of ...  
[www.americanrevwar.homestead.com/files/BLACKS.HTM](http://www.americanrevwar.homestead.com/files/BLACKS.HTM) - 14k - [Cached](#)
- Revolutionary War: Definition and Much More from Answers.com**  
... duly returned **north**, nominating Lord Cornwallis as his successor in the **south**. ... **War**. The colonial **war**s were the background to the **Revolutionary War**. ...  
[www.answers.com/topic/american-revolutionary-war](http://www.answers.com/topic/american-revolutionary-war) - 265k - [Cached](#)

### G. Yahoo Search – Revolutionary War Slaves North South

The screenshot shows an Ask.com search interface. On the left side, there is a navigation menu with links for Web, Images, City, News, and More. The search bar contains the text 'revolutionary war slaves north south' and a search button. Below the search bar, there are sections for 'Narrow Your Search' and 'Expand Your Search'. The main search results are displayed, showing 1-10 of 304,900 results. The first five results are listed below:

- Free African Americans of Virginia, North Carolina, South Carolina, ...**  
... bonds, parish registers, **Revolutionary War** pension files, etc. There are also ... for Delaware, Maryland, **North Carolina**, **South Carolina**, ...  
[www.freeafricanamericans.com/](http://www.freeafricanamericans.com/) - [Cached](#)
- The History Place - U.S. Civil War 1861-1865**  
Lee, son of a **Revolutionary War** hero, and a 25 year distinguished veteran of ... ability of the rural **South** to stay well supplied in its **war** ...  
[www.historyplace.com/civilwar/index.html](http://www.historyplace.com/civilwar/index.html) - [Cached](#)
- Prelude to Revolution**  
... by the French and Indian **War** and to help pay for the expenses of running the ... both the industrial **North** and agricultural **South**, thus ...  
[www.historyplace.com/unitedstates/revolution/rev-prel.h...](http://www.historyplace.com/unitedstates/revolution/rev-prel.h...) - [Cached](#)  
[More Results from www.historyplace.com](#)
- eBay Store - HISTORY'S NEWSSTAND: Civil War from the North, 1600's**  
...  
Buy **Civil War** from the **North** and 1600's and 1700's items from HISTORY'S NEWSSTAND eBay Store. We also sell Prints, Illustrations, Display, 20th ...  
[stores.ebay.com/HISTORYS-NEWSSTAND](http://stores.ebay.com/HISTORYS-NEWSSTAND)
- John F. Blair, Publisher, History Titles**  
John F. Blair, Publisher, is an independent trade publisher specializing in non-fiction books on the southeastern United States. Books that we ...  
[www.blairpub.com/history/history.htm](http://www.blairpub.com/history/history.htm)

### H. Ask.com Search – Revolutionary War Slaves North South

Web Images Products News Maps Gmail more ▼ seirasto@gmail.com | My Notebooks | Web History | My Account | Sign out



Web Results 1 - 10 of about 1,600,000 for revolutionary war slaves north south. (0.20 seconds)

2 results stored on your computer - Hide - About
hw3.doc - adding more terms: revolutionary war slaves north
revolutionary war slaves.. - revolutionary war slaves north south -Ask.com

American Civil War - Wikipedia, the free encyclopedia
Both North and South assumed that if slavery could not expand it would wither and die. ....
I don't think the South ever had a chance to win that War. ...
en.wikipedia.org/wiki/American\_Civil\_War - 234k - Cached - Similar pages - Note this

American Revolution - Wikipedia, the free encyclopedia
It was the first fighting of the American Revolutionary War, .... gradual abolition occurred in
the North, but slavery expanded in the South and racial ...
en.wikipedia.org/wiki/American\_Revolution - 112k - Cached - Similar pages - Note this
[ More results from en.wikipedia.org ]

African American Participation in the Revolutionary War
In the South, slaves grew tobacco in Maryland, Virginia, and North .... This portrait (left) of an
unidentified Revolutionary War sailor was painted in oil ...
www.americanrevolution.homestead.com/files/BLACKS.HTM - 14k -
Cached - Similar pages - Note this

The Civil War
In the South, most slaves did not hear of the proclamation for months. But the purpose of the
Civil War had now changed. The North was not only fighting to ...
www.pbs.org/wgbh/aia/part4/4p2967.html - 21k - Cached - Similar pages - Note this

Slavery in the North
Slavery in the North never approached the numbers of the South. ... practical economics;
and the fact that the Revolutionary War had broken the Northern ...
www.slavenorth.com/ - 16k - Cached - Similar pages - Note this

### I. Google Search – Revolutionary War Slaves North South

Google search for "war slaves". The search bar contains "war slaves" and the search button is visible. The results page shows several links related to slavery during the Civil War era, including "Slavery In The Civil War Era", "Freedmen, The Freed Slaves of the Civil War", "Pre-Civil War African-American Slavery", "African American History", "BBC News | ASIA-PACIFIC | Japan war slaves get \$4.6m", "War Slaves Compensated by Germany", and "Amazon.com: Voices From the Civil War - Slaves (Voices From the ...)".

**J. Google Search –War Slaves**

Google search for "civil war slaves". The search bar contains "civil war slaves" and the search button is visible. The results page shows a link titled "Slavery In The Civil War Era" with a snippet: "Over the years there has been a wealth of information written about the 'peculiar institution' (as it was called then) of slavery in the Civil War era. ...".

**K. Google Search - Civil War Slaves**

Google search for "civil war" slaves. The search bar contains "civil war" slaves and the search button is visible. The results page shows a link titled "Slavery In The Civil War Era" with a snippet: "Over the years there has been a wealth of information written about the 'peculiar institution' (as it was called then) of slavery in the Civil War era. ...".

**L. Google Search – “Civil War” Slaves**

Google "revolutionary war" slaves Search [Advanced Search](#) [Preferences](#)

Web Books Results 1 - 10 of about 884,000 for "revolutionary war" slaves. (0.16 seconds)

[Africans in America | Part 2 | The Revolutionary War](#)  
As the Revolutionary War spread through every region, those in bondage sided with ...  
(Runaway slaves belonging to Loyalists were returned to their masters. ...  
[www.pbs.org/wgbh/aia/part2/2narr4.html](http://www.pbs.org/wgbh/aia/part2/2narr4.html) - 19k - [Cached](#) - [Similar pages](#)

### M. Google Search – “Revolutionary War” Slaves

Google DisneyLand, Florida Search [Advanced Search](#) [Preferences](#)

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[www.discounttheparkvacations.com](http://www.discounttheparkvacations.com)

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[www.Expedia.com](http://www.Expedia.com)

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### N. Google Search – Disneyland Florida

Google revolutionary slaves Search [Advanced Search](#) [Preferences](#)

Web Books Results 1 - 10 of about 2,100,000 for revolutionary slaves. (0.05 seconds)

[Africans in America | Part 2 | The Revolutionary War](#)  
(Runaway slaves belonging to Loyalists were returned to their masters. ... Slavery and Religion · Declarations of Independence · The Revolutionary War ...  
[www.pbs.org/wgbh/aia/part2/2narr4.html](http://www.pbs.org/wgbh/aia/part2/2narr4.html) - 19k - [Cached](#) - [Similar pages](#)

[FRANKLIN W. KNIGHT | The Haitian Revolution | The American ...](#)  
The British North Americans who declared their independence in 1776 left slavery intact, and theirs was more a political revolution than a social and ...  
[www.historycooperative.org/journals/ahr/105.1/ah000103.html](http://www.historycooperative.org/journals/ahr/105.1/ah000103.html) - [Similar pages](#)

[The American Revolution](#)  
The courageous military service of African Americans and the revolutionary spirit ended slavery in New England almost immediately. ...  
[www.nps.gov/revwar/about\\_the\\_revolution/african\\_americans.html](http://www.nps.gov/revwar/about_the_revolution/african_americans.html) - 22k - [Cached](#) - [Similar pages](#)

[Haiti: The Revolution of 1791-1803](#)  
There were some 500000 slaves on the eve of the French Revolution. ... Actually two of the leading generals of the early slave revolution were maroons. ...  
[www.webster.edu/~corbete/haiti/history/revolution/revolution1.htm](http://www.webster.edu/~corbete/haiti/history/revolution/revolution1.htm) - 31k - [Cached](#) - [Similar pages](#)

[Haitian Revolution - Wikipedia, the free encyclopedia](#)  
[1] Within a year the island was in revolutionary chaos. Slaves burnt the plantations where they had been forced to work, and killed masters, overseers and ...  
[en.wikipedia.org/wiki/Haitian\\_Revolution](http://en.wikipedia.org/wiki/Haitian_Revolution) - 67k - [Cached](#) - [Similar pages](#)

[Slavery and Liberty in the American Revolution](#)  
John Laurens's Black Regiment Proposal would have enlisted slaves into the Continental Army, granting them freedom in return for their service.  
[www.earlyamerica.com/review/2003\\_winter\\_spring/slavery\\_liberty.htm](http://www.earlyamerica.com/review/2003_winter_spring/slavery_liberty.htm) - 42k - [Cached](#) - [Similar pages](#)

[New Socialist Magazine, Haiti: Slave Revolution That Defeated ...](#)  
After all, they embody the spirit of the world's first successful slave revolution which created the state of Haiti 200 years ago. ...  
[www.newsocialist.org/magazine/45/article15.html](http://www.newsocialist.org/magazine/45/article15.html) - 16k - [Cached](#) - [Similar pages](#)

[The Revolution's Black Soldiers](#)  
Rider, Sidney S. "Historical Inquiry Concerning the Attempt to Raise a Regiment of Slaves By Rhode Island During the War of the American Revolution. ...  
[www.americanrevolution.org/blk.html](http://www.americanrevolution.org/blk.html) - 54k - [Cached](#) - [Similar pages](#)

### O. Google Search - revolutionary slaves