Advanced Web Searching
for SLI Educators

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Presentation Objectives

- Review search syntaxes to search for:
  - Terms **on a webpage**
    - Boolean operators – AND and OR and NOT (--)
  - Terms **in a specific location** on a Web document
    - Title of the webpage
  - Webpages **from a source**
    - Only one Top Level Domain (TLD)
Presentation Objectives

- Webpages from a source (continued)
  - Find results from only k12.va.us school divisions
  - Limit results to a single site; for example, ERIC

- Use Google Search Tools “By time” option to limit results to a time period
  - Reduces the number of results returned

- Review use of “double quotation marks” to search for:
  - Multiple search terms as phrases
  - Exact match of only one search term
Use of “Double Quotation Marks”

- **Google** expanded the capabilities of the quotation marks (" ") operator.

- Use double quotation marks on:
  - two or more terms (" ") to search for an exact phrase,
  - single terms to force **Google** to match a single term exactly without synonyms
About Syntax Spacing

Remember
Boolean Operators are entered in UPPER CASE.

Spaces

No space

intitle:"middle school" AND "reading instruction" AND site:org

No space
Keyword Search

About 3,750,000 results

Scholarly articles for **reading instructional strategies**

**Instructional strategies** for content-area **reading** … - Bryant - Cited by 93

Active Learning: 101 **Strategies** To Teach Any Subject. - Silberman - Cited
Phrase Search

"reading instructional strategies"

About 12,900 results

Reading Instructional Strategies: Resources for Adult Educators ...
www.pbslearningmedia.org/collection/ristrat/

This collection of video segments produced by KET provides resources for teaching reading in the adult education classroom. In this collection, you will find individual lessons tailored to teaching specific strategies such as questioning, repeated reading, and summarizing.
## Your turn to search!

<table>
<thead>
<tr>
<th>Query</th>
<th># of Results</th>
</tr>
</thead>
<tbody>
<tr>
<td>reading literacy</td>
<td></td>
</tr>
<tr>
<td>reading AND literacy</td>
<td></td>
</tr>
<tr>
<td>“reading literacy”</td>
<td></td>
</tr>
</tbody>
</table>
Boolean Operators

- Using the Boolean operators **AND** or **OR**, add more search terms to further describe your topic.

  - Boolean operators are entered into the query in **UPPER CASE**.

  - If the **OR** operator is entered in lower case, Google ignores it.
**AND Boolean Operator**

- **AND** – Both of the search terms are present in the Web documents.

![Diagram showing the AND operator with overlapping circles for College and University, indicating where both terms are present.](image-url)
AND Boolean Operator

The phrase “reading instructional strategies” and “elementary school” shall be returned in the search results.
AND Boolean Operator Results

Note that all of the search terms were returned in the results.
Your turn to search!

<table>
<thead>
<tr>
<th>Query</th>
<th># of Results</th>
</tr>
</thead>
<tbody>
<tr>
<td>“elementary school” AND booklist</td>
<td></td>
</tr>
<tr>
<td>“elementary school” AND booklist AND fiction</td>
<td></td>
</tr>
<tr>
<td>“elementary school” AND booklist AND fiction AND “read aloud”</td>
<td></td>
</tr>
</tbody>
</table>

If you are a middle or high school librarian, substitute “middle school” or “high school” in the query.
OR Boolean Operator

- **OR** – At least one of the search terms is present in the webpage document.
OR Boolean Operator

“reading instruction” AND "lesson plans" OR "curriculum guides" AND "middle school"

- Both may appear but at least one of the search phases, "lesson plans" or "curriculum guides" must appear in the search results.
OR Boolean Operator Results

Harrisonburg City Public Schools - Teacher Reading Resources
web.harrisonburg.k12.va.us/languagearts/index.php?page=teacher-resources
Middle School ... VDOE Lessons for Reading Instruction ... English SOL Vocabulary Resources - This Web page highlights lesson plans from the English ...

[PDF] The Reading K-5 Binder - York County School Division
www.gslb.ycsd.york.va.us/parents/parentResources/curriculum/readingK-5.pdf
Reading Instruction That Works: The Case for Balanced Teaching, Michael .... By 2014, the difference in the SOL Pass rates of African ... YCSD English Curriculum Guides amplify this equip ..... Lesson Plans.

[PDF] Literacy Plan - Amherst County Public Schools
... a Difference Means Making it. Different: Honoring Children. Excellent Reading Instruction” ...... Virginia Department Middle School English .... http://www.readwritethink.org/classroom-resources/lesson-plans/guided-

Note that at least one of the search phrases appears in the results and both phrases are in the 2nd result.
Your turn to search!

<table>
<thead>
<tr>
<th>Query</th>
<th># of Results</th>
</tr>
</thead>
<tbody>
<tr>
<td>&quot;middle school&quot; AND &quot;book recommendations&quot;</td>
<td></td>
</tr>
<tr>
<td>OR booklists</td>
<td></td>
</tr>
<tr>
<td>&quot;middle school&quot; AND &quot;book recommendations&quot;</td>
<td></td>
</tr>
<tr>
<td>OR booklists AND fiction OR non-fiction</td>
<td></td>
</tr>
<tr>
<td>&quot;middle school&quot; AND &quot;book recommendations&quot;</td>
<td></td>
</tr>
<tr>
<td>OR booklists AND fiction OR non-fiction AND boys OR males</td>
<td></td>
</tr>
</tbody>
</table>

If you are an elementary or high school librarian, substitute “middle school” or “high school” in the query.
Excluding a Term or Site in Search Results

- Google does not support the NOT operator; the minus sign "-" before a term gives the same functionality.
Excluding a Website from the Results

```
best AND comics AND "graphic novels" AND children
```

About 2,860,000 results in 0.78 seconds

The Best Graphic Novels for Children | I Love Libraries

Oct 19, 2011 - Here's a "best of the best" list of graphic novels for children developed as .... Adventures in Cartooning: How to Turn Your Doodles into Comics

Amazon Best Sellers: Best Children's Comics & Graphic Novels

Discover the best Children's Comics & Graphic Novels in Best Sellers. Find the top 100 most popular items in Amazon Books Best Sellers.
Excluding a Website from the Results

best AND comics AND "graphic novels" AND children -site:amazon.com

NOTE
The number of results decreased by 1.7 million with the exclusion of www.amazon.com
Title Field Search

Syntax – intitle:(search terms)

- **Title Field Search** (intitle:) – Returns results with the keyword or phrase in the webpage title.
Search Results

About 33 results

Request instruction - Library Instruction - Research
libguides.sunysccc.edu/libraryinstruction/request

Citing sources. Creating a citation in APA/Chicago/MLA style ... Sample lesson plans. Evaluating Sources lesson plan • How Databases Work lesson plan ...

PDF] Framing a Strategy: Exploring Faculty Attitudes toward Library ...
scholarworks.wmich.edu/cgi/viewcontent.cgi?article=1023&context=library... by MA Perez-Stable - Cited by 4 - Related articles correctly citing sources, and, finally, developing a workable research question. ...... In addition to coordinating the lesson plan with the

PDF Library Instruction Program
library.tulane.edu/sites/library.../Instruction-Program-1-17-2011.pdf... Tulane U Jan 17, 2011 - This is a general lesson plan for Freshman Writing need to be adjusted depending on ... Provide information about sources.

NOTE
The phrase library instruction appears in the title of the results.
Let's do a title field search!

<table>
<thead>
<tr>
<th>Query</th>
<th># of Results</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>intitle:booklist AND &quot;middle school&quot; AND nonfiction</code></td>
<td></td>
</tr>
<tr>
<td><code>intitle:“read aloud” AND &quot;book recommendations&quot; AND &quot;elementary school&quot;</code></td>
<td></td>
</tr>
</tbody>
</table>
Why are intitle: searches important?

- Title tags define the document. The title of a webpage is one of the most important "on-page" factors considered by Google when ranking a webpage.
Top Level Domain-Limited Search

- Top Level Domain-limited Search – Returns results from the top level domain specified in the query; for example, .edu, .gov, or .org.
More Powerful than a Locomotive: Using Graphic Novels to Motivate...

Jun 14, 2011 - Graphic Novels and Struggling Male Adolescent Readers ... I implemented a graphic novel book club at a middle school in central Virginia. Schwertner (2003) stated that the term graphic novel was coined by artist/writer Will Eisner in 1978. A graphic novel is a book ... began to think of those students who were not motivated readers and those who didn’t ...... having a group of male reluctant readers and female reluctant readers. ...... and creating middle school readers.

Motivating Reluctant Readers through Graphic Novels: An Action Research Study

(2008) Cited by 2 - Related articles

[PDF] 573 An Online Graphic Novel: Students’ Experiences and Research

jolt.merlot.org/ ролито/online/motivation/spell.pdf

by B del Alfabetismo - Related articles

stimulate interest and motivation, where students learn .... and intrinsic reading motivation scores. .... significant difference in the number of books read by female and male students. ...... Motivating middle school readers: the graphic novel link.
Let’s do a TLD-Limited Search!

<table>
<thead>
<tr>
<th>Query</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>intitle:</strong>“read aloud” AND strategies AND &quot;best practices&quot; AND **site:**edu</td>
</tr>
<tr>
<td>“read aloud” AND strategies AND &quot;best practices&quot; AND **site:**edu</td>
</tr>
<tr>
<td><strong>intitle:</strong>“read aloud” AND strategies AND &quot;best practices&quot; AND **site:**org</td>
</tr>
<tr>
<td>“read aloud” AND strategies AND &quot;best practices&quot; AND **site:**org</td>
</tr>
</tbody>
</table>
# Top Level Domains (TLDs)

<table>
<thead>
<tr>
<th>TLD</th>
<th>Purpose</th>
</tr>
</thead>
<tbody>
<tr>
<td>.com</td>
<td>Commercial</td>
</tr>
<tr>
<td>.edu</td>
<td>Educational</td>
</tr>
<tr>
<td>.gov</td>
<td>Government</td>
</tr>
<tr>
<td>.mil</td>
<td>Military</td>
</tr>
<tr>
<td>.net</td>
<td>Network</td>
</tr>
<tr>
<td>.org</td>
<td>Organization</td>
</tr>
<tr>
<td>.us</td>
<td>United States</td>
</tr>
</tbody>
</table>

There are more than 800 top level domains; to see a list go to: [http://www.iana.org/domains/root/db](http://www.iana.org/domains/root/db)
k12.va.us Site-Limited Query

- **k12.va.us-limited Search** - Restrictions the results to only Virginia DOE webpages or Virginia school divisions with k12 in their webpage URL.
k12.va.us-limited Search Results

About 37 results (0.10 seconds)

[PDF] Library Information Skills Curriculum Guide, K-5 - Ports... pps.k12.va.us/uploadedFiles/About/Departments/.../LIS_Curriculum.pdf

Library Media Specialists play a critical role in teaching these essential skills. ... Portsmouth City Public Schools – Information Skills Objective

Information Skills Curriculum - Charlottesville City Schools
www.ccs.k12.va.us/departments/ims/ims_curriculum.html

The current CCS curriculum attempts to target basic skills related to finding and using .... using the Big 6 research model with classroom and library instruction.

[DOC] HHS Library Policy Manual Instruction The librarians car... staff.harrisonburg.k12.va.us/~sparks/Policy%20Manual/Instruction.doc

Teacher. The librarians instruct students and faculty in research skills and and information management. ... Other library instruction is given

[PDF] TAZEWELL COUNTY PUBLIC SCHOOLS
webpages.tazewell.k12.va.us/.../job.../library_media_specialist.pdf

use, library instruction, school wide use, replacement of outdated equipment. • Replacement ... Grolier, Gale Group. KNOWLEDGE, SKILLS AND ABILITIES.
Let’s do a K12.va.us-Limited Search!

<table>
<thead>
<tr>
<th>Query</th>
<th># of Results</th>
</tr>
</thead>
<tbody>
<tr>
<td>&quot;graphic novels&quot; AND reading AND motivation AND boys AND site:k12.va.us</td>
<td></td>
</tr>
<tr>
<td>&quot;read aloud books&quot; AND recommendations AND site:k12.va.us</td>
<td></td>
</tr>
<tr>
<td>&quot;reading literacy&quot; AND skills AND games AND site:k12.va.us</td>
<td></td>
</tr>
</tbody>
</table>
A Very Useful Site-limited Search

"teacher resources" AND "elementary school" AND site:rockingham.k12.va.us

"teacher resources" AND "middle school" AND site:rockingham.k12.va.us

"teacher resources" AND "high school" AND site:rockingham.k12.va.us
Searching ERIC with Google

Type of search query – **Site-limited** search of one website.

- Restricts the results to only ERIC.ed.gov content
- **Syntax – site:eric.ed.gov**

www.eric.ed.gov
ERIC Site-Limited Boolean AND Search

- All results will be from the ERIC website.
NOTE

The 91 search results are from the ERIC database of educational research articles and the 2\textsuperscript{nd} result is a full-text PDF; the 1\textsuperscript{st} and 3\textsuperscript{rd} results are only abstracts.
The PDF Filetype-Limited Search

- A fairly good guarantee that the ERIC document will be full text.

"graphic novels" AND motivation AND boys AND site:eric.ed.gov AND filetype:pdf
About 81 results (0.48 seconds)

[PDF] Fifth Graders' Enjoyment, Interest, and Comprehension of Graphic ...  
files.eric.ed.gov/fulltext/EJ1053749.pdf  
This study examined the efficacy of graphic novels, compared to heavily illustrated .... motivation and engagement for young readers; using graphic novels in the ...

[PDF] Multimodality in Malaysian Schools: The Case for the Graphic ...  
files.eric.ed.gov/fulltext/EJ1085907.pdf  
by TR Rajendra - 2015 - Related articles  
Graphic novels; Comics; Visual literacy; Multimodality; Multi- ... more readers as “the digitalization of the young adult mind is happening at a faster pace ..... novels The Kampong Boy (1979) and Town Boy (1987) expose the nuances of ...

[PDF] Why boys don't like to read - Big League Book Club  
files.eric.ed.gov/fulltext/ED519285.pdf  
Feb 18, 2009 - can diminish motivation for boys, who share social affiliation with ... non-fiction, humour, comics, graphic novels, action-
"reading strategies" AND elementary students" AND site:youtube.com

intitle:"reading strategies" AND elementary students" AND site:youtube.com

“reading comprehension strategies” AND site:youtube.com

"reading strategies" AND “at-risk students" AND site:youtube.com
Why should I do site searches?

- Quicker way to navigate a website
- Searcher can use Google syntaxes to define precisely the information need
  - Boolean AND/OR
  - intitle: syntax
  - filetype:ppt and/or filetype:pdf
URL-limited Searches

- **URL Field Search** (*inurl:*): Returns results with the terms in the webpage address. Terms in the webpage address may function like a descriptor of the webpage content.
inurl Search Results

NOTE
All the results have k12 in the url and the phrases middle school and library instruction in the snippets.
Your turn to search!

Can you identify the states from the webpage addresses?

<table>
<thead>
<tr>
<th>Query</th>
<th># of Results</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>inurl:k12 AND &quot;graphic novel&quot;</code></td>
<td></td>
</tr>
<tr>
<td><code>inurl:k12 AND &quot;graphic novel&quot; AND &quot;middle school&quot; AND motivate</code></td>
<td></td>
</tr>
<tr>
<td><code>inurl:k12 AND &quot;graphic novel&quot; AND &quot;middle school&quot; AND motivate AND boys</code></td>
<td></td>
</tr>
</tbody>
</table>
Searching Other Countries with Google

- *Country-code Top Level Domain (ccTLD)*
  - A ccTLD is a unique two letter string assigned to a country or other geographical area to identify it in a webpage address.
Limiting Results to Another Country

- Syntax – site:(ccTLD)

"john locke" AND "thomas jefferson" AND "declaration of independence" AND site:uk
The sequence .ac (short for academia) is used in many countries for academic institutions. In the United Kingdom academic institutions use domain names ending in .ac.uk.
Country Codes Source

Root-Zone Whois Information

Index by TLD Code

a b c d e f g h i j k l m n o p q r s t u v w x y z

.ac – Ascension Island
.ad – Andorra
.ae – United Arab Emirates
.af – Afghanistan
.ag – Antigua and Barbuda
.ai – Anguilla
.al – Albania
.am – Armenia
.an – Netherlands Antilles
.ao – Angola
.ag – Antarctica
.ar – Argentina
.as – American Samoa
.at – Austria
.au – Australia

http://tinyurl.com/8qauf
Reducing the Number of Results

Search: "middle school" AND "book recommendations" AND boys

Search tools

About 35,900 results (0.38 seconds)

Filter:
- Any time
- Past year

Search tools
Reducing the Number of Results

To display the number of results in the “Past year” Select Search tools

How many results are there in the “Past year”?
To Return to the First Results Page

Select “Search tools” followed by “Clear” to return to the first results page.
Link Checking

Syntax – **link:**(web address)

- **Link** Checking returns webpages linked to a website or a webpage.
Link Check Results

- [PDF] Resources for the School Librarian - William Paterson University

- [DOC] Handout
  www.longwood.edu/...TopicsandTrendstoEmpowerLearners.d... - Longwood University - Aug 23, 2009 - Sample available at http://www.ala.org/aasl/... Library Media Connection 28(1), 14, 16. School Libraries in Research, 8. and reading, presenting elementary level reading strategies and secondary level...

- [PDF] Addressing Reading Underachievement in African American Boys...
  scholarworks.wmich.edu/cgi/viewcontent.cgi?article=3062&context=reading... - by T Husband - Cited by 3 - Related articles
  differences might impact African American boys, I review the extant research on ... 215). There is a strong correlation between students' attitudes toward reading and the ways in which they... strategies are reading strategies that require readers to become active participants...
Your turn to search!

<table>
<thead>
<tr>
<th>Query (Use your school level in the query.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>link:www.ala.org/aasl/research</td>
</tr>
<tr>
<td>link:www.ala.org/aasl/research AND “reading strategies” AND “teacher librarian”</td>
</tr>
<tr>
<td>link:www.ala.org/aasl/research AND “reading strategies” AND “elementary school” AND &quot;teacher librarian&quot;</td>
</tr>
<tr>
<td>link:www.ala.org/aasl/research AND &quot;reading strategies&quot; AND &quot;elementary school“ AND &quot;teacher librarian“ AND site:edu</td>
</tr>
</tbody>
</table>
We have learned to find ...

- Search terms on a webpage with:
  - Keywords
  - Phrases
  - Boolean Expressions

- Search terms in a specific location in the structure of the webpage:
  - Title of the webpage
  - Webpage address (URL) – similar to a descriptor or subject heading
What have we learned?

- Limit searches to a Top Level Domain
  - Why? That domain may be concerned with your topic.

- Specific Sites
  - k12.va.us
    - Why? The site may be developed by topic specialists.

- Country Code Top Level Domains (ccTLD)
  - Countries – Is the issue of concern worldwide?
Recommendation for Searching

- Begin with a title field search - `intitle: “your topic”`

- Add Boolean expressions – **AND** or **OR** descriptors

- Limit the results to a top level domain or country with **site:**
  - Associations or Organizations - `.org`
  - Educational Institutions - `.edu`
  - U.S. Government - `.gov`

- Specific website.
  - `site:k12.va.us`
# Query Syntax Help Sources

<table>
<thead>
<tr>
<th>Title</th>
<th>URL</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td><a href="http://tinyurl.com/23xy4cm">http://tinyurl.com/23xy4cm</a></td>
</tr>
<tr>
<td>DuckDuckGo</td>
<td>See <strong>Syntax</strong> at</td>
</tr>
<tr>
<td></td>
<td><a href="https://duck.co/help/results/syntax">https://duck.co/help/results/syntax</a></td>
</tr>
<tr>
<td>exalead</td>
<td><a href="http://www.exalead.com/search/web/search-syntax/">http://www.exalead.com/search/web/search-syntax/</a></td>
</tr>
<tr>
<td></td>
<td><a href="http://tinyurl.com/4k3uzu7">http://tinyurl.com/4k3uzu7</a></td>
</tr>
<tr>
<td>Google</td>
<td><a href="https://sites.google.com/site/gwebsearcheducation/advanced-operators">https://sites.google.com/site/gwebsearcheducation/advanced-operators</a></td>
</tr>
<tr>
<td></td>
<td><a href="http://tinyurl.com/6676abd">http://tinyurl.com/6676abd</a></td>
</tr>
</tbody>
</table>