# Google Advanced Search Operators

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Advanced Search Operators

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Here, in one place, are all of the currently documented advanced search operators. Note that some operators come in two versions of the same operator: (e.g., allinanchor along with inanchor:). I've written about them together rather than having two entries for the same kind of operator. (But, in truth, I almost never use the "allin" form.)

Note: In this document, I follow the square brackets convention, here a query is surrounded by square brackets. So, when doing the query you wouldn't actually use the square brackets in your query. (Although it won't hurt anything either...) Example:

[ codfish site:nytimes.com ]

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allinanchor:	/ inanchor:		
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-- Google restricts results to pages containing all query terms in the anchor text on links to the page. For instance: [ allinanchor: best restaurant Sunnyvale ] will return only pages in which the anchor text on links to the pages contain the words best "restaurant" and "Sunnyvale" [ that is, all of the words following the allinanchor operator. So, when using allinanchor: in your query do not include any other search operators. By contrast, using the operator inanchor: only searches for the term that's next. (This is

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true for all of the "all" operators.) Example: [inanchor:sales offer 2011] will search only for "sales" in the anchor text.

Definition: Anchor text is the text you see on a page that is linked to another web page

or a different place on the current page. For instance, this sample link has "sample link" as its anchor text. When you click on anchor text, you will be taken to the page or place on the page to which it is linked.

Example: [allinachor: best restaurant La Jolla ocean view] - search for those terms in the anchor

allintext: / intext:

-- restricts results to those containing all the query terms you specify in the text of the page. For example, [ all intext: camping tent stove] will return only pages in which the words "camping" tent and "stove" appear in the text of the page. Using the operator "intext: will search only for the next term in the text of the page. (Note: using intext: in front of every word in your query is the same as using all intext: at the front of your query e.g., [ intext: Victorian intext: artists ] is the same as [ all intext: Victorian artists ].

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Example: [ allintext:mesothelioma asbestos symptoms ] - search for all those terms on the page

allintitle: / intitle:

- results to those containing all the query terms you specify in the title. For example, [allintitle: university relations] will return only documents that contain the words "university" and "relations" in the title of the page. Using the operator intitle: will search only for the next term in the title of the page. For instance, [flu shot intitle:help] will return documents that mention the word help in their titles, and mention the words "flu" and "shot" anywhere in the document (title or not).

allinur: / inur:

-- restricts results to those containing all the guery terms you specify in the UPL. For example, I allinurligoogle faq I will return only documents that contain the words google and "faq in the UPL, such as "www.google.com/help/faq.html".

term AROUND a term2

-- limits results to those documents where terms appears within a certain number of words of term2. For instance,

# [ search AROUND 3 engine ]

will find only documents that have the words "search" within 3 words of "engine" I this is particularly useful when searching for common words that are relevant to your search only when in close proximity. (For instance, useful for finding two names in close quarters: ["Politician Surname" AROUND 5 "Major Donor" I) Note that this doesn't preserve order: it will find "engine search" and search engine"

before:

-- lets you find results that were published before a given date. Example:

[avengers endgame before:2018-1-1]

where the date is YYYY-MM-DD - note that if you only specify the year, it will default to the first of that year.

define

-- gives definitions from pages on the web for the term that follows. Useful for finding

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definitions of words, phrases, and acronyms. For example, [ define peruse ] will give a definition of the word peruse. This also works for many phrases, (Note: This operator used to be "define" -- we got rid of the colon a while ago.)

[ define Hobson's choice ]

filetype:suffix

-- limits results to pages whose names end in suffix. The suffix is anything following the last period in the file name of the web page and can be many characters in length.

Example: [ search engine guidelines filetype:pdf] will return Adobe Acrobat pdf files that match the terms "search," "engine," guidelines," and are pages whose names end with pdf. Note that the filetype: operator works with any string after the last period, thus this works: [filetype:1234567] Not useful too often, unless you know the final string of a document.

[ filetype:pptx superconductor lesson plan]

Fill in the blanks (\* - the "star operator")

- the \*, or wildcard, is a little-known feature that can be quite useful. If you include \* within a query, it tells Google to try to treat the star as a placeholder for any unknown term(s) and then find the best matches, up to 5 terms in length. For

Example: [Google \* ] will give you results about many of Google's products (go to next page and next page -- we have many products). The query [Obama voted \* on the \* bill ] will give you stories about different votes on different bills. Note that the \* operator works only on whole words, not parts of words. (See one of the Search Idioms below for an advanced use of \* in a quoted query, such as ["Google \* products"].)

inanchor: (see allinanchor: above)

intext: (see allintext: above)

intitle: (see allintitle: above)

inur!: (see allinur!: above)

Minus sign ( 1 ) to exclude

-- placing a minus sign immediately before a word indicates that you do not want pages that contain this word to appear in your

results. The minus sign should appear immediately before the word and should be preceded with a space. For example, in the query [anti-virus software], the minus sign is used as a hyphen and will not be interpreted as an exclusion symbol; whereas the query: [anti-virus [software] will search for the words anti-virus but exclude references to software. You can exclude as many words as you want by using the [sign in front of all of them for example [jaquar [cars [football [os]]. The [sign can be used to exclude more than just words. For example, place a minus sign before the site: operator (without a space) to exclude a specific site from your search results.

# Number range (..)

The number range operator searches for results containing numbers in a given range. Just add two numbers, separated by two periods, with no spaces, into the search box along with your search terms. Example: [Willie Mays 1950.1960] You can also specify a unit of measurement or some other indicator of what the number range represents. For example, here's how you'd search for a DVD player that costs between \$50 and \$100:

# [ DVD player \$50.\$100]

OR

-- the Boolean operator OR specifies alternatives to use as synonyms in search. For instance, the query:

[mesotheliona OR "lung disease" treatment]

could be used to search for a treatment for either mesothelioma or the quoted phrase "lung disease" (Be sure to make the OR all uppercase. Lowercase or doesn't work.) Note that OR works inside of a quoted phrase. That is, a query like [ jackfruit OR papaya"] is not a phrase search it's the same as [ jackfruit OR papaya]

Phrase search (using double quotes, "[")

-- by putting double quotes around a set of words, you are telling Google to consider the exact words in that exact order without any change. Google already uses the order and the fact that the words are together as a very strong signal and will stray from it only for a good reason, so quotes are usually unnecessary. By insisting on phrase search you might be missing good results accidentally for

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example, a search for ["Alexander Bell"] (with quotes) will miss any pages that refer to Alexander G. Bell.

Try this to see how it works:

["Alexander \* Bell"]

-- this will give you results like "Alexander Graham Bell" and Alexander G. Bell" and

"Alexander le Bell"

Search exactly as is (double quotes around a single word) - aka [phrase search

-- Google employs synonyms automatically, so that it finds pages that mention, for example, childcare for the query [ child care ] (with a space), or California history for the query [ ca history ]. But sometimes Google helps out a little too much and gives you a synonym when you don't really want it. By attaching double quotes around a word as in the query

["ca" history]

you are telling Google to match that word precisely as you typed it. Note that you can put double quotes inside of double quotes, as in:

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# [ "words that are "mispelled" by ]

this query searches for the phrase words that are mispelled by -- but the term "mispelled" is intentionally misspelled. (Get it?)

site:

search results to the site or domain you specify. For example, [ penquins site: aq ] will search for pages about penquins from web sites that have an AQ top-level domain name. (AQ is Antarctica, and is mostly research stations located there.) A query like [ accidents site:bls.gov ] will find pages about accidents within the bls.gov domain (BLS = Bureau of Labor Statistics). You can specify a domain with or without a period, e.g., either as .gov or gov.

related:

-- a search for related: UPL lists pages that are similar to the web page you specify. For instance, [ related: en. wikipedia.org] will list web pages that are similar to the Wikipedia homepage. (Caution: This is in the process of being deprecated. August, 2019)

### Combinations of operators:

-- many of the search operators [, OF, and "can be combined. For example, to find articles on security from all sites except Wikipedia.org you would search for:

Similarly, you might want to exclude some kinds of documents with a search such as [ salsa recipe -tomatoes -filetype:pdf ] which would find salsa recipes that do not include the term "tomatoes" and are not PDF files.

More advanced search options:

-- Note that the Advanced Search page (http://www.google.com/advanced search) also provides a set of search options that are not available as special operators. Using the Advanced Search page you can also:

- filter by language (e.g., find pages only in Spanish, Chinese, German, etc.)

- date (filter by time)

- usage rights (filter by Creative Commons license)

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- reading level (find pages that are Basic, Intermediate or Advanced reading levels)

Handy search idioms:

-- a "search idiom" is a particular way of doing a search that's sometimes really handy. Idiom 1: Site minus site. A search like:

[ site:nyc.gov -site:www.nyc.gov ] will give you sites in NYC.gov that do NOT begin with WWW.

That's handy for finding subdomains within a particular site, which can you then use site: to search.

Idiom 2: Stars in quoted phrase. A query like whenever \* says \* whenever I looks for words in roughly that sequence. But if you really want words in that order (and this is what I usually do), you want to use the stars within a quoted phrase.

Example: ["whenever \* says \* whenever"] is a very different query. Look at them side-by-side. The one on the right is a much better query for my money.

Idiom 3: Stars in site search

A search like [ site: \*! law \*\* tedy ] will find all of the .EDU sites with "law" in the domain name.

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Also try: [ site: \*.nyc.gov ] will match all of the NYC.gov sites with a subdomain.

Also: [site:x.nasa.x inurl:education] gives lots of good clues about education sites at NASA.

Generally, a \* matches any token (that is, an entire term without spaces). A token would be something like: www nasa gov schools spartan-resume

So you can always replace a token in a UPL by a \*, and it will match ANY token that can/would fit into that position.

But, oddly enough, \* also matches prefix strings before tokens. except for the TLD (the last term in a UPL).

Thus, queries like this will work:

[ site:www.xcreative.com ] -- will match sites like

www.av-creative.com

www.aquila-creative.com

While queries like:

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[ site:www.\*creative.\* ] -- will also work to show sites like

www.dei-creative.biz

www.afr-creative.com

Oddly the \* doesn't seem to match anything in the post position (e.g., [ site: foot.com ]). I can imagine why that's true (it's easier to match if it's prefix \*).

#### NOTES:

If you've read this far, you're a true Search Nerd. Nicely done.

Special characters: Not long ago, only a few very special characters were searchable. These days, almost all of them are searchable! You can now search for I Note that a few symbols: \$ % # are special-special and can be searched for as part of a term (e.g., #cute or \$50 or 24%). See "Number Pange" above.

Another special-special character is: (colon). You CAN search for things that look like this:

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[10:27] (useful mostly for Bible verses).

But generally speaking, you can search for extended characters.

Examples:

[INY]

[ ] pub ] or, the logical extension of this: [ ] nagano site: jp ]

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(But note that the [ character will be sunonymized to 0.5 as well, so you might find 7.5 as well as 7 - if you don't want the sunonyms, use Verbatim mode OP the double quote operator).

A special-special character is + -- you can now search for special terms that we have with a plus character in it in the last position. Examples:

[G+]

[ (++ ]

[Coke+]

[timer+]

[40+] -- and other numbers (20+,30+, 55+, etc.)

Parentheses don't matter: I know lots of people want to be able to do something like this:

# [(AB) OR (CD)]

but Google doesn't see the parens, and that gets turned into:

#### [ABORCD]

which means just A, (BOPC) and D. If you want to get [AB] OP [CD] you'll have to do 2 separate searches and combine the results yourself, which is probably what you really want to do. Why doesn't Google support this? Because we've found that most people get it wrong. That is, when they use parens, they end up with a search that is much worse than if Google ignores the parens. (I've seen this in my own field studies, even among information professionals-people mess up the parens a LOT.)

Word order: Yes, word order matters in a search Consider the difference between the

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searches: [to be or not to be] vs. [be to not or be to] -- the results are VERY different.

Deprecated:

Link: (taken out of service mid-2016)

-- link:UPL shows pages that point to that UPL.

-- For example, to find pages that point to Google's 3DWarehouse home page you used to search for

[ link: http://sketchup.google.com/3dwarehouse/

But it was getting really abused, so Google had to remove it from general use.

Info: removed in mid-2017

Plus (+) operator: And you're probably wondering what happened to the + operator. Well, here's the story.

It USED TO MEAN the same as Verbatim (i.e., do not spell correct, and use no

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synonyms). Then, during the age of Google-+ (G+) it used to be a flag for "Search G+ for mentions of this term." But that interpretation is long gone.

Synonym () tilde operator: This used to let searchers ask for and all the synonyms of a term. (example: [mesothelioma] would search for mesothelioma and all of its synonyms. That was removed because synonyms is always turned on these days. It would just be redundant.