

Operator Examples	
Operator Example	Finds Pages Containing
sailboat chesapeake bay	the words sailboat , Chesapeake and Bay
sloop OR yawl	either the word sloop or the word yawl
"To each his own"	the exact phrase to each his own
virus -computer	the word virus but NOT the word computer
Star Wars Episode +III	This movie title, including the roman numeral III
~boat loan	loan info for both the word boat and its synonyms: canoe , ferry , etc.
define :sarcastic	definitions of the word sarcastic from the Web
mac * x	the words Mac and X separated by exactly one word
I'm Feeling Lucky (Google link)	Takes you directly to first web page returned for your query

Search Parameters		
Search Parameters	Value	Description of Use in Google Search URLs
q	the search term	The search term
filter	0 or 1	If filter is set to 0, show potentially duplicate results.
as_epq	a search phrase	The value submitted is as an exact phrase. No need to surround with quotes.
as_ft	i = include e = exclude	The file type indicated by as_filetype is included or excluded in the search.
as_filetype	a file extension	The file type is included or excluded in the search indicated by as_ft .
as_occt	any = anywhere title = page title body = text of page url = in the page URL links = in links to the page	Find the search term in the specified location.
as_dt	i = include e = exclude	The site or domain indicated by as_siteseach is included or excluded in the search.
as_siteseach	site or domain	The file type is included or excluded in the search indicated by as_dt .
as_qdr	m3 = three months m6 = six months y = past year	Locate pages updated with in the specified time frame.



Purpose

This document aims to be a quick reference outlining all Google operators, their meaning, and examples of their usage.

What to use this sheet for

Use this sheet as a handy reference that outlines the various Google searches that you can perform. It is meant to support you throughout the Google Hacking and Defense course and can be used as a quick reference guide and refresher on all Google advanced operators used in this course. The student could also use this sheet as guidance in building innovative operator combinations and new search techniques.

This sheet is split into these sections:

- Operator Examples
- Advanced Operators
- Number Searching
- Calculator Operators
- Search Parameters

References:

- <http://www.google.com/intl/en/help/refinerearch.html>
- <http://johnny.ihackstuff.com>
- <http://www.google.com/intl/en/help/cheatsheet.html>

Advanced Operators		
Advanced Operators	Meaning	What To Type Into Search Box (& Description of Results)
site:	Search only one website	conference site:www.sans.org (Search SANS site for conference info)
[#]...[#] or numrange:	Search within a range of numbers	plasma television \$1000...1500 (Search for plasma televisions between \$1000 and \$1500)
date:	Search only a range of months	hockey date: 3 (Search for hockey references within past 3 months; 6 and 12-month date-restrict options also available)
safesearch:	Exclude adult-content	safesearch: sex education (Search for sex education material without returning adult sites)
link:	linked pages	link:www.sans.org (Find pages that link to the SANS website)
info:	Info about a page	info:www.sans.org (Find information about the SANS website)
related:	Related pages	related:www.stanford.edu (Find websites related to the Stanford website)
intitle:	Searches for strings in the title of the page	intitle:conference (Find pages with "conference" in the page title) +1
allintitle:	Searches for all strings within the page title	allintitle:conference SANS (Find pages with "conference" and "SANS" in the page title. Doesn't combine well with other operators)
inurl:	Searches for strings in the URL	inurl:conference (Find pages with the string "conference" in the URL)
allinurl:	Searches for all strings within the URL	allinurl:conference SANS (Find pages with "conference" and "SANS" in the URL. Doesn't combine well with other operators)
filetype: or ext:	Searches for files with that file extension	filetype:ppt (Find files with the "ppt" file extension. ".ppt" are MS PowerPoint files.)
cache:	Display the Google cache of the page	cache:www.sans.org (Show the cached version of the page without performing the search)
phonebook: or rphonebook: or bphonebook	Display all, residential, business phone listings	phonebook:Rick Smith MD (Find all phone book listing for Rick Smith in Maryland. Cannot combine with other searches)
author:	Searches for the author of a newsgroup post	author:Rick (Find all newsgroup postings with "Rick" in the author name or email address. Must be used with a Google Group search)
insubject:	Search only in the subject of a newsgroup post	insubject:Mac OS X (Find all newsgroup postings with "Mac OS X" in the subject of the post. Must be used with a Google Group search)
define:	Various definitions of the word or phrase	define:sarcastic (Get the definition of the word sarcastic)
stock:	Get information on a stock abbreviation	stock:AAPL (Get the stock information for Apple Computer, Inc.)

Number Searching	
Number Searching	Description
1Z9999W999999999999	UPS tracking numbers
999999999999	FedEx tracking numbers
9999 9999 9999 9999 9999 99	USPS tracking numbers
AAAAA999A9AA99999	Vehicle Identification Numbers (VIN)
305214274002	UPC codes
202	Telephone area codes
patent 5123123	Patent numbers (Remember to put the word "patent" before your patent number)
n199ua	FAA airplane registration numbers (An airplane's FAA registration number is typically printed on its tail)
fcc B4Z-34009-PIR	FCC equipment IDs (Remember to put the word "fcc" before the equipment ID)

Calculator Operators		
Operators	Meaning	Type Into Search Box
+	addition	45 + 39
-	subtraction	45 - 39
*	multiplication	45 * 39
/	division	45 / 39
% of	percentage of	45% of 39
[^]	raise to a power	2⁵ (2 to the 5th power)