













## Google Advanced Search - Lexicon

Terminology	Definition	Examples
Expression	<p>An <b>expression</b> is a word or grouping of words bound together.</p> <p>An <b>expression</b> becomes an <b>operand</b> when it's used by a <b>logical operator</b> or a <b>specifier</b>.</p>	<ul style="list-style-type: none"> <li>▪ <b>dog</b> ⇒ expression: 'dog'</li> <li>▪ <b>red OR intext:blue</b> ⇒ expressions of OR: 'red', 'intext:blue' ⇒ expression of 'intext:' is 'blue'</li> </ul>
Logical operator	<p>A <b>logical operator</b> connects two operands together.</p> <p>A <b>logical operator</b> sets the conditions for a search result to be true.</p> <p>If a search result meets the conditions or some of them, it will be considered as true.</p>	<ul style="list-style-type: none"> <li>▪ <b>dog OR cat</b>  ⇒ operands: 'dog', 'cat' ⇒ logical operator: OR ⇒ A search result is true if it contains 'dog', 'cat' or both. It's false otherwise.</li> </ul>
Operand	<p>An <b>operand</b> is a single expression used by a <b>logical operator</b> or <b>specifier</b>.</p> <p>An <b>operand</b> is used to specify which search results are true or false.</p>	<ul style="list-style-type: none"> <li>▪ <b>dog OR cat</b> ⇒ operands: 'dog', 'cat'</li> <li>▪ <b>filetype:pdf</b> ⇒ operand: 'pdf'</li> <li>▪ <b>inurl:blue OR inurl:red</b> ⇒ operands of OR: 'inurl:blue', 'inurl:red' ⇒ operand of 1<sup>st</sup> 'inurl:': is 'blue' ⇒ operand of 2<sup>nd</sup> 'iurl:': is 'red'</li> </ul>
Specifier	<p>A <b>specifier</b> is a special rule to filter out non-matching search results</p> <p>A <b>specifier</b> uses operands to specify their rule.</p> <p>Some <b>specifiers</b> can be used as <b>expressions</b> by <b>logical operators</b>.</p>	<ul style="list-style-type: none"> <li>▪ <b>filetype:doc</b> ⇒ specifier: 'filetype:.'</li> <li>▪ <b>site:twitter.com</b> ⇒ specifier: 'site:.'</li> <li>▪ <b>10..100</b> ⇒ specifier: '..'</li> </ul>











## Cheatsheet - Google Logical Operators

















Operator	How is it implemented?	True when	False when	How many operands?
AND	<operand><space><operand>	Two operands in result	One/Two operands not in result	2 (binary)
<div> <div>dog cat</div> <div>Monday Tuesday Wednesday</div> </div>				
OR	<operand> OR <operand> <operand>   <operand>	One/Two operands in result	No operand in result	2 (binary)
<div> <div>dog OR cat</div> <div>Monday   Tuesday   Wednesday</div> </div>				
NOT	-<operand>	Operand not in result	Operand in result	1 (unary)
<div> <div>dog -cat</div> <div>Monday -Tuesday Wednesday</div> </div>				











## Cheatsheet - Common Specifiers

Specifier	How is it implemented?	True when	False when..	How many operands?
Exact match	"<operand>"	Result contains exact or partial match	No match found	n-ary (>0)
<div> <div>"I want an exact match"</div> <div>   </div> </div> <div> <div>"I want A.." "and B.." OR "and ..C"</div> <div>   </div> </div>				
Placeholder	'<op> * <op>'	Exact/partial match for the operands + same word order	No match (word/order) found	n-ary (>0)
<div> <div>a * cat</div> <div>   </div> </div> <div> <div>"the * sky"</div> <div>   </div> </div>				
Range	Double dots (..)	Result with a numerical value within the range	No match found	2 (two)
<div> <div>10..100</div> <div>   </div> </div> <div> <div>"iphone" -amazon \$100..\$200</div> <div>   </div> </div>				













## Google Advanced Search - Shortcuts

Specifier	How is it implemented?	Information you get	How many operands?
Definition	define:<operand> define <operand>	An English's word definition	One operand ⇒ The word to define
<div>define:word  </div> <div>define word  </div>			
Translation	translate:<word> <target language> translate <word> <target language> translate <word> to <target language>	Translation of a word to target language	Two operands ⇒ The word to translate ⇒ The target language
<div>translate:love french  </div> <div>translate love french  </div> <div>translate love to french  </div>			

Weather	weather:<operand> weather <operand> weather <operand>,<operand>	Weather of a given place	One/Two operands ⇒ Place ⇒ Additional info
<div>weather:paris  </div> <div>weather paris  </div> <div>weather paris,TX  </div>			
Location	locations:<operand> locations <operand> locations:<operand>,<operand>	The Google Map coordinates of a place	One/Two operands ⇒ Place ⇒ Additional info
<div>locations:berlin  </div> <div>locations berlin  </div>			
Time	time:<operand> time <operand> time:<operand>,<operand>	The current time and time zone of a given place	One/Two operands ⇒ Place ⇒ Additional info
<div>time:paris  </div> <div>time paris  </div> <div>time paris,TX  </div>			

Calculator	$\langle \text{math operand} \rangle \langle \text{math operator} \rangle \langle \text{math operand} \rangle$	The result of math calculations or function plotting	n-ary ( $>2$ ) $\Rightarrow$ 1 <sup>st</sup> math operand $\Rightarrow$ Math operator $\Rightarrow$ 2 <sup>nd</sup> math operand ...
<div>10 + 2  </div> <div><math>((((10 \cdot 2) / 5) \cdot 3\pi)) + 2</math>  </div> <div><math>f(x)=x^2, f(x)=\log(x)+5x</math>  </div>			
Converter	$\langle \text{value} \rangle \langle \text{unit} \rangle \langle \text{unit} \rangle$ $\langle \text{value} \rangle \langle \text{unit} \rangle$ to $\langle \text{unit} \rangle$	Equivalent numerical value in another unit of measurement	Ternary $\Rightarrow$ A numerical value $\Rightarrow$ A source unit of measurement $\Rightarrow$ A target unit of measurement
<div>10m ft  </div> <div>100 inches to feet  </div>			

## Cheatsheet - Site Specifiers

Specifier	How is it implemented?	True when	False when	How many operands?
Only from that URL	site:<operand>	Result has operand in URL	Result doesn't have operand in URL	One operand ⇒ URL
<div> <input iphone\""="" type="text" value="site:amazon.com \"/>   </div> <div> <input type="text" value="site:fr news"/>   </div>				
Only this type of file	filetype:<operand>	Document is of the given type	Document is not of the given type	One operand ⇒ filetype
<div> <input seo\""="" type="text" value="filetype:pdf \"/>   </div> <div> <input type="text" value="thesis filetype:doc"/>   </div>				
Get related URLs to another URL	related:<operand>	URL is related to the operand	URL is not related to the operand	One operand ⇒ URL
<div> <input type="text" value="related:twitter.com"/>   </div> <div> <input type="text" value="related:freelancer.com/contest/"/>   </div>				

Get a few links pointing to a URL	link:<operand>	URL points to the operand	URL doesn't point to the operand	One operand ⇒ URL
<div>link:mashable.com</div> <div>link:techcrunch.com/event-type/disrupt/</div>				
Get the cached version of a URL	cache:<operand>	URL has a cached version	URL doesn't have a cached version	One operand ⇒ URL
<div>cache:amazon.com</div> <div>cache:freelancer.com/contest/</div>				
Get the root domain and suggested specifiers of a URL	info:<operand>	Operand is a well-formed URL	Operand is not a well-formed URL	One operand ⇒ URL
<div>info:linkedin.com</div>				



## Cheatsheet - Metadata Specifiers

Specifier	How is it implemented?	True when	False when
One word in URL	inurl:<operand>	Operand in URL	No operand in URL
<div> <input type="text" value="inurl:algebra"/>   </div>			
Multiple words in URL	'allinurl:<operand>..<operand>'	All/some operands in URL	No operand in URL
<div> <input type="text" value="allinurl:algebra calculus"/>   </div>			
One word in title or URL	intitle:<operand>	Operand in title/URL	No operand in title/URL
<div> <input type="text" value="intitle:free"/>   </div>			
Multiple words in title or URL	allintitle:<operand>..<operand>	All/some operands in title/URL	No operand in title/URL
<div> <input type="text" value="allintitle:free pdf"/>   </div>			
One word in clickable text or URL	inanchor:<operand>	Operand in the clickable text or URL	No operand in clickable text or URL
<div> <input type="text" value="inanchor:cool"/>   </div>			

Multiple words in clickable text or URL	allinanchor:<operand>..<operand>	All/some operands in clickable text or URL	No operand in the clickable text or URL
<div><input type="text" value="allinanchor:best museums"/></div>			
One word in text or URL	intext:<operand>	Operand in text or URL	No operand in text or URL
<div><input type="text" value="intext:citation"/></div>			
Multiple words in text or URL	allintext:<operand>..<operand>	All/some operands in text or URL	No operand in text or URL
<div><input type="text" value="allintext:citation plato"/></div>			

## Cheatsheet - The Advanced Search Interface

**Advanced Search**

Find pages with...

all these words:

this exact word or phrase:

any of these words:

none of these words:

numbers ranging from:  to

To do this in the search box

Type the important words: tricolor rat terrier

Put exact words in quotes: "rat terrier"

Put a plus sign before the words you want: miniature OR standard

Put a minus sign just before words you don't want: -rodent, -"Jack Russell"

Put 2 periods between the numbers and add a unit of measure: 10..35 lb, \$300..\$500, 2010..2011

Then narrow your results by...

language:

region:

last update:

site or domain:

terms appearing:

SafeSearch:

file type:

usage rights:

Advanced Search

**The exact match**

**The « AND » operator**

**The « OR » operator**

**The « NOT » operator**

**The range specifier**

**The « site : » specifier**

**The Metadata specifiers**

**The « filetype : » specifier**