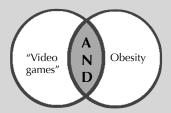


Save your time! Use Boolean operators for online searching. Get fewer, more targeted results.

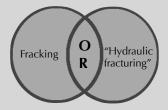
Boolean operators: And, Or, Not

Gray area = Search results

Type **And** between search terms to find web pages and articles that have **both terms**. This type of Boolean search limits your results and increases accuracy.



The **Or** operator increases your results. You won't use it often. It works best when searching specialized terms.



The **Not** (sometimes **And Not** or **But Not** - check the search tips) excludes terms that aren't relevant for your research.



Advanced search strategies

Phrase searching

Want to keep search words together in a specific order? Bind them using quotation marks. This helps when searching generic terms. Phrase searching tells search engines to "see" common **stop words** such as *a, and, are, be, the, at, on, of, for* that are filtered out to save search time. Phrases can be combined with Boolean operators.

- "to be or not to be"
- "financing college" **not** loans

Nesting search terms

When you're using keyword searching, you may want to search synonyms. Save time! "Nest" them in parentheses and add **or** operators:

- (firearms or guns) and safety
- ("Affordable Care Act" or Obamacare) and (cost or premium or expense)

Truncating search terms

Use an asterisk to fill in for part of the word if you want to quickly search:

- singular and plural forms of a word
- to find words that start with the same letters
- to find words that are spelled in more than one way such as color or colour

Example: child* retrieves child, child's, childhood, children, children's

Another example: When searching for World War I aircraft, truncate the search word **airplane** as *plane to get results that include plane, airplane, aeroplane, and biplane. Truncate twice — *plane* — to search for plural versions of all the words listed.

Truncation saves time and helps you avoid missing something important, but you will retrieve more results.

Tip: You'll get too many unrelated results if you truncate a term using only two or three letters. Consider how many very different words **car*** would retrieve!

Can I use Boolean operators when searching Google?



After you run a Google search, look for the gear symbol (shown above) on the upper right side of your search results. Click it and select **Advanced search**. The search boxes shown below on the left will appear, along with a list of shortcut search strategies you can use in the main Google search box.

Find pages with		To do this in the search box
all these words:	this is an And search	Type the important words: tricolor rat terrier
this exact word or phrase:	this binds your search terms to keep them together	Put exact words in quotes: "rat terrier"
any of these words:	this is an Or search	Type OR between all the words you want: miniature OR standard
none of these words:	this is a Not search	Put a minus sign just before words you don't want: -rodent, -"Jack Russell"