

NOTES ON GOOGLE SEARCH

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1 BOOLEANS AND BASIC OPERATORS

1.1 Booleans

expression1 expression2 → expression1 AND expression2.

expression1 | expression2 → expression1 OR expression2.

-expression → exclude expression.

(expression) → group several operators to control their order.

1.2 Character Strings

"word" → search for a word excluding synonyms.

"sentence" → search the exact sentence.

***** → wildcard in an expression.

n..m → all integers between n and m ($n < m$).

\$n → search a price in dollars.

€n → search a price in euros.

2 ADVANCED OPERATORS

2.1 Search by Field

intitle: expression → search expression in the title page.

inurl: expression → search expression in the URL.
intext: expression → search expression in the text.
site: address → search only in the address site;
related: address → search only sites related to adresse.
word1 AROUND(n) word2 → search only pages where word1 is at n words from word2.
filetype: extension → search only a particular type of file.

2.2 Multiple Operators

allintitle: expression → equivalent to a multiple intitle.
allinurl: expression → equivalent to a multiple inurl.
allintext: expression → equivalent to a multiple intext.

2.3 Main Indexed File Types

Available formats with the filetype instruction:

swf, pdf, ps → Adobe;
ps → Postscript;
html → HTML;
xls, xslx → Microsoft Excel;
ppt, pptx → Microsoft PowerPoint;
doc, docx → Microsoft Word;
ods, odp, odt → Open Office;
rtf → Rich Text Format;
svg → Scalable Vector Graphics;
tex → L^AT_EX;
txt → text files;
c, cc, cpp, cxx, h, hpp → C/C++ codes;
java → Java codes;
pl → Perl scripts;
py → Python codes;
f, f90 → Fortran codes;
xml → XML.

3 CALCULATOR

3.1 Basic Arithmetic

operators → +, -, *, /.
factorial → !.
modulo → %.
power → ^.

3.2 Functions

trigonometric → sin, cos, tan.
inverse trigonometric → arcsin, arccos, arctan.
hyperbolic → sinh, cosh, tanh, arccosh, arcsinh, arctanh.
logarithmic → exp, ln, log, sqrt.
f(x) → plot the function f.

3.3 Mathematical Constants

e → exponential of 1.
pi:: → π
i → square root of -1.

3.4 Physical Constants

amu → atomic mass unit.
au → astronomical unit.

k → Boltzmann constant.

eV → electron volt.

G → gravitational constant.

h → Planck constant.

c → speed of light.

3.5 Unit Conversion

x unit1 in unit2 → convert x from unit1 to unit2.

Currencies → USD, Euros, GBP, *etc.*

Masses → kg, g, lb, ton, *etc.*

Lengths → m, mile, feet, angstrom.

Surfaces → square kilometers, acres, hectares.

Volumes → gallon, l, teaspoon, pint.

Time → days, s, h, centuries, sidereal years, *etc.*

Electricity → volt, amp, ohm.

Energy → calorie, joule, erg.

Power → watt, kilowatt, horsepower.

Information → bits, bytes, kbytes.

Numerical bases → decimal, hex, octal, binary.
