# Basic Boolean Operators

<table>
<thead>
<tr>
<th>Operator</th>
<th>Symbol</th>
<th>Description</th>
<th>Examples</th>
</tr>
</thead>
</table>
| AND      | AND & | Useful for searching for terms that absolutely have to be in the results. | Investment AND research  
Investment & research |
|          |        | Interpreted as « both... and... ». | Finds documents containing both the term investment and the term research. |
|          |        | All terms linked by AND are in the results, no matter where they are in the text. | |
| OR       | OR | Useful for allowing alternatives in results. | Investment OR financing  
Investment | financing |
|          |        | Interpreted as « ... and/or... ». | Finds documents containing either (or both) of the terms investment or financing. |
|          |        | At least one of the terms linked with OR is in the results. | |
| WITHOUT  | WITHOUT ! | Useful for excluding terms. | Bank WITHOUT blood  
Bank ! blood |
|          |        | Interpreted as «... but not ... ». | Finds documents containing the term bank, but not the term blood. |
|          |        | The desired term is in the results, but the excluded term is not. | |
| Exact same phrase | - - | Useful for searching for a precise phrase. | "technological innovation" |
|          |        | Search is executed on the phrase, « as is ». | Finds documents containing precisely the terms technological and innovation side by side, in this order: technological innovation.  
Note: it won’t find technological innovations. |
|          |        | Truncation or declination cannot be applied; use OR to take variations into consideration. | |
| Truncation | * | Enables searching for terms beginning with the same string of characters. | manage* |
|          |        | Apply at the end of a string of characters containing a minimum of 4 characters. | Finds documents containing terms beginning by m-a-n-a-g-e, including: manage, manager, managers, management, etc. |
|          |        | Allows searching for everything that begins by... | |
| Declination | + | Enables searching for terms that are from the same family. | salary+  
sell+ |
|          |        | Apply at the end of a complete word. | The noun salary finds documents containing salary, salaries  
The verb sell finds documents containing sell, sells, selling, sold, etc. |
|          |        | Applied to a noun, it finds its plural and, in French, feminine forms. | |
|          |        | Applied to a verb, it finds all its forms in all tenses. | |

Note: Parenthesis can be use manually at any time. Use them to make sure operators are interpreted the way you want.

Examples:  
(fusion* OU merge+) AND (bank+ OR banque+ OR “financial institution”)  
(fusion* OU merge+) AND (bank+ OR banque+ OR “financial institution”)  
(food OU blood OU alimentaire+ OU sang)
### Advanced Boolean Operators

<table>
<thead>
<tr>
<th>Operator</th>
<th>Symbol</th>
<th>Description</th>
<th>Examples</th>
</tr>
</thead>
</table>
| Adjacency  | $x     | ▪ Useful for enhancing relevancy of results.  
▪ Acts as an « enriched » AND.  
▪ The $ symbol must be followed by a number.  0 is accepted.  
▪ Fixes the maximum number of words occurring between the two terms.  
▪ Search terms have to be in this order in the text. | public $1 advertisement  
Finds documents in which the term public appears before advertisement and in which a maximum of 1 word separates them:  
public advertisement, public awareness advertisement, public information advertisement, public service advertisement etc. |
| Proximity  | %x     | ▪ Useful for enhancing relevancy of results.  
▪ Acts as an « enriched » AND.  
▪ The % symbol must be followed by a number.  0 is accepted.  
▪ Determines the maximum number of words occurring between two terms.  
▪ Search terms have to be in the text, regardless of their order of appearance. | investments %4 textile  
Finds documents in which investments and textile, can appear in any order and where they are separated by a maximum of 4 words:  
investments in textile manufacturing, textile manufacturing investments, etc. |
| Paragraph  | @      | ▪ Useful for enhancing relevancy of results.  
▪ Acts as an « enriched » AND.  
▪ Must be used in between two terms.  
▪ Search terms have to appear in the same paragraph. | exports @ aerospace  
Finds documents containing both exports and aerospace in the same paragraph. |
| Sentence   | #      | ▪ Useful for enhancing relevancy of results.  
▪ Acts as an « enriched » AND.  
▪ Must be used in between two terms.  
▪ Search terms have to appear in the same sentence. | hiring # staff  
Finds documents containing both hiring and staff in the same sentence. |
| Frequency  | >x     | ▪ Useful for enhancing relevancy of results.  
▪ The > symbol must be followed by a number.  
▪ Fixes the minimum number of times a term should appear in text. | shareholders >2  
Finds documents in which the term shareholders appears more than two times, i.e. 3 or more occurrences. |

Note: Parenthesis can be use manually at any time. Use them to make sure operators are interpreted the way you want.

Examples:  
(fusion* OU merge+) @ (bank+ OR banque+ OR financi* %0 institution+)  
(fusion* OU merge+) @ (bank+ OR banque+ OR financi* %0 institution+) >2
BING™ search Boolean Operators

The search forms used by BING™ and Eureka.cc are different. Therefore, search strategies formulated in Eureka.cc are interpreted differently in BING™. Here is how BING™ behaves when it processes a query built in one of the search forms from Eureka.cc.

- The following operators are replaced by &: (and)
  - # (phrase)
  - @ (paragraph)
  - % (close)
  - $ (adjacency)

- ! (Without) is replaced by - (not)

- The operators & (and), | (or) remain unchanged.

- The following operators are removed from the query
  - + (declination)
  - * (truncation)
  - x (case)

- Where the operator is followed by a number, the number is removed from the query.

To view the search strategy as it was interpreted by BING™, click on “See the Query”.