

## **EXAMPLE**

### **Title: proximity search operator for fulltext search in Primo Central**

#### **Describe the functionality being requested:**

A proximity operator. e.g. ["yeast bread"~10] finds material where "yeast" and "bread" appear within 10 words of each other.

A proximity operator allows a researcher to specify that their search terms are present in records within a specified number of words from each other.

#### **Technical Requirements:**

This tool should primarily support PNX and equivalent record metadata (both Primo via Back Office and Primo VE deployment models), but ideally would also incorporate standard existing extensions to remote data where available, including table of contents, abstracts, and full text. See Idea Exchange submission:

<https://ideas.exlibrisgroup.com/forums/308176-primo/suggestions/19308214-proximity-search-operator-for-fulltext-search-in-p>

#### **Business reason that reflects the community or how all customers would benefit:**

The most powerful feature for full text search is proximity. Summon already incorporates this feature, performed by enclosing search terms in quotation marks and using tilde and the number distance, for example "yeast bread"~10 finds material where "yeast" and "bread" appear within 10 words of each other. See

[https://knowledge.exlibrisgroup.com/Summon/Product\\_Documentation/Searching\\_in\\_The\\_Summon\\_Service/Search\\_Features/Summon%3A\\_Boolean%2C\\_Phrase%2C\\_Wildcard\\_and\\_Proximity\\_Searching#proximity](https://knowledge.exlibrisgroup.com/Summon/Product_Documentation/Searching_in_The_Summon_Service/Search_Features/Summon%3A_Boolean%2C_Phrase%2C_Wildcard_and_Proximity_Searching#proximity)

Primo's search algorithm incorporates an out-of-the-box assignment of higher ranking to records where search terms are closer together, but a proximity search operator gives a researcher explicitly more control over precise targeting of their search, which would also help to build greater understanding and confidence that the results will meet their needs and aren't just from a mysterious "black box". With CDI coming soon to Primo, along with the massive increase in records, this trust building will be even more important to support researchers with tools to help sift through billions of results.

Proximity search is currently not supported nor planned in the Primo/Primo Central roadmap.

Although as part of the search engine algorithm the proximity is being calculated and records in which the query words are closer will be rank higher.

#### **User Story/Replication steps (with screenshots if applicable)**

Example of a search in Summon (without proximity operator):

Example of a search in Summon (with proximity operator):

Example of a search in Pimo (without proximity operator):

The screenshot shows a search interface with a dark red header. The search bar contains the text "yeast bread". To the right of the search bar are icons for "Multiple Resources" and a magnifying glass. Further right, the text "ADVANC" is partially visible. Below the search bar is a yellow banner with the text "Learn more about library services during the Covid-19 pandemic" and "Sign in to get complete results and to request items" with a "Sign in" button and a "DISMISS" button.

Below the banner, the search results are displayed. At the top left, it says "0 selected PAGE 1 38,668 Results" and "Personalize" with a toggle switch. The results are numbered 1, 2, and 3.

**Result 1:** An article titled "Impact of new ingredients obtained from brewer's spent yeast on bread characteristics". The authors are Martins, Z. E.; Pinho, O.; Ferreira, I. M. P. L. V. O. The publisher is New Delhi: Springer Science and Business Media LLC. The journal is "Journal of food science and technology", 2018, Vol.55 (5), p.1966-1971. The abstract snippet reads: "... spent yeast on physical characteristics was evaluated.  $\beta$ -Glucans extraction from spent yeast cell wall was optimized and the extract was incorporated on bread to obtain 2.02 g  $\beta$ -glucans/100...". It is marked as "PEER REVIEWED" and "OPEN ACCESS". A link for "Full text available" is provided.

**Result 2:** A book titled "The seaman's guide [electronic resource] : shewing how to live comfortably at Sea. Containing, among other particulars, complete directions for baking bread, Either with Yeast or Leaven, in all Situations. Recommended also to public bakers, as well as to private housekeepers. By the honourable John Cochrane." The author is Cochrane, John, active 1795-1797. The publisher is London : printed for J. Murray and S. Highley, No. 32, Fleet Street 1797. A link for "Online access" is provided.

**Result 3:** An article titled "Pilot Study: Comparison of Sourdough Wheat Bread and Yeast-Fermented Wheat Bread in Individuals with Wheat Sensitivity and Irritable Bowel Syndrome". The authors are Laatikainen, Reijo; Koskenpato, Jari; Hongisto, Sanna-Maria; Loponen, Jussi; Poussa, Tuija; Huang, Xin; Sontag-Strohm, Tuula; Salmenkari, Hanne; Korpela, Riitta. The publisher is Switzerland: MDPI AG. The journal is "Nutrients", 2017, Vol.9 (11), p.1215. The abstract snippet reads: "... and would be better tolerated than yeast fermented wheat bread for subjects with IBS who have a non-symptomatic".

